

Donadei V, Koivuluoto H, Sarlin E, Vuoristo P. **Lubricated icephobic coatings prepared by flame spraying with hybrid feedstock injection.** Surface and Coatings Technology. 2020 joulu 15;403. 126396. <https://doi.org/10.1016/j.surfcoat.2020.126396>

Sarlin E, Honkanen M, Lindgren M, Laihonon P, Juutilainen M, Vippola M et al. **The effect of substrate pre-treatment on durability of rubber-stainless steel adhesion.** Surfaces and Interfaces. 2020 joulu 1;21. 100646. <https://doi.org/10.1016/j.surfin.2020.100646>

Juoksukangas J, Hintikka J, Lehtovaara A, Mäntylä A, Vaara J, Frondelius T. **Avoiding the initial adhesive friction peak in fretting.** Wear. 2020 marras 15;460-461. 203353. <https://doi.org/10.1016/j.wear.2020.203353>

Haiko O, Kaikkonen P, Somani M, Valtonen K, Kömi J. **Characteristics of carbide-free medium-carbon bainitic steels in high-stress abrasive wear conditions.** Wear. 2020 syys 15;456-457. 203386. <https://doi.org/10.1016/j.wear.2020.203386>

Ojha N, Bogdan M, Galatus R, Petit L. **Effect of heat-treatment on the upconversion of NaYF₄:Yb³⁺, Er³⁺ nanocrystals containing silver phosphate glass.** Journal of Non-Crystalline Solids. 2020 syys 15;544. 120243. <https://doi.org/10.1016/j.jnoncrysol.2020.120243>

Olżyńska A, Kulig W, Mikkolainen H, Czerniak T, Jurkiewicz P, Cwiklik L et al. **Tail-Oxidized Cholesterol Enhances Membrane Permeability for Small Solutes.** Langmuir. 2020 syys 8;36(35):10438-10447. <https://doi.org/10.1021/acs.langmuir.0c01590>

Zahra M, Kempf I, Haarla J, Antonov Y, Khonsari Z, Miilunpalo T et al. **A 2-5.5 GHz Beamsteering Receiver IC with 4-Element Vivaldi Antenna Array.** IEEE Transactions on Microwave Theory and Techniques. 2020 syys 1;68(9):3852-3860. <https://doi.org/10.1109/TMTT.2020.2986754>

Waheed MZ, Korpi D, Anttila L, Kiayani A, Kosunen M, Stadius K et al. **Passive Intermodulation in Simultaneous Transmit-Receive Systems: Modeling and Digital Cancellation Methods.** IEEE Transactions on Microwave Theory and Techniques. 2020 syys 1;68(9):3633-3652. <https://doi.org/10.1109/TMTT.2020.2996206>

Haiko O, Javaheri V, Valtonen K, Kajjalainen A, Hannula J, Kömi J. **Effect of prior austenite grain size on the abrasive wear resistance of ultra-high strength martensitic steels.** Wear. 2020 elo 15;454-455. 203336. <https://doi.org/10.1016/j.wear.2020.203336>

Truong KN, Rautiainen JM, Rissanen K, Puttreddy R. **The C-I⁻...O-N⁺ Halogen Bonds with Tetraiodoethylene and Aromatic N-Oxides.** Crystal Growth and Design. 2020 elo 5;20(8):5330-5337. <https://doi.org/10.1021/acs.cgd.0c00560>

Zhao J, Stenvall A, Gao Y, Salmi T. **Analytical and Numerical Methods to Estimate the Effective Mechanical Properties of Rutherford Cables.** IEEE Transactions on Applied Superconductivity. 2020 elo 1;30(5). 8400808. <https://doi.org/10.1109/TASC.2020.2968924>

Nechay K, Mereuta A, Paranthoen C, Brevalle G, Levallois C, Alouini M et al. **High-Power 760 nm VECSEL Based on Quantum Dot Gain Mirror.** IEEE journal of quantum electronics. 2020 elo 1;56(4). <https://doi.org/10.1109/JQE.2020.2986770>

Brihuega A, Anttila L, Valkama M. **Neural-Network-Based Digital Predistortion for Active Antenna Arrays under Load Modulation.** IEEE Microwave and Wireless Components Letters. 2020 elo 1;30(8):843-846. <https://doi.org/10.1109/LMWC.2020.3004003>

Lahtinen V, Stenvall A. **Semantics of HTS AC Loss Modeling: Theories, Models, and Experiments.** IEEE Transactions on Applied Superconductivity. 2020 elo 1;30(5). 5900809. <https://doi.org/10.1109/TASC.2020.2976619>

Lahikainen M, Zeng H, Priimagi A. **Design principles for non-reciprocal photomechanical actuation.** *Soft Matter*. 2020 heinä 7;16(25):5951-5958. <https://doi.org/10.1039/d0sm00624f>

Sharma RO, Rantala TT, Hoggan PE. **Selective hydrogen production at Pt(111) investigated by Quantum Monte Carlo methods for metal catalysis.** *International Journal of Quantum Chemistry*. 2020 kesä 5;120(11). e26198. <https://doi.org/10.1002/qua.26198>

Baratto C, Golovanova V, Faglia G, Hakola H, Niemi T, Tkachenko N et al. **On the alignment of ZnO nanowires by Langmuir – Blodgett technique for sensing application.** *Applied Surface Science*. 2020 loka 30;528. 146959. <https://doi.org/10.1016/j.apsusc.2020.146959>

Matikainen V, Koivuluoto H, Vuoristo P. **A study of Cr₃C₂-based HVOF- and HVOF-sprayed coatings: Abrasion, dry particle erosion and cavitation erosion resistance.** *Wear*. 2020 huhti 15;446-447. 203188. <https://doi.org/10.1016/j.wear.2020.203188>

Twum K, Rautiainen JM, Yu S, Truong KN, Feder J, Rissanen K et al. **Host-Guest Interactions of Sodiumsulfonatomethylenesorscinarene and Quaternary Ammonium Halides: An Experimental-Computational Analysis of the Guest Inclusion Properties.** *Crystal Growth and Design*. 2020 huhti 1;20(4):2367-2376. <https://doi.org/10.1021/acs.cgd.9b01540>

Tainio JM, Salazar DAA, Nommeots-Nomm A, Roiland C, Bureau B, Neuville DR et al. **Structure and in vitro dissolution of Mg and Sr containing borosilicate bioactive glasses for bone tissue engineering.** *Journal of Non-Crystalline Solids*. 2020 huhti 1;533. 119893. <https://doi.org/10.1016/j.jnoncrysol.2020.119893>

Moiseev EI, Maximov MV, Kryzhanovskaya NV, Simchuk OI, Kulagina MM, Kadinskaya SA et al. **Comparative Analysis of Injection Microdisk Lasers Based on InGaAsN Quantum Wells and InAs/InGaAs Quantum Dots.** *Semiconductors*. 2020 helmi 1;54(2):263-267. <https://doi.org/10.1134/S1063782620020177>

Occhiuzzi C, Virkki J. **RFID Ladies: Spotlight on Recent Scientific and Industrial Advances of Women Engineers [Women in Engineering].** *IEEE Antennas and Propagation Magazine*. 2020 helmi 1;62(1):55-57. <https://doi.org/10.1109/MAP.2019.2957999>

Julku A, Peltonen TJ, Liang L, Heikkilä TT, Törmä P. **Superfluid weight and Berezinskii-Kosterlitz-Thouless transition temperature of twisted bilayer graphene.** *Physical Review B*. 2020 helmi 1;101(6). 060505. <https://doi.org/10.1103/PhysRevB.101.060505>

Yildiz BC, Bek A, Tasgin ME. **Plasmon lifetime enhancement in a bright-dark mode coupled system.** *Physical Review B*. 2020 tammi 16;101(3). 035416. <https://doi.org/10.1103/PhysRevB.101.035416>

Wang Y, Zhao Y, Pan Z, Suomalainen S, Härkönen A, Guina M et al. **73-fs SESAM mode-locked Tm,Ho:CNGG laser at 2061 nm.** julkaisussa Clarkson WA, Shori RK, toimittajat, Solid State Lasers XXIX: Technology and Devices. SPIE. 2020. 1125929. (Proceedings of SPIE - The International Society for Optical Engineering). <https://doi.org/10.1117/12.2548180>

Salmi T, Tarhasaari T, Izquierdo-Bermudez S. **A Database for Storing Magnet Parameters and Analysis of Quench Test Results in HL-LHC Nb₃Sn Short Model Magnets.** *IEEE Transactions on Applied Superconductivity*. 2020;30(4). 4703705. <https://doi.org/10.1109/TASC.2020.2981304>

Phung HM, Kahle H, Penttinen J-P, Rajala P, Ranta S, Guina M. **A membrane external-cavity surface-emitting laser (MECSEL) with emission around 825 nm.** julkaisussa Hastie JE, toimittaja, Vertical External Cavity Surface Emitting Lasers (VECSELs) X. SPIE. 2020. 112630H. (Proceedings of SPIE - The International Society for Optical Engineering). <https://doi.org/10.1117/12.2545980>

Kulya MS, Katkovnik V, Egiazarian K, Petrov NV. **Complex-domain sparse imaging in terahertz pulse time-domain holography with balance detection.** julkaisussa Sadwick LP, Yang T, toimittajat, Terahertz, RF, Millimeter, and Submillimeter-Wave Technology and Applications XIII. SPIE. 2020. 1127921. (Proceedings of SPIE). <https://doi.org/10.1117/12.2549001>

Evans DM, Holstad TS, Mosberg AB, Småbråten DR, Vullum PE, Dadlani AL et al. **Conductivity control via minimally invasive anti-Frenkel defects in a functional oxide**. *Nature Materials*. 2020. <https://doi.org/10.1038/s41563-020-0765-x>

Vainio M. **Continuous-wave optical parametric oscillators for mid-infrared spectroscopy**. julkaisussa Schunemann PG, Schepler KL, toimittajat, *Nonlinear Frequency Generation and Conversion: Materials and Devices XIX*. SPIE. 2020. 1126419. (Proceedings of SPIE - The International Society for Optical Engineering). <https://doi.org/10.1117/12.2548711>

Jokiaho T, Santa-aho S, Peura P, Vippola M. **Cracking and Failure Characteristics of Flame Cut Thick Steel Plates**. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*. 2020;51:1744-1754. <https://doi.org/10.1007/s11661-020-05639-x>

Nejadsattari F, Zhang Y, Jayakody MN, Bouchard F, Larocque H, Sit A et al. **Cyclic quantum walks: Photonic realization and decoherence analysis**. julkaisussa Hemmer PR, Migdall AL, Hasan ZU, toimittajat, *Advanced Optical Techniques for Quantum Information, Sensing, and Metrology*. SPIE. 2020. 1129503. (Proceedings of SPIE - The International Society for Optical Engineering). <https://doi.org/10.1117/12.2546566>

Donmez O, Aydin M, Ardali, Yildirim S, Tıraş E, Nutku F et al. **Electronic transport in n-type modulation-doped AlGaAs/GaAsBi quantum well structures: Influence of Bi and thermal annealing on electron effective mass and electron mobility**. *Semiconductor Science and Technology*. 2020;35(2). 025009. <https://doi.org/10.1088/1361-6641/ab5d8d>

Okonkwo O, Papirio S, Trably E, Escudie R, Lakaniemi A-M, Esposito G. **Enhancing thermophilic dark fermentative hydrogen production at high glucose concentrations via bioaugmentation with *Thermotoga neapolitana***. *International Journal of Hydrogen Energy*. 2020;45(35):17241-17249. <https://doi.org/10.1016/j.ijhydene.2020.04.231>

Varis T, Suhonen T, Laakso J, Jokipii M, Vuoristo P. **Evaluation of Residual Stresses and Their Influence on Cavitation Erosion Resistance of High Kinetic HVOF and HVOF-Sprayed WC-CoCr Coatings**. *Journal of Thermal Spray Technology*. 2020. <https://doi.org/10.1007/s11666-020-01037-2>

Eklund A, Zhang H, Zeng H, Priimägi A, Ikkala O. **Fast Switching of Bright Whiteness in Channeled Hydrogel Networks**. *Advanced Functional Materials*. 2020. 2000754. <https://doi.org/10.1002/adfm.202000754>

Jowett GM, Norman MDA, Yu TTL, Rosell Arévalo P, Hoogland D, Lust ST et al. **ILC1 drive intestinal epithelial and matrix remodelling**. *Nature Materials*. 2020. <https://doi.org/10.1038/s41563-020-0783-8>

Varis T, Suhonen T, Jokipii M, Vuoristo P. **Influence of powder properties on residual stresses formed in high-pressure liquid fuel HVOF sprayed WC-CoCr coatings**. *Surface and Coatings Technology*. 2020;388. 125604. <https://doi.org/10.1016/j.surfcoat.2020.125604>

Vitola V, Lahti V, Bite I, Spustaka A, Millers D, Lastusaari M et al. **Low temperature afterglow from SrAl₂O₄: Eu, Dy, B containing glass**. *Scripta Materialia*. 2020;190:86-90. <https://doi.org/10.1016/j.scriptamat.2020.08.023>

Nommeots-Nomm A, Houaoui A, Pradeepan Packiyathar A, Chen X, Hokka M, Hill R et al. **Phosphate/oxyfluorophosphate glass crystallization and its impact on dissolution and cytotoxicity**. *Materials Science and Engineering C*. 2020;117. 111269. <https://doi.org/10.1016/j.msec.2020.111269>

Donmez O, Aydin M, Ardali, Yildirim S, Tıraş E, Erol A et al. **Power loss mechanisms in n-type modulation-doped AlGaAs/GaAsBi quantum well heterostructures**. *Semiconductor Science and Technology*. 2020;35(9). 095038. <https://doi.org/10.1088/1361-6641/ab94d9>

Kulya MS, Sokolenko B, Gorodetsky A, Petrov NV. **Propagation dynamics of ultrabroadband terahertz beams with orbital angular momentum for wireless data transfer**. julkaisussa Dingel BB, Tsukamoto K, Mikroulis S, toimittajat, *Broadband Access Communication Technologies XIV*. SPIE. 2020. 113070J. (Proceedings of SPIE - The International Society for Optical Engineering). <https://doi.org/10.1117/12.2547695>

Chronopoulos A, Thorpe SD, Cortes E, Lachowski D, Rice AJ, Mykuliak VV et al. **Syndecan-4 tunes cell mechanics by activating the kindlin-integrin-RhoA pathway**. *Nature Materials*. 2020. <https://doi.org/10.1038/s41563-019-0567-1>

Saarimaa V, Kaleva A, Nikkanen JP, Levänen E, Väisänen P, Markkula A. **Time-of-flight secondary ion mass spectrometry study of zinc carbonation in the presence of stable oxygen-18 and deuterium isotopes**. *Materials Chemistry and Physics*. 2020;256. 123673. <https://doi.org/10.1016/j.matchemphys.2020.123673>

Huda MN, Kezilebieke S, Ojanen T, Drost R, Liljeroth P. **Tuneable topological domain wall states in engineered atomic chains**. *npj Quantum Materials*. 2020;5(1). 17. <https://doi.org/10.1038/s41535-020-0219-3>

Koyama C, Tahara S, Kohara S, Onodera Y, Småbråten DR, Selbach SM et al. **Very sharp diffraction peak in nonglass-forming liquid with the formation of distorted tetraclusters**. *NPG ASIA MATERIALS*. 2020;12(1). 43. <https://doi.org/10.1038/s41427-020-0220-0>

Haiko O, Valtonen K, Kaijalainen A, Uusikallio S, Hannula J, Liimatainen T et al. **Effect of tempering on the impact-abrasive and abrasive wear resistance of ultra-high strength steels**. *Wear*. 2019 joulu 15;440-441. <https://doi.org/10.1016/j.wear.2019.203098>

Dongho-Nguimdo GM, Igumbor E, Zambou S, Joubert DP. **First principles prediction of the solar cell efficiency of chalcopyrite materials $AgMX_2$ (M=In, Al; X=S, Se, Te)**. *Computational Condensed Matter*. 2019 joulu 1;21. e00391. <https://doi.org/10.1016/j.cocom.2019.e00391>

Rissanen I, Laurson L. **Bursty magnetic friction between polycrystalline thin films with domain walls**. *Physical Review B*. 2019 loka 4;100(14). 144408. <https://doi.org/10.1103/PhysRevB.100.144408>

Vetter C, Steinkopf R, Bergner K, Ornigotti M, Nolte S, Gross H et al. **Realization of Free-Space Long-Distance Self-Healing Bessel Beams**. *Laser and Photonics Reviews*. 2019 loka 1;13(10). 1900103. <https://doi.org/10.1002/lpor.201900103>

Skaugen A, Murray P, Laurson L. **Analytical computation of the demagnetizing energy of thin-film domain walls**. *Physical Review B*. 2019 syys 25;100(9). 094440. <https://doi.org/10.1103/PhysRevB.100.094440>

Reshef O, Saad-Bin-Alam M, Huttunen MJ, Carlow G, Sullivan BT, Ménard JM et al. **Multiresonant High-Q Plasmonic Metasurfaces**. *Nano Letters*. 2019 syys 11;19(9):6429-6434. <https://doi.org/10.1021/acs.nanolett.9b02638>

Kiilakoski J, Langlade C, Koivuluoto H, Vuoristo P. **Characterizing the micro-impact fatigue behavior of APS and HVOF-sprayed ceramic coatings**. *Surface and Coatings Technology*. 2019 elo 15;371:245-254. <https://doi.org/10.1016/j.surfcoat.2018.10.097>

Rissanen I, Laurson L. **Magnetic non-contact friction from domain wall dynamics actuated by oscillatory mechanical motion**. *Journal of Physics D: Applied Physics*. 2019 elo 13;52(44). 445002. <https://doi.org/10.1088/1361-6463/ab351f>

Ruuskanen J, Stenvall A, Lahtinen V, Nugteren JV, Kirby G, Murtomäki J. **Modelling thermodynamics in a high erature superconducting dipole magnet: An inverse problem based approach**. *Superconductor Science and Technology*. 2019 elo 2;32(9). 094007. <https://doi.org/10.1088/1361-6668/ab2bc9>

Murtomäki JS, Van Nugteren J, Stenvall A, Kirby G, Rossi L. **3-D mechanical modeling of 20 T HTS clover leaf end coils - Good practices and lessons learned**. *IEEE Transactions on Applied Superconductivity*. 2019 elo 1;29(5). 8642381. <https://doi.org/10.1109/TASC.2019.2899317>

Lorin C, Fleiter J, Salmi T, Schoerling D. **Exploration of Two Layer Nb_3Sn Designs of the Future Circular Collider Main Quadrupoles**. *IEEE Transactions on Applied Superconductivity*. 2019 elo 1;29(5). 4001005. <https://doi.org/10.1109/TASC.2019.2892814>

Matikainen V, Rubio Peregrina S, Ojala N, Koivuluoto H, Schubert J, Houdková et al. **Erosion wear performance of WC-10Co4Cr and Cr₃C₂-25NiCr coatings sprayed with high-velocity thermal spray processes.** Surface and Coatings Technology. 2019 heinä 25;370:196-212. <https://doi.org/10.1016/j.surfcoat.2019.04.067>

Kezilebieke S, Žitko R, Dvorak M, Ojanen T, Liljeroth P. **Observation of Coexistence of Yu-Shiba-Rusinov States and Spin-Flip Excitations.** Nano Letters. 2019 heinä 10;19(7):4614-4619. <https://doi.org/10.1021/acs.nanolett.9b01583>

Ghalibaf M, Doddapaneni TRKC, Alén R. **Pyrolytic behavior of lignocellulosic-based polysaccharides.** Journal of Thermal Analysis and Calorimetry. 2019 heinä;137(1):121-131. <https://doi.org/10.1007/s10973-018-7919-y>

Hilka J, Koivusalo E, Puustinen J, Suomalainen S, Guina M. **Epitaxial phases of high Bi content GaSbBi alloys.** Journal of Crystal Growth. 2019 kesä 15;516:67-71. <https://doi.org/10.1016/j.jcrysgro.2019.03.028>

Chintha AR, Valtonen K, Kuokkala VT, Kundu S, Peet MJ, Bhadeshia HKDH. **Role of fracture toughness in impact-abrasion wear.** Wear. 2019 kesä 15;428-429:430-437. <https://doi.org/10.1016/j.wear.2019.03.028>

Sautter JD, Xu L, Miroshnichenko AE, Lysevych M, Volkovskaya I, Smirnova DA et al. **Tailoring Second-Harmonic Emission from (111)-GaAs Nanoantennas.** Nano Letters. 2019 kesä 12;19(6):3905-3911. <https://doi.org/10.1021/acs.nanolett.9b01112>

Sariola V. **Analytical Expressions for Spring Constants of Capillary Bridges and Snap-in Forces of Hydrophobic Surfaces.** Langmuir. 2019 kesä 4;35(22):7129-7135. <https://doi.org/10.1021/acs.langmuir.9b00152>

Lai Y, Zhang H, Sugano Y, Xie H, Kallio P. **Correlation of Surface Morphology and Interfacial Adhesive Behavior between Cellulose Surfaces: Quantitative Measurements in Peak-Force Mode with the Colloidal Probe Technique.** Langmuir. 2019 kesä 4;35(22):7312-7321. <https://doi.org/10.1021/acs.langmuir.8b03503>

Vuornos K, Ojansivu M, Koivisto JT, Häkkänen H, Belay B, Montonen T et al. **Bioactive glass ions induce efficient osteogenic differentiation of human adipose stem cells encapsulated in gellan gum and collagen type I hydrogels.** Materials Science and Engineering C. 2019 kesä 1;99:905-918. <https://doi.org/10.1016/j.msec.2019.02.035>

Ayir N, Trujillo Fierro MF, Riihonen T, Allen M. **Experimenting Waveforms and Efficiency in RF Power Transfer.** julkaisussa 2019 IEEE MTT-S International Microwave Symposium, IMS 2019. IEEE. 2019. s. 1140-1143. (IEEE MTT-S International Microwave Symposium Digest). <https://doi.org/10.1109/MWSYM.2019.8700791>

Salmi T, Schoerling D. **Energy density-method: An approach for a quick estimation of quench temperatures in high-field accelerator magnets.** IEEE Transactions on Applied Superconductivity. 2019 kesä;29(4). <https://doi.org/10.1109/TASC.2018.2880340>

Hütner J, Herranen T, Laurson L. **Multistep Bloch-line-mediated Walker breakdown in ferromagnetic strips.** Physical Review B. 2019 touko 24;99(17). 174427. <https://doi.org/10.1103/PhysRevB.99.174427>

Trainer DJ, Putilov AV, Wang B, Lane C, Saari T, Chang TR et al. **Moiré superlattices and 2D electronic properties of graphite/MoS₂ heterostructures.** Journal of Physics and Chemistry of Solids. 2019 touko;128:325-330. <https://doi.org/10.1016/j.jpcs.2017.10.034>

Saari T, Nieminen J. **Spin filtering in silicene by edges and chemically or electrically induced interfaces.** Journal of Physics and Chemistry of Solids. 2019 touko;128:316-324. <https://doi.org/10.1016/j.jpcs.2017.12.037>

Valtonen K, Ojala N, Haiko O, Kuokkala V-T. **Comparison of various high-stress wear conditions and wear performance of martensitic steels.** Wear. 2019 huhti 30;426-427(Part A):3-13. <https://doi.org/10.1016/j.wear.2018.12.006>

Kulig W, Korolainen H, Zatorska M, Kwolek U, Wydro P, Kepczynski M et al. **Complex Behavior of Phosphatidylcholine-Phosphatidic Acid Bilayers and Monolayers: Effect of Acyl Chain Unsaturation.** Langmuir. 2019 huhti 30;35(17):5944-5956. <https://doi.org/10.1021/acs.langmuir.9b00381>

Minarelli EL, Poyhönen K, Van Dalum GAR, Ojanen T, Fritz L. **Engineering of Chern insulators and circuits of topological edge states.** Physical Review B. 2019 huhti 10;99(16). 165413. <https://doi.org/10.1103/PhysRevB.99.165413>

Puustinen J, Hilska J, Guina M. **Analysis of GaAsBi growth regimes in high resolution with respect to As/Ga ratio using stationary MBE growth.** Journal of Crystal Growth. 2019 huhti 1;511:33-41. <https://doi.org/10.1016/j.jcrysgro.2019.01.010>

Guandalini A, Rozzi CA, Räsänen E, Pittalis S. **Fundamental gaps of quantum dots on the cheap.** Physical Review B. 2019 maaliskuu 25;99(12). 125140. <https://doi.org/10.1103/PhysRevB.99.125140>

Murakami M, Kohara S, Kitamura N, Akola J, Inoue H, Hirata A et al. **Ultrahigh-pressure form of SiO₂ glass with dense pyrite-type crystalline homology.** Physical Review B. 2019 tammi 29;99(4). 045153. <https://doi.org/10.1103/PhysRevB.99.045153>

van Nugteren J, Murtomäki J, Ruuskanen J, Kirby G, Hagen P, DeRijk G et al. **A Fast Quench Protection System for High-Temperature Superconducting Magnets.** IEEE Transactions on Applied Superconductivity. 2019 tammi;29(1). 4700108. <https://doi.org/10.1109/TASC.2018.2848229>

Kiilakoski J, Puranen J, Heinonen E, Koivuluoto H, Vuoristo P. **Characterization of Powder-Precursor HVOF-Sprayed Al₂O₃-YSZ/ZrO₂ Coatings.** Journal of Thermal Spray Technology. 2019 tammi;28(1-2):98-107. <https://doi.org/10.1007/s11666-018-0816-x>

Viheriälä J, Tuorila H, Zia N, Cherchi M, Aalto T, Guina M. **1.3µm U-bend traveling wave SOA devices for high efficiency coupling to silicon photonics.** julkaisussa Reed GT, Knights AP, toimittajat, Silicon Photonics XIV. SPIE, IEEE. 2019. 109230E. (Proceedings of SPIE - The International Society for Optical Engineering). <https://doi.org/10.1117/12.2505935>

Mereuta A, Nechay K, Caliman A, Suruceanu G, Gallo P, Guina M et al. **1.55-µm wavelength wafer-fused OP-VECSELs in flip-chip configuration.** julkaisussa Keller U, toimittaja, Vertical External Cavity Surface Emitting Lasers (VECSELs) IX. SPIE, IEEE. 2019. 1090103. (Proceedings of SPIE - The International Society for Optical Engineering). <https://doi.org/10.1117/12.2508342>

Yadav A, Chichkov NB, Gumenyuk R, Zherebtsov E, Melkumov MA, Yashkov MV et al. **405-nm pumped Ce³⁺-doped silica fiber for broadband fluorescence from cyan to red.** julkaisussa Digonnet MJF, Jiang S, toimittajat, Optical Components and Materials XVI. SPIE, IEEE. 2019. 1091406. (Proceedings of SPIE - The International Society for Optical Engineering). <https://doi.org/10.1117/12.2509599>

Zakeri FS, Bätz M, Jaschke T, Keinert J, Chuchvara A. **Benchmarking of several disparity estimation algorithms for light field processing.** julkaisussa Bazeille S, Verrier N, Cudel C, toimittajat, Fourteenth International Conference on Quality Control by Artificial Vision. SPIE, IEEE. 2019. 111721C. (Proceedings of SPIE - The International Society for Optical Engineering). <https://doi.org/10.1117/12.2521747>

Gonçalves LPL, Wang J, Vinati S, Barborini E, Wei XK, Heggen M et al. **Combined experimental and theoretical study of acetylene semi-hydrogenation over Pd/Al₂O₃.** International Journal of Hydrogen Energy. 2019. <https://doi.org/10.1016/j.ijhydene.2019.04.086>

Orelma H. **Continuum approach to high-cycle fatigue. The finite life-time case with stochastic stress history.** Vestnik Samarskogo Gosudarstvennogo Tekhnicheskogo Universiteta, Seriya Fiziko-Matematicheskie Nauki. 2019;23(3):452-463. <https://doi.org/10.14498/vsgtu1705>

Väläkangas T, Hærvig J, Kuuluvainen H, Dal Maso M, Peltonen P, Vuorinen V. **Deposition of dry particles on a fin-and-tube heat exchanger by a coupled soft-sphere DEM and CFD.** International Journal of Heat and Mass Transfer. 2019. 119046. <https://doi.org/10.1016/j.ijheatmasstransfer.2019.119046>

Houaoui A, Lyyra I, Agniel R, Pauthe E, Massera J, Boissière M. **Dissolution, bioactivity and osteogenic properties of composites based on polymer and silicate or borosilicate bioactive glass.** Materials Science and Engineering C. 2019;107. 110340. <https://doi.org/10.1016/j.msec.2019.110340>

Kahle H, Penttinen JP, Phung HM, Rajala P, Tukiainen A, Ranta S et al. **MECSELs with direct emission in the 760 nm to 810 nm spectral range: A single- and double-side pumping comparison and high-power continuous-wave operation.** julkaisussa Keller U, toimittaja, Vertical External Cavity Surface Emitting Lasers (VECSELs) IX. SPIE, IEEE. 2019. 109010D. (Proceedings of SPIE - The International Society for Optical Engineering). <https://doi.org/10.1117/12.2512111>

Järvinen H, Honkanen M, Oja O, Järvenpää M, Peura P. **Microstructure-property relationships of novel ultra-high strength press hardening steels.** Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science. 2019;50(2):816-836. <https://doi.org/10.1007/s11661-018-4967-7>

Radevici I, Sadi T, Tripurari T, Tiira J, Ranta S, Tukiainen A et al. **Observation of local electroluminescent cooling and identifying the remaining challenges.** julkaisussa Seletskiy DV, Epstein RI, Sheik-Bahae M, toimittajat, Photonic Heat Engines: Science and Applications. SPIE, IEEE. 2019. 109360A. (Proceedings of SPIE - The International Society for Optical Engineering). <https://doi.org/10.1117/12.2505814>

Kiilakoski J, Trache R, Björklund S, Joshi S, Vuoristo P. **Process Parameter Impact on Suspension-HVOF-Sprayed Cr₂O₃ Coatings.** Journal of Thermal Spray Technology. 2019. <https://doi.org/10.1007/s11666-019-00940-7>

Jokiaho T, Santa-aho S, Peura P, Vippola M. **Role of Steel Plate Thickness on the Residual Stress Formation and Cracking Behavior During Flame Cutting.** Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science. 2019. <https://doi.org/10.1007/s11661-019-05314-w>

Saleh A, Ryczkowski P, Genty G, Toivonen J. **Short-range supercontinuum based lidar for combustion diagnostics.** julkaisussa Kimata M, Valenta CR, toimittajat, SPIE Future Sensing Technologies. SPIE, IEEE. 2019. 111970Y. (Proceedings of SPIE). <https://doi.org/10.1117/12.2542720>

Kocsis P, Shevkunov I, Katkovnik V, Egiazarian K. **Single exposure lensless subpixel phase imaging.** julkaisussa Kress BC, Schelkens P, toimittajat, Digital Optical Technologies 2019. SPIE, IEEE. 2019. (Proceedings of SPIE - The International Society for Optical Engineering). <https://doi.org/10.1117/12.2525679>

Xu L, Saerens G, Timofeeva M, Miroshnichenko AE, Camacho-Morales R, Volkovskaya I et al. **Switchable unidirectional second-harmonic emission through GaAs nanoantennas.** julkaisussa Mitchell A, Rubinsztein-Dunlop H, toimittajat, AOS Australian Conference on Optical Fibre Technology, ACOFT 2019 and Australian Conference on Optics, Lasers, and Spectroscopy, ACOLS 2019. SPIE. 2019. 112000J. (Proceedings of SPIE - The International Society for Optical Engineering). <https://doi.org/10.1117/12.2539887>

Sautter J, Xu L, Miroshnichenko A, Lysevych M, Volkovskaya I, Smirnova D et al. **Tailoring directional scattering of second-harmonic generation from (111)-GaAs nanoantennas.** julkaisussa Mitchell A, Rubinsztein-Dunlop H, toimittajat, AOS Australian Conference on Optical Fibre Technology, ACOFT 2019 and Australian Conference on Optics, Lasers, and Spectroscopy, ACOLS 2019. SPIE. 2019. 112000H. (Proceedings of SPIE - The International Society for Optical Engineering). <https://doi.org/10.1117/12.2539086>

Joost U, Sutka A, Oja M, Smits K, Doebelin N, Loot A et al. **Reversible photodoping of TiO₂ nanoparticles.** Chemistry of Materials. 2018 joulu 26;30(24):8968-8974. <https://doi.org/10.1021/acs.chemmater.8b04813>

Czaplicki R, Kiviniemi A, Huttunen MJ, Zang X, Stolt T, Vartiainen I et al. **Less Is More: Enhancement of Second-Harmonic Generation from Metasurfaces by Reduced Nanoparticle Density.** Nano Letters. 2018 joulu 12;18(12):7709-7714. <https://doi.org/10.1021/acs.nanolett.8b03378>

Murtomäki JS, van Nugteren J, Kirby G, DeRijk G, Rossi L, Stenvall A. **ICED - Inductively Coupled Energy Dissipater for Future High Field Accelerator Magnets**. IEEE Transactions on Applied Superconductivity. 2018 joulu;28(8). 4009015. <https://doi.org/10.1109/TASC.2018.2841909>

Gunes M, Ukelge MO, Donmez O, Erol A, Gumus C, Alghamdi H et al. **Optical properties of GaAs_{1-x}Bi_x/GaAs quantum well structures grown by molecular beam epitaxy on (100) and (311)B GaAs substrates**. Semiconductor Science and Technology. 2018 marras 13;33(12). 124015. <https://doi.org/10.1088/1361-6641/aaea2e>

Hegele LA, Scagliarini A, Sbragaglia M, Mattila KK, Philippi PC, Puleri DF et al. **High-Reynolds-number turbulent cavity flow using the lattice Boltzmann method**. Physical Review E. 2018 loka 4;98(4). 043302. <https://doi.org/10.1103/PhysRevE.98.043302>

Ponomarenko M, Egiazarian K, Lukin V, Abramova V. **Structural Similarity Index with Predictability of Image Blocks**. julkaisussa 2018 IEEE 17th International Conference on Mathematical Methods in Electromagnetic Theory, MMET 2018 - Proceedings. Vuosikerta 2018-July. IEEE COMPUTER SOCIETY PRESS. 2018. s. 115-118. 8460285 <https://doi.org/10.1109/MMET.2018.8460285>

Aho A, Isoaho R, Tukiainen A, Gori G, Campesato R, Guina M. **Dilute nitride triple junction solar cells for space applications: Progress towards highest AMO efficiency**. Progress in Photovoltaics: Research and Applications. 2018 syys;26(19):740-744. <https://doi.org/10.1002/pip.3011>

Sippola P, Kolehmainen J, Ozel A, Liu X, Saarenrinne P, Sundaresan S. **Experimental and numerical study of wall layer development in a tribocharged fluidized bed**. Journal of Fluid Mechanics. 2018 elo 25;849:860-884. <https://doi.org/10.1017/jfm.2018.412>

Sajna MS, Perumbilavil S, Prakashan VP, Sanu MS, Joseph C, Biju PR et al. **Enhanced resonant nonlinear absorption and optical limiting in Er³⁺ ions doped multicomponent tellurite glasses**. Materials Research Bulletin. 2018 elo 1;104:227-235. <https://doi.org/10.1016/j.materresbull.2018.04.026>

Cemlyn B, Adams M, Harbord E, Li N, Henning ID, Oulton R et al. **Near-threshold high spin amplification in a 1300 nm GaInNAs spin laser**. Semiconductor Science and Technology. 2018 elo 1;33(9). 094005. <https://doi.org/10.1088/1361-6641/aad42e>

Lampio K, Karvinen R. **A new method to optimize natural convection heat sinks**. Heat and Mass Transfer/Waerme- und Stoffuebertragung. 2018 elo;54(8):2571-2580. <https://doi.org/10.1007/s00231-017-2106-4>

Prando GA, Orsi Gordo V, Puustinen J, Hilska J, Alghamdi HM, Som G et al. **Exciton localization and structural disorder of GaAs_{1-x}Bi_x/GaAs quantum wells grown by molecular beam epitaxy on (311)B GaAs substrates**. Semiconductor Science and Technology. 2018 heinä 17;33(8). 084002. <https://doi.org/10.1088/1361-6641/aad02e>

Zhao J, Prioli M, Stenvall A, Salmi T, Gao Y, Caiffi B et al. **Mechanical stress analysis during a quench in CLIQ protected 16 T dipole magnets designed for the future circular collider**. Physica C: Superconductivity and its Applications. 2018 heinä 15;550:27-34. <https://doi.org/10.1016/j.physc.2018.04.003>

Mikkonen R, Mäntysalo M. **Evaluation of screen printed silver trace performance and long-term reliability against environmental stress on a low surface energy substrate**. Microelectronics Reliability. 2018 heinä 1;86:54-65. <https://doi.org/10.1016/j.microrel.2018.05.010>

Roldán Del Cerro P, Salminen T, Lastusaari M, Petit L. **Persistent luminescent borosilicate glasses using direct particles doping method**. Scripta Materialia. 2018 heinä 1;151:38-41. <https://doi.org/10.1016/j.scriptamat.2018.03.034>

Todesco E, Annarella M, Ambrosio G, Apollinari G, Ballarino A, Bajas H et al. **Progress on HL-LHC Nb₃Sn Magnets**. IEEE Transactions on Applied Superconductivity. 2018 kesä 1;28(4). 4008809. <https://doi.org/10.1109/TASC.2018.2830703>

Murtomäki JS, Kouhia R, Stenvall A, Bottura L, Kirby G, van Nugteren J et al. **Investigation of REBCO Roebel Cable Irreversible Critical Current Degradation Under Transverse Pressure**. IEEE Transactions on Applied Superconductivity. 2018 kesä;28(4). 4802506. <https://doi.org/10.1109/TASC.2018.2829150>

van Nugteren J, Kirby G, Murtomaki J, DeRijk G, Rossi L, Stenvall A. **Towards REBCO 20T+ Dipoles for Accelerators**. IEEE Transactions on Applied Superconductivity. 2018 kesä;28(4). 4008509. <https://doi.org/10.1109/TASC.2018.2820177>

Rasappa S, Schulte L, Borah D, Hulkkonen H, Ndoni S, Salminen T et al. **Morphology evolution of PS-b-PDMS block copolymer and its hierarchical directed self-assembly on block copolymer templates**. Microelectronic Engineering. 2018 touko 15;192:1-7. <https://doi.org/10.1016/j.mee.2018.02.002>

Dessi P, Porca E, Frunzo L, Lakaniemi A-M, Collins G, Esposito G et al. **Inoculum pretreatment differentially affects the active microbial community performing mesophilic and thermophilic dark fermentation of xylose**. International Journal of Hydrogen Energy. 2018 touko 10;43(19):9233-9245. <https://doi.org/10.1016/j.ijhydene.2018.03.117>

Sarcan F, Mutlu S, Cokduygulular E, Donmez O, Erol A, Puustinen J et al. **A study of electric transport in n- and p-type modulation-doped GaInNAs/GaAs quantum well structures under a high electric field**. Semiconductor Science and Technology. 2018 touko 4;33(6). 064003. <https://doi.org/10.1088/1361-6641/aabc39>

Sutka A, Timusk M, Joost U, Ignatans R, Maiorov M. **Switchable light reflectance in dilute magneto-optical colloids based on nickel ferrite nanowires**. e-Journal of Surface Science and Nanotechnology. 2018 touko 2;16:119-121. <https://doi.org/10.1380/ejssnt.2018.119>

Nugteren JV, Kirby G, Bajas H, Bajko M, Ballarino A, Bottura L et al. **Powering of an HTS dipole insert-magnet operated standalone in helium gas between 5 and 85 K**. Superconductor Science and Technology. 2018 huhti 25;31(6). 065002. <https://doi.org/10.1088/1361-6668/aab887>

Matikainen V, Koivuluoto H, Vuoristo P, Schubert J, Houdková. **Effect of nozzle geometry on the microstructure and properties of hvaf-sprayed wc-10co4cr and cr3c2-25nicr coatings**. Journal of Thermal Spray Technology. 2018 huhti 1;27(4):680-694. <https://doi.org/10.1007/s11666-018-0717-z>

Ruuskanen J, Stenvall A, Van Nugteren J, Lahtinen V. **Optimization of an E3SPreSSO Energy-Extraction System for High-Field Superconducting Magnets**. IEEE Transactions on Applied Superconductivity. 2018 huhti 1;28(3). 4700805. <https://doi.org/10.1109/TASC.2018.2794457>

Petronijevic E, Leahu G, Belardini A, Centini M, Li Voti R, Hakkarainen T et al. **Photo-Acoustic Spectroscopy Reveals Extrinsic Optical Chirality in GaAs-Based Nanowires Partially Covered with Gold**. International Journal of Thermophysics. 2018 huhti 1;39(4). 46. <https://doi.org/10.1007/s10765-018-2367-2>

Koivusalo L, Karvinen J, Sorsa E, Jönkkäri I, Väliäho J, Kallio P et al. **Hydrazone crosslinked hyaluronan-based hydrogels for therapeutic delivery of adipose stem cells to treat corneal defects**. Materials Science and Engineering C. 2018 huhti;85:68-78. <https://doi.org/10.1016/j.msec.2017.12.013>

Rossi L, Badel A, Bajas H, Bajko M, Ballarino A, Barth C et al. **The EuCARD2 Future Magnets Program for particle accelerator high field dipoles: review of results and next steps**. IEEE Transactions on Applied Superconductivity. 2018 huhti;28(3). <https://doi.org/10.1109/TASC.2017.2784357>

Sassatelli P, Bolelli G, Lassinanti Gualtieri M, Heinonen E, Honkanen M, Lusvarghi L et al. **Properties of HVOF-sprayed Stellite-6 coatings**. Surface and Coatings Technology. 2018 maaliskuu 25;338:45-62. <https://doi.org/10.1016/j.surfcoat.2018.01.078>

Janka L, Berger LM, Norpoth J, Trache R, Thiele S, Tomastik C et al. **Improving the high temperature abrasion resistance of thermally sprayed Cr₃C₂-NiCr coatings by WC addition**. Surface and Coatings Technology. 2018 maaliskuu 15;337:296-305. <https://doi.org/10.1016/j.surfcoat.2018.01.035>

Petronijevic E, Leahu G, Belardini A, Centini M, Li Voti R, Hakkarainen T et al. **Resonant Absorption in GaAs-Based Nanowires by Means of Photo-Acoustic Spectroscopy**. International Journal of Thermophysics. 2018 maaliskuu 1;39(3). 45. <https://doi.org/10.1007/s10765-018-2365-4>

Barreca D, Carraro G, Maccato C, Altantzis T, Kaunisto K, Gasparotto A. **Controlled Growth of Supported ZnO Inverted Nanopyramids with Downward Pointing Tips**. Crystal Growth and Design. 2018 helmikuu;18(4):2579-2587. <https://doi.org/10.1021/acs.cgd.8b00198>

Katkovnik V, Shevkunov I, Petrov NV, Eguiazarian K. **Multiwavelength surface contouring from phase-coded diffraction patterns**. julkaisussa Unconventional Optical Imaging 2018. Strasbourg, France. SPIE. 2018. 106771B. (Proceedings of SPIE - The International Society for Optical Engineering). <https://doi.org/10.1117/12.2306127>

Noronen T, Fedotov A, Rissanen J, Gumenyuk R, Butov O, Chamorovskii Y et al. **Ultra-large mode area single frequency anisotropic MOPA with double clad Yb-doped tapered fiber**. julkaisussa Fiber Lasers XV: Technology and Systems. SPIE, IEEE. 2018. 105121T. (Proceedings of SPIE). <https://doi.org/10.1117/12.2288942>

Murtomaeki JS, Kirby G, van Nugteren J, Contat PA, Fleiter J, De Frutos OS et al. **10 kA Joints for HTS Roebel Cables**. IEEE Transactions on Applied Superconductivity. 2018;28(3). <https://doi.org/10.1109/TASC.2018.2804951>

Voronin V, Pismenskova M, Zelensky A, Cen Y, Nadykto A, Eguiazarian K. **Action recognition using the 3D dense microblock difference**. julkaisussa Counterterrorism, Crime Fighting, Forensics, and Surveillance Technologies II. SPIE. 2018. 108020O. (Proceedings of SPIE). <https://doi.org/10.1117/12.2326801>

Glorieux B, Salminen T, Massera J, Lastusaari M, Petit L. **Better understanding of the role of SiO₂, P₂O₅ and Al₂O₃ on the spectroscopic properties of Yb³⁺ doped silica sol-gel glasses**. Journal of Non-Crystalline Solids. 2018;482:46-51. <https://doi.org/10.1016/j.jnoncrysol.2017.12.021>

Väläkangas T, Karvinen R. **Conjugated Heat Transfer Simulation of a Fin-and-Tube Heat Exchanger**. Heat Transfer Engineering. 2018;39(13-14):1192-1200. <https://doi.org/10.1080/01457632.2017.1363628>

Saarimaa V, Kaleva A, Paunikallio T, Nikkanen J-P, Heinonen S, Levänen E et al. **Convenient extraction method for quantification of thin zinc patina layers**. Surface and Interface Analysis. 2018;50(5):564-570. <https://doi.org/10.1002/sia.6429>

Lorin C, Simon D, Felice H, Rifflet JM, Salmi T, Schoerling D. **Design of a Nb₃Sn 400 T/m quadrupole for the Future Circular Collider**. IEEE Transactions on Applied Superconductivity. 2018;28(3). 4004905. <https://doi.org/10.1109/TASC.2018.2797945>

Ali S, Orell O, Kanerva M, Hannula SP. **Effect of Morphology and Crystal Structure on the Thermal Conductivity of Titania Nanotubes**. Nanoscale Research Letters. 2018;13. 212. <https://doi.org/10.1186/s11671-018-2613-3>

Väläkangas T, Singh S, Sørensen K, Condra T. **Fin-and-tube heat exchanger enhancement with a combined herringbone and vortex generator design**. International Journal of Heat and Mass Transfer. 2018;118:602-616. <https://doi.org/10.1016/j.ijheatmasstransfer.2017.11.006>

Mateos X, Loiko P, Lamrini S, Scholle K, Fuhrberg P, Suomalainen S et al. **Highly-efficient Ho:KY(WO₄)₂ thin-disk lasers at 2.06 μm**. julkaisussa Pacific-Rim Laser Damage 2018: Optical Materials for High-Power Lasers. SPIE, IEEE. 2018. 107130J. (Proceedings of SPIE). <https://doi.org/10.1117/12.2316822>

Karioja P, Alajoki T, Cherchi M, Ollila J, Harjanne M, Heinilehto N et al. **Integrated multi-wavelength mid-IR light source for gas sensing**. julkaisussa Next-Generation Spectroscopic Technologies XI. SPIE, IEEE. 2018. 106570A. (SPIE Conference Proceedings). <https://doi.org/10.1117/12.2305712>

Toral F, Munilla J, Salmi T. **Magnetic and mechanical design of a 16 T common coil dipole for FCC.** IEEE Transactions on Applied Superconductivity. 2018;28(3). 4004305. <https://doi.org/10.1109/TASC.2018.2797909>

Rajan R, Rainosalto E, Thomas SP, Ramamoorthy SK, Zavašnik J, Vuorinen J et al. **Modification of epoxy resin by silane-coupling agent to improve tensile properties of viscose fabric composites.** Polymer Bulletin. 2018;75(1):167–195. <https://doi.org/10.1007/s00289-017-2022-2>

Koivuluoto H, Matikainen V, Larjo J, Vuoristo P. **Novel Online Diagnostic Analysis for In-Flight Particle Properties in Cold Spraying.** Journal of Thermal Spray Technology. 2018;27(3):423–432. <https://doi.org/10.1007/s11666-018-0685-3>

Stenvall A, Lahtinen V. **Open Material Property Library With Native Simulation Tool Integrations - MASTO.** IEEE Transactions on Applied Superconductivity. 2018. <https://doi.org/10.1109/TASC.2018.2799850>

Dessi P, Porca E, Waters NR, Lakaniemi A-M, Collins G, Lens PNL. **Thermophilic versus mesophilic dark fermentation in xylose-fed fluidised bed reactors: Biohydrogen production and active microbial community.** International Journal of Hydrogen Energy. 2018;43(11):5473-5485. <https://doi.org/10.1016/j.ijhydene.2018.01.158>

Bolelli G, Bursi M, Lusvarghi L, Manfredini T, Matikainen V, Rigon R et al. **Tribology of FeVCrC coatings deposited by HVOF and HVAF thermal spray processes.** Wear. 2018;394-395:113-133. <https://doi.org/10.1016/j.wear.2017.10.014>

Saarimaa V, Kaleva A, Nikkanen J-P, Heinonen S, Levänen E, Väisänen P et al. **Supercritical carbon dioxide treatment of hot dip galvanized steel as a surface treatment before coating.** Surface and Coatings Technology. 2017 joulou 15;331:137-142. <https://doi.org/10.1016/j.surfcoat.2017.10.047>

Santangelo PE, Allesina G, Bolelli G, Lusvarghi L, Matikainen V, Vuoristo P. **Infrared Thermography as a Non-destructive Testing Solution for Thermal Spray Metal Coatings.** Journal of Thermal Spray Technology. 2017 joulou;26(8):1982–1993. <https://doi.org/10.1007/s11666-017-0642-6>

Sarlin E, Saarimäki M, Sironen R, Lindgren M, Siljander S, Kanerva M et al. **Erosive wear of filled vinylester composites in water and acidic media at elevated temperature.** Wear. 2017 marras 15;390-391:84-92. <https://doi.org/10.1016/j.wear.2017.07.011>

Ropo M, Akola J, Jones RO. **Crystallization of supercooled liquid antimony: A density functional study.** Physical Review B. 2017 marras 3;96(18). 184102. <https://doi.org/10.1103/PhysRevB.96.184102>

Haavisto JM, Kokko ME, Lay C-H, Puhakka JA. **Effect of hydraulic retention time on continuous electricity production from xylose in up-flow microbial fuel cell.** International Journal of Hydrogen Energy. 2017 marras 1;42:27494-27502. <https://doi.org/10.1016/j.ijhydene.2017.05.068>

Chen X, Ma S, Ukkonen L, Björninen T, Virkki J. **Antennas and antenna-electronics interfaces made of conductive yarn and paint for cost-effective wearable RFIDs and sensors.** julkaisussa 2017 IEEE MTT-S International Microwave Symposium, IMS 2017. IEEE. 2017. s. 827-830 <https://doi.org/10.1109/MWSYM.2017.8058707>

He H, Tajima J, Sydanheimo L, Nishikawa H, Ukkonen L, Virkki J. **Inkjet-printed antenna-electronics interconnections in passive UHF RFID tags.** julkaisussa 2017 IEEE MTT-S International Microwave Symposium, IMS 2017. IEEE. 2017. s. 598-601 <https://doi.org/10.1109/MWSYM.2017.8058638>

Välimäki H, Verho J, Kreutzer J, Kattipparambil Rajan D, Ryyänen T, Pekkanen-Mattila M et al. **Fluorimetric oxygen sensor with an efficient optical read-out for in vitro cell models.** Sensors and Actuators B: Chemical. 2017 loka 1;249:738-746. <https://doi.org/10.1016/j.snb.2017.04.182>

Nguyen H, Tuomisto M, Oksa J, Salminen J, Lastusaari M, Petit L. **Upconversion in low rare-earth concentrated phosphate glasses using direct NaYF₄: Er³⁺, Yb³⁺ nanoparticles doping.** Scripta Materialia. 2017 loka 1;139:130-133. <https://doi.org/10.1016/j.scriptamat.2017.06.050>

Keski-Rahkonen J, Luukko PJJ, Kaplan L, Heller EJ, Räsänen E. **Controllable quantum scars in semiconductor quantum dots.** Physical Review B. 2017 syys 20;96(9). 094204. <https://doi.org/10.1103/PhysRevB.96.094204>

Isakov M, Matikainen V, Koivuluoto H, May M. **Systematic analysis of coating-substrate interactions in the presence of flow localization.** Surface and Coatings Technology. 2017 syys 15;324:264-280. <https://doi.org/10.1016/j.surfcoat.2017.05.040>

Tkalich D, Li CC, Kane A, Saai A, Tkalich D, Yastrebov VA et al. **Wear of cemented tungsten carbide percussive drill-bit inserts: Laboratory and field study.** Wear. 2017 syys 15;386-387:106-117. <https://doi.org/10.1016/j.wear.2017.05.010>

Matikainen V, Bolelli G, Koivuluoto H, Honkanen M, Vippola M, Lusvarghi L et al. **A Study of Cr₃C₂-Based HVOF- and HVOF-Sprayed Coatings: Microstructure and Carbide Retention.** Journal of Thermal Spray Technology. 2017 elo;26(6):1-18. <https://doi.org/10.1007/s11666-017-0578-x>

Alberucci A, Laudyn UA, Piccardi A, Kwasny M, Klus B, Karpierz MA et al. **Nonlinear continuous-wave optical propagation in nematic liquid crystals: Interplay between reorientational and thermal effects.** Physical Review E. 2017 heinä 11;96(1). 012703. <https://doi.org/10.1103/PhysRevE.96.012703>

Schoerling D, Durante M, Lorin C, Martinez T, Ruuskanen J, Salmi T et al. **Considerations on a Cost Model for High-Field Dipole Arc Magnets for FCC.** IEEE Transactions on Applied Superconductivity. 2017 kesä 1;27(4). 4003105. <https://doi.org/10.1109/TASC.2017.2657510>

Kirby GA, Van Nugteren J, Bajas H, Benda V, Ballarino A, Bajko M et al. **First Cold Powering Test of REBCO Roebel Wound Coil for the EuCARD2 Future Magnet Development Project.** IEEE Transactions on Applied Superconductivity. 2017 kesä 1;27(4). 4003307. <https://doi.org/10.1109/TASC.2017.2653204>

Murtomaki JS, Van Nugteren J, Kirby G, Rossi L, Ruuskanen J, Stenvall A. **Mechanical Effects of the Nonuniform Current Distribution on HTS Coils for Accelerators Wound With REBCO Roebel Cable.** IEEE Transactions on Applied Superconductivity. 2017 kesä 1;27(4). 4100405. <https://doi.org/10.1109/TASC.2017.2665882>

Marinozzi V, Bellomo G, Caiffi B, Fabbriatore P, Farinon S, Salmi T et al. **Quench Protection Study of the Eurocircol 16 T cos θ Dipole for the Future Circular Collider (FCC).** IEEE Transactions on Applied Superconductivity. 2017 kesä 1;27(4). 4702505. <https://doi.org/10.1109/TASC.2017.2656156>

Salmi T, Prioli M, Stenvall A, Ruuskanen J, Verweij AP, Auchmann B et al. **Suitability of Different Quench Protection Methods for a 16 T Block-Type Nb₃Sn Accelerator Dipole Magnet.** IEEE Transactions on Applied Superconductivity. 2017 kesä 1;27(4). 4702305. <https://doi.org/10.1109/TASC.2017.2651386>

Tommasini D, Auchmann B, Bajas H, Bajko M, Ballarino A, Bellomo G et al. **The 16 T Dipole Development Program for FCC.** IEEE Transactions on Applied Superconductivity. 2017 kesä 1;27(4). 4000405. <https://doi.org/10.1109/TASC.2016.2634600>

Piccardi A, Alberucci A, Kravets N, Buchnev O, Assanto G. **Nematicon-enhanced spontaneous symmetry breaking.** Molecular Crystals and Liquid Crystals. 2017 touko 24;649(1):59-65. <https://doi.org/10.1080/15421406.2017.1303916>

Mentink M, Salmi T. **Quench absorption coils: A quench protection concept for high-field superconducting accelerator magnets.** Superconductor Science and Technology. 2017 touko 3;30(6). 064002. <https://doi.org/10.1088/1361-6668/aa6678>

- Mattila KK, Philippi PC, Hegele LA. **High-order regularization in lattice-Boltzmann equations**. PHYSICS OF FLUIDS. 2017 huhti 1;29(4). 046103. <https://doi.org/10.1063/1.4981227>
- Lopez-Iscoa P, Petit L, Massera J, Janner D, Boetti NG, Pugliese D et al. **Effect of the addition of Al₂O₃, TiO₂ and ZnO on the thermal, structural and luminescence properties of Er³⁺-doped phosphate glasses**. Journal of Non-Crystalline Solids. 2017 maaliskuu 15;460:161-168. <https://doi.org/10.1016/j.jnoncrysol.2017.01.030>
- Kuzmin M, Lahtonen K, Vuori L, Sánchez-de-Armas R, Hirsimäki M, Valden M. **Investigation of the structural anisotropy in a self-assembling glycinate layer on Cu(100) by scanning tunneling microscopy and density functional theory calculations**. Applied Surface Science. 2017 maaliskuu 4;409:111-116. <https://doi.org/10.1016/j.apsusc.2017.03.005>
- Ruuskanen J, Stenvall A, Lahtinen V, Pardo E. **Electromagnetic nonlinearities in a Roebel-cable-based accelerator magnet prototype: Variational approach**. Superconductor Science and Technology. 2017 helmikuu 1;30(2). 024008. <https://doi.org/10.1088/1361-6668/30/2/024008>
- Marttila J, Allén M, Kosunen M, Stadius K, Ryyänen J, Valkama M. **Reference receiver enhanced digital linearization of wideband direct-conversion receivers**. IEEE Transactions on Microwave Theory and Techniques. 2017 helmikuu 1;65(2):607-620. <https://doi.org/10.1109/TMTT.2016.2638840>
- Balanta MAG, Orsi Gordo V, Carvalho ARH, Puustinen J, Alghamdi HM, Henini M et al. **Polarization resolved photoluminescence in GaAs_{1-x}Bi_x/GaAs quantum wells**. Journal of Luminescence. 2017 helmikuu;182:49-52. <https://doi.org/10.1016/j.jlumin.2016.10.008>
- Sarjas H, Surzhenkov A, Juhani K, Antonov M, Adoberg E, Kulu P et al. **Abrasive-Erosive Wear of Thermally Sprayed Coatings from Experimental and Commercial Cr₃C₂-Based Powders**. Journal of Thermal Spray Technology. 2017;26(8):2020–2029. <https://doi.org/10.1007/s11666-017-0638-2>
- Katkovnik V, Shevkunov I, Petrov NV, Egiazarian K. **Computational wavelength resolution for in-line lensless holography: Phase-coded diffraction patterns and wavefront group-sparsity**. julkaisussa Digital Optical Technologies 2017. SPIE. 2017. 1033509. (Proceedings of SPIE). <https://doi.org/10.1117/12.2269327>
- Paaso H, Gulati N, Patron D, Hakkarainen A, Werner J, Dandekar KR et al. **DoA Estimation Using Compact CRLH Leaky-Wave Antennas: Novel Algorithms and Measured Performance**. IEEE Transactions on Antennas and Propagation. 2017;4836-4849. <https://doi.org/10.1109/TAP.2017.2724584>
- Stoykova E, Nazarova D, Berberova N, Gotchev A, Ivanov B, Mateev G. **Dynamic laser speckle metrology with binarization of speckle patterns**. julkaisussa 19th International Conference and School on Quantum Electronics: Laser Physics and Applications. SPIE. 2017. 102260R. (Proceedings of SPIE). <https://doi.org/10.1117/12.2262330>
- Bomberg M, Miettinen H, Wahlström M, Kaartinen T, Ahoranta S, Lakaniemi A-M et al. **Evaluation of long-term post process inactivation of bioleaching microorganisms**. julkaisussa 22nd International Biohydrometallurgy Symposium. Trans Tech Publications Ltd. 2017. s. 57-60. (Solid State Phenomena). <https://doi.org/10.4028/www.scientific.net/SSP.262.57>
- Janka L, Norpoth J, Trache R, Thiele S, Berger LM. **HVOF- and HVOF-Sprayed Cr₃C₂-NiCr Coatings Deposited from Feedstock Powders of Spherical Morphology: Microstructure Formation and High-Stress Abrasive Wear Resistance Up to 800 °C**. Journal of Thermal Spray Technology. 2017;26(7):1720–1731. <https://doi.org/10.1007/s11666-017-0621-y>
- Oksanen VT, Lehtovaara AJ, Kallio MH. **Load capacity of lubricated bismuth bronze bimetal bearing under elliptical sliding motion**. Wear. 2017;388-389:72-80. <https://doi.org/10.1016/j.wear.2017.05.001>
- Zhao J, Stenvall A, Salmi T, Gao Y, Lorin C. **Mechanical behavior of a 16 T FCC dipole magnet during a quench**. IEEE Transactions on Applied Superconductivity. 2017;27(6). 4004407. <https://doi.org/10.1109/TASC.2017.2721974>

- Salpavaara T, Hänninen A, Antniemi A, Lekkala J, Kellomäki M. **Non-destructive and wireless monitoring of biodegradable polymers**. *Sensors and Actuators B: Chemical*. 2017;251:1018-1025. <https://doi.org/10.1016/j.snb.2017.05.116>
- Lindroos M, Laukkanen A, Cailletaud G, Kuokkala V-T. **On the effect of deformation twinning and microstructure to strain hardening of high manganese austenitic steel 3D microstructure aggregates at large strains**. *International Journal of Solids and Structures*. 2017;125:68-76. <https://doi.org/10.1016/j.ijsolstr.2017.07.015>
- Lampio K, Karvinen R. **Optimization of convectively cooled heat sinks**. *Microelectronics Reliability*. 2017;79:473-479. <https://doi.org/10.1016/j.microrel.2017.06.011>
- Filippov V, Vorotynskii A, Noronen T, Gumenyuk R, Chamorovskii Y, Golant K. **Picosecond MOPA with ytterbium doped tapered double clad fiber**. julkaisussa *Fiber Lasers XIV: Technology and Systems*. Vuosikerta 10083. SPIE. 2017. 100831H. (Proceedings of SPIE; 10083). <https://doi.org/10.1117/12.2252006>
- Matikainen V, Bolelli G, Koivuluoto H, Sassatelli P, Lusvarghi L, Vuoristo P. **Sliding wear behaviour of HVOF and HVAF sprayed Cr₃C₂-based coatings**. *Wear*. 2017;388-389:57-71. <https://doi.org/10.1016/j.wear.2017.04.001>
- Kolesnik S, Sitbon M, Lineykin S, Batzelis E, Papathanassiou S, Suntio T et al. **Solar Irradiation Independent Expression for Photovoltaic Generator Maximum Power Line**. *IEEE Journal of Photovoltaics*. 2017;7(5):1416-1420. <https://doi.org/10.1109/JPHOTOV.2017.2713404>
- Koivuluoto H, Milanti A, Bolelli G, Latokartano J, Marra F, Pulci G et al. **Structures and properties of laser-assisted cold-sprayed aluminum coatings**. julkaisussa *THERMEC 2016*. Vuosikerta 879. Trans Tech Publications Ltd. 2017. s. 984-989. (Materials Science Forum). <https://doi.org/10.4028/www.scientific.net/MSF.879.984>
- Lahbib I, Valkonen A, Rzaigui M, Smirani W. **Synthesis, Structural Characterization, Hirshfeld Surface and Antioxidant Activity Analysis of a Novel Organic Cation Antimonate Complex**. *Journal of Cluster Science*. 2017;28(4):2239-2252. <https://doi.org/10.1007/s10876-017-1217-x>
- Morandi A, Ainslie MD, Grilli F, Stenvall A. **The 5th international workshop on numerical modelling of high temperature superconductors**. *Superconductor Science and Technology*. 2017;30(8). 080201. <https://doi.org/10.1088/1361-6668/aa7676>
- Järveläinen M, Kaleva A, Kaitajärvi A, Laakso J, Kanerva U, Levänen E. **Compression curve analysis and compressive strength measurement of brittle granule beds in lieu of individual granule measurements**. *Particuology*. 2016 joulu;29:60-68. <https://doi.org/10.1016/j.partic.2015.10.006>
- Varis T, Suhonen T, Calonius O, Čuban J, Pietola M. **Optimization of HVOF Cr₃C₂-NiCr coating for increased fatigue performance**. *Surface and Coatings Technology*. 2016 marras 15;305:123-131. <https://doi.org/10.1016/j.surfcoat.2016.08.012>
- Järvinen H, Isakov M, Nyssönen T, Järvenpää M, Peura P. **The effect of initial microstructure on the final properties of press hardened 22MnB5 steels**. *Materials Science and Engineering A: Structural Materials Properties Microstructure and Processing*. 2016 loka 31;676:109-120. <https://doi.org/10.1016/j.msea.2016.08.096>
- Ärrälä M, Hafiz H, Mou D, Wu Y, Jiang R, Riedemann T et al. **Laser angle-resolved photoemission as a probe of initial state kz dispersion, final-state band gaps, and spin texture of Dirac states in the Bi₂Te₃ topological insulator**. *Physical Review B*. 2016 loka 27;94(15). 155144. <https://doi.org/10.1103/PhysRevB.94.155144>
- Kalikka J, Akola J, Jones RO. **Crystallization processes in the phase change material Ge₂Sb₂Te₅: Unbiased density functional/molecular dynamics simulations**. *Physical Review B*. 2016 loka 17;94(13). 134105. <https://doi.org/10.1103/PhysRevB.94.134105>

Lindgren M, Siljander S, Suihkonen R, Pohjanne P, Vuorinen J. **Erosion–corrosion resistance of various stainless steel grades in high-temperature sulfuric acid solution.** *Wear.* 2016 loka 15;364-365:10-21. <https://doi.org/10.1016/j.wear.2016.06.007>

Myllymäki S, Putaala J, Hannu J, Kunnari E, Mäntysalo M. **RF measurements to pinpoint defects in inkjet-printed, thermally and mechanically stressed coplanar waveguides.** *Microelectronics Reliability.* 2016 loka 1;65:142-150. <https://doi.org/10.1016/j.microrel.2016.08.021>

Kylänpää I, Cavaliere F, Ziani NT, Sasseti M, Räsänen E. **Thermal effects on the Wigner localization and Friedel oscillations in many-electron nanowires.** *Physical Review B.* 2016 syys 13;94(11). 115417. <https://doi.org/10.1103/PhysRevB.94.115417>

Pilehrood MK, Atashi A, Sadeghi-Aliabadi H, Nousiainen P, Harlin A. **3D micro-nano structured hybrid scaffolds: An investigation into the role of nanofiber coating on viability, proliferation and differentiation of seeded mesenchymal stem cells.** *Journal Nanoscience and Nanotechnology.* 2016 syys 1;16(9):9000-9007. <https://doi.org/10.1166/jnn.2016.12740>

Cui S, Massera J, Lastusaari M, Hupa L, Petit L. **Novel oxyfluorophosphate glasses and glass-ceramics.** *Journal of Non-Crystalline Solids.* 2016 elo 1;445-446:40-44. <https://doi.org/10.1016/j.jnoncrysol.2016.05.005>

Suihkonen R, Lindgren M, Siljander S, Sarlin E, Vuorinen J. **Erosion wear of vinyl ester matrix composites in aqueous and acidic environments at elevated temperatures.** *Wear.* 2016 heinä 15;358-359:7-16. <https://doi.org/10.1016/j.wear.2016.03.026>

Bolelli G, Berger LM, Börner T, Koivuluoto H, Matikainen V, Lusvarghi L et al. **Sliding and abrasive wear behaviour of HVOF- and HVAF-sprayed Cr₃C₂-NiCr hardmetal coatings.** *Wear.* 2016 heinä 15;358-359:32-50. <https://doi.org/10.1016/j.wear.2016.03.034>

Trujillo-Sevilla JM, Katkovnik V, Javidi B, Rodríguez-Ramos JM. **Restoring Integral Images from Focal Stacks Using Compressed Sensing Techniques.** *Journal of Display Technology.* 2016 heinä 1;12(7):701-706. <https://doi.org/10.1109/JDT.2016.2522922>

Kiilakoski J, Lindroos M, Apostol M, Koivuluoto H, Kuokkala V-T, Vuoristo P. **Characterization of High-Velocity Single Particle Impacts on Plasma-Sprayed Ceramic Coatings.** *Journal of Thermal Spray Technology.* 2016 kesä 24;25:1127-1137. <https://doi.org/10.1007/s11666-016-0428-2>

Ferracin P, Ambrosio G, Anerella M, Ballarino A, Bajas H, Bajko M et al. **Development of MQXF: The Nb₃Sn Low-β Quadrupole for the HiLumi LHC.** *IEEE Transactions on Applied Superconductivity.* 2016 kesä 1;26(4). 4000207. <https://doi.org/10.1109/TASC.2015.2510508>

Sharma R, Bhalariao S, Gupta D. **Effect of incorporation of CdS NPs on performance of PTB7: PCBM organic solar cells.** *Organic Electronics: physics, materials, applications.* 2016 kesä 1;33:274-280. <https://doi.org/10.1016/j.orgel.2016.03.030>

Marchevsky M, Turqueti M, Cheng DW, Felice H, Sabbi G, Salmi T et al. **Protection Heater Design Validation for the LARP Magnets Using Thermal Imaging.** *IEEE Transactions on Applied Superconductivity.* 2016 kesä 1;26(4). 4003605. <https://doi.org/10.1109/TASC.2016.2530161>

Marinozzi V, Ambrosio G, Ferracin P, Izquierdo Bermudez S, Rysti J, Salmi T et al. **Quench Protection Study of the Updated MQXF for the LHC Luminosity Upgrade (HiLumi LHC).** *IEEE Transactions on Applied Superconductivity.* 2016 kesä 1;26(4). 4001805. <https://doi.org/10.1109/TASC.2016.2523548>

DiMarco J, Ambrosio G, Anerella M, Bajas H, Chlachidze G, Borgnolutti F et al. **Test Results of the LARP Nb₃Sn Quadrupole HQ03a.** *IEEE Transactions on Applied Superconductivity.* 2016 kesä 1;26(4). 4005105. <https://doi.org/10.1109/TASC.2016.2528283>

Salmi T, Stenvall A. **The Impact of Protection Heater Delays Distribution on the Hotspot Temperature in a High-Field Accelerator Magnet.** IEEE Transactions on Applied Superconductivity. 2016 kesä 1;26(4). 4001405. <https://doi.org/10.1109/TASC.2016.2517238>

Milanti A, Matikainen V, Bolelli G, Koivuluoto H, Lusvarghi L, Vuoristo P. **Microstructure and Sliding Wear Behavior of Fe-Based Coatings Manufactured with HVOF and HVAF Thermal Spray Processes.** Journal of Thermal Spray Technology. 2016 kesä;25(5):1040–1055. <https://doi.org/10.1007/s11666-016-0410-z>

Kulju S, Akola J, Prendergast D, Jones RO. **Tuning electronic properties of graphene heterostructures by amorphous-to-crystalline phase transitions.** Physical Review B. 2016 touko 31;93(19). 195443. <https://doi.org/10.1103/PhysRevB.93.195443>

Soto AM, Koivisto JT, Parraga JE, Silva-Correia J, Oliveira JM, Reis RL et al. **Optical Projection Tomography Technique for Image Texture and Mass Transport Studies in Hydrogels Based on Gellan Gum.** Langmuir. 2016 touko 24;32(20):5173-5182. <https://doi.org/10.1021/acs.langmuir.6b00554>

Janka L, Norpoth J, Trache R, Berger LM. **Influence of heat treatment on the abrasive wear resistance of a Cr₃C₂NiCr coating deposited by an ethene-fuelled HVOF spray process.** Surface and Coatings Technology. 2016 huhti 15;291:444-451. <https://doi.org/10.1016/j.surfcoat.2016.02.066>

Soltani I, Hraiech S, Horchani-Naifer K, Massera J, Petit L, Férid M. **Thermal, structural and optical properties of Er³⁺ doped phosphate glasses containing silver nanoparticles.** Journal of Non-Crystalline Solids. 2016 huhti 15;438:67-73. <https://doi.org/10.1016/j.jnoncrysol.2015.12.022>

Aho V, Mattila K, Kühn T, Kekäläinen P, Pulkkinen O, Minussi RB et al. **Diffusion through thin membranes: Modeling across scales.** Physical Review E. 2016 huhti 12;93(4). 043309. <https://doi.org/10.1103/PhysRevE.93.043309>

Fernandez-Palacio F, Saccone M, Priimägi A, Terraneo G, Pilati T, Metrangolo P et al. **Coordination networks incorporating halogen-bond donor sites and azobenzene groups.** CrystEngComm. 2016 huhti 7;18(13):2251-2257. <https://doi.org/10.1039/c6ce00059b>

Escamez G, Sirois F, Lahtinen V, Stenvall A, Badel A, Tixador P et al. **3-D Numerical Modeling of AC Losses in Multifilamentary MgB₂ Wires.** IEEE Transactions on Applied Superconductivity. 2016 huhti 1;26(3). 4701907. <https://doi.org/10.1109/TASC.2016.2533024>

Kirby G, Rossi L, Badel A, Bajko M, Ballarino A, Bottura L et al. **Status of the Demonstrator Magnets for the EuCARD-2 Future Magnets Project.** IEEE Transactions on Applied Superconductivity. 2016 huhti 1;26(3). 4003307. <https://doi.org/10.1109/TASC.2016.2528544>

Vippola M, Valkonen M, Sarlin E, Honkanen M, Huttunen H. **Insight to Nanoparticle Size Analysis—Novel and Convenient Image Analysis Method Versus Conventional Techniques.** Nanoscale Research Letters. 2016 maaliskuu 31;11(1). 169. <https://doi.org/10.1186/s11671-016-1391-z>

Selvan NT, Eshwaran SB, Das A, Stöckelhuber KW, Wießner S, Pötschke P et al. **Piezoresistive natural rubber-multiwall carbon nanotube nanocomposite for sensor applications.** Sensors and Actuators, A: Physical. 2016 maaliskuu 1;239:102-113. <https://doi.org/10.1016/j.sna.2016.01.004>

Bansod ND, Kapgate BP, Das C, Das A, Basu D, Debnath SC. **Compatibilization of natural rubber/nitrile rubber blends by sol-gel nano-silica generated by in situ method.** JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY. 2016;80(2):548–559. <https://doi.org/10.1007/s10971-016-4114-0>

Pirkkalainen H, Elovaara J, Korpinen L. **Decreasing the extremely low-frequency electric field exposure with a Faraday cage during work tasks from a man hoist at a 400 kV substation.** Progress In Electromagnetics Research M. 2016;48:55-66.

Hupa L, Fagerlund S, Massera J, Björkvik L. **Dissolution behavior of the bioactive glass S53P4 when sodium is replaced by potassium, and calcium with magnesium or strontium.** Journal of Non-Crystalline Solids. 2016;41-46. <https://doi.org/10.1016/j.jnoncrysol.2015.03.026>

Isotalo TJ, Niemi T. **Dots-on-the-fly electron beam lithography.** julkaisussa Bencher C, toimittaja, SPIE Proceedings: Alternative Lithographic Technologies VIII. Vuosikerta 9777. SPIE. 2016. 97771E. (Proceedings of SPIE). <https://doi.org/10.1117/12.2219136>

Zia N, Viheriälä J, Koskinen R, Koskinen M, Suomalainen S, Guina M. **Fabrication and characterization of broadband superluminescent diodes for 2 μm wavelength.** julkaisussa Light-Emitting Diodes: Materials, Devices, and Applications for Solid State Lighting XX. SPIE. 2016. 97680Q. (Proceedings of SPIE). <https://doi.org/10.1117/12.2209720>

Rocherullé J, Massera J, Oudadesse H, Calvez L, Trolès J, Zhang XH. **Heat capacities of crystalline and glassy lithium metaphosphate up to the transition region.** Journal of Thermal Analysis and Calorimetry. 2016;123(1):401-407. <https://doi.org/10.1007/s10973-015-4938-9>

Viheriälä J, Aho AT, Mäkelä J, Salmi J, Virtanen H, Leinonen T et al. **High-power 1550 nm tapered DBR lasers fabricated using soft UV-nanoimprint lithography.** julkaisussa High-Power Diode Laser Technology and Applications XIV. SPIE. 2016. 97330Q. (SPIE Conference Proceedings). <https://doi.org/10.1117/12.2207423>

Moirangthem M, Stumpel JE, Alp B, Teunissen P, Bastiaansen CWM, Schenning APHJ. **Hot pen and laser writable photonic polymer films.** julkaisussa Emerging Liquid Crystal Technologies XI. Vuosikerta 9769. SPIE. 2016. 97690Y <https://doi.org/10.1117/12.2209065>

Aalto T, Harjanne M, Offrein BJ, Caër C, Neumeyr C, Malacarne A et al. **Integrating III-V, Si, and polymer waveguides for optical interconnects: RAPIDO.** julkaisussa Optical Interconnects XVI. SPIE. 2016. 97530D. (Proceedings of SPIE). <https://doi.org/10.1117/12.2214786>

Nyysönen T, Isakov M, Peura P, Kuokkala V-T. **Iterative Determination of the Orientation Relationship Between Austenite and Martensite from a Large Amount of Grain Pair Misorientations.** Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science. 2016;47(6):2587-2590. <https://doi.org/10.1007/s11661-016-3462-2>

Tuominen J, Näkki J, Pajukoski H, Hyvärinen L, Vuoristo P. **Microstructural and abrasion wear characteristics of laser-clad tool steel coatings.** Surface Engineering. 2016;32(12):923-933. <https://doi.org/10.1080/02670844.2016.1180496>

Fotiadi AA, Korobko DA, Okhotnikov OG, Zolotovskii IO. **Optical fiber amplifier with spectral compression elements for high-power laser pulse generation.** julkaisussa Nonlinear Optics and its Applications IV. Vuosikerta 9894. SPIE. 2016. 989411. (Proceedings of SPIE). <https://doi.org/10.1117/12.2223637>

Sakho EHM, Oluwafemi OS, Perumbilavil S, Philip R, Kala MS, Thomas S et al. **Rapid and facile synthesis of graphene oxide quantum dots with good linear and nonlinear optical properties.** Journal of Materials Science: Materials in Electronics. 2016;27(10):10926–10933. <https://doi.org/10.1007/s10854-016-5204-z>

Frantc VA, Makov SV, Voronin VV, Marchuk VI, Semenishchev EA, Egiazarian KO et al. **Simultaneous binary hash and features learning for image retrieval.** julkaisussa Mobile Multimedia/Image Processing, Security, and Applications 2016. SPIE. 2016. 986902. (SPIE Conference Proceedings). <https://doi.org/10.1117/12.2223605>

Hakkarainen T, Tommila J, Schramm A, Simonen J, Niemi T, Strelow C et al. **Site-controlled InAs Quantum Dots for Plasmonics.** julkaisussa Conference on Lasers and Electro-Optics 2016: QELS_Fundamental Science. OSA - The Optical Society. 2016. FM1B.3 https://doi.org/10.1364/CLEO_QELS.2016.FM1B.3

Golovanov V, Golovanova V, Rantala TT. **Thermal desorption of molecular oxygen from SnO₂ (110) surface: Insights from first-principles calculations.** Journal of Physics and Chemistry of Solids. 2016;89:15-22. <https://doi.org/10.1016/j.jpcs.2015.10.010>

Auer S, Koho T, Uusi-Kerttula H, Vesikari T, Blazevic V, Hytönen VP. **Rapid and sensitive detection of norovirus antibodies in human serum with a bilayer interferometry biosensor.** Sensors and Actuators B: Chemical. 2015 joulu 31;221:507-514. <https://doi.org/10.1016/j.snb.2015.06.088>

Kimionis J, Isakov M, Koh BS, Georgiadis A, Tentzeris MM. **3D-Printed Origami Packaging with Inkjet-Printed Antennas for RF Harvesting Sensors.** IEEE Transactions on Microwave Theory and Techniques. 2015 joulu 1;63(12):4521-4532. 7327248. <https://doi.org/10.1109/TMTT.2015.2494580>

Bito J, Hester JG, Tentzeris MM. **Ambient RF Energy Harvesting from a Two-Way Talk Radio for Flexible Wearable Wireless Sensor Devices Utilizing Inkjet Printing Technologies.** IEEE Transactions on Microwave Theory and Techniques. 2015 joulu 1;63(12):4533-4543. 7331327. <https://doi.org/10.1109/TMTT.2015.2495289>

Liu X, Yao S, Cook BS, Tentzeris MM, Georgakopoulos SV. **An Origami Reconfigurable Axial-Mode Bifilar Helical Antenna.** IEEE Transactions on Antennas and Propagation. 2015 joulu 1;63(12):5897-5903. 7275146. <https://doi.org/10.1109/TAP.2015.2481922>

He Y, Pan Z, Cheng X, He Y, Qiao J, Tentzeris MM. **A Novel Dual-Band, Dual-Polarized, Miniaturized and Low-Profile Base Station Antenna.** IEEE Transactions on Antennas and Propagation. 2015 joulu 1;63(12):5399-5408. 7274667. <https://doi.org/10.1109/TAP.2015.2481488>

Ihalainen TO, Aires L, Herzog FA, Schwartlander R, Moeller J, Vogel V. **Differential basal-to-apical accessibility of lamin A/C epitopes in the nuclear lamina regulated by changes in cytoskeletal tension.** Nature Materials. 2015 joulu 1;14(12):1252-1261. <https://doi.org/10.1038/nmat4389>

Gadelovits S, Sitbon M, Suntio T, Kuperman A. **Single-source multibattery solar charger: Case study and implementation issues.** Progress in Photovoltaics: Research and Applications. 2015 marras 25;23(12):1916-1928. <https://doi.org/10.1002/pip.2591>

Kuzmin M, Laukkanen P, Yasir M, Mäkelä J, Tuominen M, Dahl J et al. **Observation of unusual metal-semiconductor interaction and metal-induced gap states at an oxide-semiconductor interface: The case of epitaxial BaO/Ge(100) junction.** Physical Review B. 2015 loka 20;92(16). 165311. <https://doi.org/10.1103/PhysRevB.92.165311>

Oksanen V, Valtonen K, Andersson P, Vaajoki A, Laukkanen A, Holmberg K et al. **Comparison of laboratory rolling-sliding wear tests with in-service wear of nodular cast iron rollers against wire ropes.** Wear. 2015 loka 15;340-341:73-81. <https://doi.org/10.1016/j.wear.2015.07.006>

Mylläri V, Ruoko T-P, Vuorinen J, Lemmetyinen H. **Characterization of thermally aged polyetheretherketone fibres: Mechanical, thermal, rheological and chemical property changes.** Polymer Degradation and Stability. 2015 loka 1;120:419-426. <https://doi.org/10.1016/j.polymdegradstab.2015.08.003>

Bourhis K, Massera J, Petit L, Koponen J, Fargues A, Cardinal T et al. **Erbium-doped borosilicate glasses containing various amounts of P2O5 and Al2O3: Influence of the silica content on the structure and thermal, physical, optical and luminescence properties.** Materials Research Bulletin. 2015 loka 1;70:47-54. <https://doi.org/10.1016/j.materresbull.2015.04.017>

Tamminen P, Viheriäkoski T, Sydänheimo L, Ukkonen L. **ESD qualification data used as the basis for building electrostatic discharge protected areas.** Journal of Electrostatics. 2015 loka 1;77:174-181. 3024. <https://doi.org/10.1016/j.elstat.2015.08.009>

Milanti A, Matikainen V, Koivuluoto H, Bolelli G, Lusvarghi L, Vuoristo P. **Effect of spraying parameters on the microstructural and corrosion properties of HVOF-sprayed Fe-Cr-Ni-B-C coatings.** Surface and Coatings Technology. 2015 syys 15;277:81-90. <https://doi.org/10.1016/j.surfcoat.2015.07.018>

- Tukiainen A, Likonen J, Toikkanen L, Leinonen T. **Unintentional boron contamination of MBE-grown GaInP/AlGaInP quantum wells.** Journal of Crystal Growth. 2015 syys 1;425:60-63. <https://doi.org/10.1016/j.jcrysgr.2015.02.048>
- Barreca D, Carraro G, Warwick MEA, Kaunisto K, Gasparotto A, Gombac V et al. **Fe₂O₃-TiO₂ nanosystems by a hybrid PE-CVD/ALD approach: controllable synthesis, growth mechanism, and photocatalytic properties.** CrystEngComm. 2015 elo 28;17(32):6219-6226. <https://doi.org/10.1039/c5ce00883b>
- Mäkelä J, Tuominen M, Yasir M, Polojärvi V, Aho A, Tukiainen A et al. **Effects of thinning and heating for TiO₂/AlInP junctions.** Journal of Electron Spectroscopy and Related Phenomena. 2015 elo 24;205:6-9. <https://doi.org/10.1016/j.elspec.2015.08.004>
- Devassy L, Jisha CP, Alberucci A, Kuriakose VC. **Parity-time-symmetric solitons in trapped Bose-Einstein condensates and the influence of varying complex potentials: A variational approach.** Physical Review E. 2015 elo 19;92(2). 022914. <https://doi.org/10.1103/PhysRevE.92.022914>
- Levin M, Rojas E, Vanhala E, Vippola M, Liguori B, Kling KI et al. **Influence of relative humidity and physical load during storage on dustiness of inorganic nanomaterials: implications for testing and risk assessment.** Journal of Nanoparticle Research. 2015 elo 14;17(8). 337. <https://doi.org/10.1007/s11051-015-3139-6>
- Salmi T, Chlachidze G, Marchevsky M, Bajas H, Felice H, Stenvall A. **Analysis of uncertainties in protection heater delay time measurements and simulations in Nb₃Sn high-field accelerator magnets.** IEEE Transactions on Applied Superconductivity. 2015 elo 1;25(4). <https://doi.org/10.1109/TASC.2015.2437332>
- Haaparanta A-M, Uppstu P, Hannula M, Ellä V, Rosling A, Kellomäki M. **Improved dimensional stability with bioactive glass fibre skeleton in poly(lactide-co-glycolide) porous scaffolds for tissue engineering.** Materials Science and Engineering C: Materials for Biological Applications. 2015 heinä 20;56:457-466. 5584. <https://doi.org/10.1016/j.msec.2015.07.013>
- Isoniemi T, Tuukkanen S, Cameron DC, Simonen J, Toppari JJ. **Measuring optical anisotropy in poly(3,4-ethylene dioxythiophene): poly(styrene sulfonate) films with added graphene.** Organic Electronics. 2015 heinä 9;25:317-323. <https://doi.org/10.1016/j.orgel.2015.06.037>, <https://doi.org/10.1016/j.orgel.2015.06.037>
- Godec A, Metzler R. **Signal focusing through active transport.** Physical Review E. 2015 heinä 2;92(1). 010701. <https://doi.org/10.1103/PhysRevE.92.010701>
- Mattila KK, Hegele LA, Philippi PC. **Investigation of an entropic stabilizer for the lattice-Boltzmann method.** Physical Review E. 2015 kesä 19;91(6). 063010. <https://doi.org/10.1103/PhysRevE.91.063010>
- De Carvalho SJ, Metzler R, Cherstvy AG. **Inverted critical adsorption of polyelectrolytes in confinement.** Soft Matter. 2015 kesä 14;11(22):4430-4443. <https://doi.org/10.1039/c5sm00635j>
- Salpavaara T, Järveläinen M, Seppälä S, Yli-Hallila T, Verho J, Vilkkö M et al. **Passive resonance sensor based method for monitoring particle suspensions.** Sensors and Actuators B: Chemical. 2015 kesä 8;219:324-330. <https://doi.org/10.1016/j.snb.2015.04.121>
- Kirby GA, Van Nugteren J, Ballarino A, Bottura L, Chouika N, Clement S et al. **Accelerator-quality HTS dipole magnet demonstrator designs for the EuCARD-2 5-T 40-mm clear aperture magnet.** IEEE Transactions on Applied Superconductivity. 2015 kesä 1;25(3). 4000805. <https://doi.org/10.1109/TASC.2014.2361933>
- Järveläinen M, Humalamäki J, Laakso J, Levänen E. **Mechanical characterization of fiber ceramics: Effect of temperature.** Advanced Engineering Materials. 2015 kesä 1;17(6):821-830. <https://doi.org/10.1002/adem.201400512>

Borah D, Rasappa S, Salaun M, Zellsman M, Lorret O, Liontos G et al. **Soft graphoepitaxy for large area directed self-assembly of polystyrene-block-poly(dimethylsiloxane) block copolymer on nanopatterned poss substrates fabricated by nanoimprint lithography.** *Advanced Functional Materials*. 2015 kesä 1;25(22):3425-3432. <https://doi.org/10.1002/adfm.201500100>

Marinozzi V, Ambrosio G, Bellomo G, Chlachidze G, Felice H, Marchevsky M et al. **Study of quench protection for the Nb₃Sn low-β quadrupole for the LHC luminosity upgrade (HiLumi-LHC).** *IEEE Transactions on Applied Superconductivity*. 2015 kesä 1;25(3). 4002905. <https://doi.org/10.1109/TASC.2014.2383435>

Lyly M, Krooshoop E, Lübkeermann R, Wessel S, Stenvall A, Dhalle M et al. **Suitability of bundle approximation in AC loss analysis of NbTi wires: Simulations and experiment.** *IEEE Transactions on Applied Superconductivity*. 2015 kesä 1;25(3). <https://doi.org/10.1109/TASC.2014.2376184>

Bajas H, Ambrosio G, Anerella M, Bajko M, Bossert R, Bottura L et al. **Test results of the LARP HQ02b magnet at 1.9 K.** *IEEE Transactions on Applied Superconductivity*. 2015 kesä 1;25(3). 4003306. <https://doi.org/10.1109/TASC.2014.2378375>

Rossi L, Badel A, Bajko M, Ballarino A, Bottura L, Dhallé MMJ et al. **The EuCARD-2 future magnets European collaboration for accelerator-quality HTS magnets.** *IEEE Transactions on Applied Superconductivity*. 2015 kesä 1;25(3). 4001007. <https://doi.org/10.1109/TASC.2014.2364215>

Ruuskanen J, Stenvall A, Lahtinen V. **Utilizing triangular mesh with MMEV to study hysteresis losses of round superconductors obeying critical state model.** *IEEE Transactions on Applied Superconductivity*. 2015 kesä 1;25(3). 8200405. <https://doi.org/10.1109/TASC.2014.2365408>

Song X, Liu Z, Suhonen T, Varis T, Huang L, Zheng X et al. **Effect of melting state on the thermal shock resistance and thermal conductivity of APS ZrO₂-7.5wt.% Y₂O₃ coatings.** *Surface and Coatings Technology*. 2015 touko 25;270:132-138. <https://doi.org/10.1016/j.surfcoat.2015.03.011>

Godec A, Metzler R. **Optimization and universality of Brownian search in a basic model of quenched heterogeneous media.** *Physical Review E*. 2015 touko 21;91(5). 052134. <https://doi.org/10.1103/PhysRevE.91.052134>

Lahtinen V, Stenvall A, Sirois F, Pellikka M. **A Finite Element Simulation Tool for Predicting Hysteresis Losses in Superconductors Using an H-Oriented Formulation with Cohomology Basis Functions.** *Journal of Superconductivity and Novel Magnetism*. 2015 huhti 22;28(8):2345-2354. <https://doi.org/10.1007/s10948-015-3074-x>

Koivisto AJ, Aromaa M, Koponen IK, Fransman W, Jensen KA, Mäkelä JM et al. **Workplace performance of a loose-fitting powered air purifying respirator during nanoparticle synthesis.** *Journal of Nanoparticle Research*. 2015 huhti 9;17(4). <https://doi.org/10.1007/s11051-015-2990-9>

Safdari H, Checkin AV, Jafari GR, Metzler R. **Aging scaled Brownian motion.** *Physical Review E*. 2015 huhti 7;91(4). 042107. <https://doi.org/10.1103/PhysRevE.91.042107>

Lindgren M, Suihkonen R, Vuorinen J. **Erosive wear of various stainless steel grades used as impeller blade materials in high temperature aqueous slurry.** *Wear*. 2015 huhti 5;328-329:391-400. <https://doi.org/10.1016/j.wear.2015.03.014>

Lindroos M, Ratia V, Apostol M, Valtonen K, Laukkanen A, Molnar W et al. **The effect of impact conditions on the wear and deformation behavior of wear resistant steels.** *Wear*. 2015 huhti 5;328-329:197-205. <https://doi.org/10.1016/j.wear.2015.02.032>

Liu X, Fan Y, Tentzeris MM. **An integrated "sense-and-communicate" broad-/narrow-band optically controlled reconfigurable antenna for cognitive radio systems.** *Microwave and Optical Technology Letters*. 2015 huhti 1;57(4):1016-1023. <https://doi.org/10.1002/mop.29004>

- Härö E, Stenvall A, Van Nugteren J, Kirby G. **Hot spot temperature in an HTS Coil: Simulations with MIITs and finite element method.** IEEE Transactions on Applied Superconductivity. 2015 huhti 1;25(2). <https://doi.org/10.1109/TASC.2015.2396945>
- Romanelli F, Abhangi M, Abreu P, Aftanas M, Afzal M, Aggarwal KM et al. **Overview of the JET results.** Nuclear Fusion. 2015 maaliskuu 27;55(10). 104001. <https://doi.org/10.1088/0029-5515/55/10/104001>
- Kuisma M, Sakko A, Rossi TP, Larsen AH, Enkovaara J, Lehtovaara L et al. **Localized surface plasmon resonance in silver nanoparticles: Atomistic first-principles time-dependent density-functional theory calculations.** Physical Review B. 2015 maaliskuu 24;91(11). 115431. <https://doi.org/10.1103/PhysRevB.91.115431>
- Varis T, Bankiewicz D, Yrjas P, Oksa M, Suhonen T, Tuurna S et al. **High temperature corrosion of thermally sprayed NiCr and FeCr coatings covered with a KCl-K₂SO₄ salt mixture.** Surface and Coatings Technology. 2015 maaliskuu 15;265:235-243. <https://doi.org/10.1016/j.surfcoat.2014.11.012>
- Bolelli G, Berger LM, Börner T, Koivuluoto H, Lusvarghi L, Lyphout C et al. **Tribology of HVOF- and HVOF-sprayed WC-10Co4Cr hardmetal coatings: A comparative assessment.** Surface and Coatings Technology. 2015 maaliskuu 15;265:125-144. <https://doi.org/10.1016/j.surfcoat.2015.01.048>
- Valagiannopoulos CA, Tukiainen A, Aho T, Niemi T, Guina M, Tretyakov SA et al. **Perfect magnetic mirror and simple perfect absorber in the visible spectrum.** Physical Review B. 2015 maaliskuu 11;91(11). 115305. <https://doi.org/10.1103/PhysRevB.91.115305>
- Wecharine I, Valkonen A, Rzaigui M, Sta WS, Smith G. **Crystal structure of 2-methylpiperazine-1,4-dium bis(hydrogen maleate).** Acta Crystallographica Section E : Structure Reports Online. 2015 maaliskuu 1;71(3):o193-o194. <https://doi.org/10.1107/S2056989015003102>
- Sitbon M, Leppäaho J, Suntio T, Kuperman A. **Dynamics of photovoltaic-generator-interfacing voltage-controlled buck power stage.** IEEE Journal of Photovoltaics. 2015 maaliskuu 1;5(2):633-640. <https://doi.org/10.1109/JPHOTOV.2014.2379094>
- Subramaniam NP, Hyttinen J. **Dynamics of intracranial electroencephalographic recordings from epilepsy patients using univariate and bivariate recurrence networks.** Physical Review E. 2015 helmikuu 27;91(2). 022927. <https://doi.org/10.1103/PhysRevE.91.022927>
- Ray S, Steven RT, Green FM, Höök F, Taskinen B, Hytönen VP et al. **Neutralized chimeric avidin binding at a reference biosensor surface.** Langmuir. 2015 helmikuu 17;31(6):1921-1930. <https://doi.org/10.1021/la503213f>
- Miller TL, Ärrälä M, Smallwood CL, Zhang W, Hafiz H, Barbiellini B et al. **Resolving unoccupied electronic states with laser ARPES in bismuth-based cuprate superconductors.** Physical Review B. 2015 helmikuu 13;91(8). 085109. <https://doi.org/10.1103/PhysRevB.91.085109>
- Beyeh NK, Pan F, Valkonen A, Rissanen K. **Encapsulation of secondary and tertiary ammonium salts by resorcinarenes and pyrogallarenes: The effect of size and charge concentration.** CrystEngComm. 2015 helmikuu 7;17(5):1182-1188. <https://doi.org/10.1039/c4ce01927j>
- Bautista G, Mäkitalo J, Chen Y, Dhaka V, Grasso M, Karvonen L et al. **Second-harmonic generation imaging of semiconductor nanowires with focused vector beams.** Nano Letters. 2015 helmikuu 6;15(3):1564-1569. <https://doi.org/10.1021/nl503984b>
- Choi S, Su W, Tentzeris MM, Lim S. **A novel fluid-reconfigurable advanced and delayed phase line using inkjet-printed microfluidic composite right/left-handed transmission line.** IEEE Microwave and Wireless Components Letters. 2015 helmikuu 1;25(2):142-144. 7008548. <https://doi.org/10.1109/LMWC.2014.2382685>

Järvelä J, Lyly M, Stenvall A, Juntunen R, Souc J, Mikkonen R. **Design, fabrication, and testing of a low AC-loss conduction-cooled cryostat for magnetization loss measurement apparatus.** IEEE Transactions on Applied Superconductivity. 2015 helmi 1;25(1). <https://doi.org/10.1109/TASC.2014.2357754>

Shin J, Cherstvy AG, Metzler R. **Kinetics of polymer looping with macromolecular crowding: Effects of volume fraction and crowder size.** Soft Matter. 2015 tammi 21;11(3):472-488. <https://doi.org/10.1039/c4sm02007c>

Li Z, Le T, Wu Z, Yao Y, Li L, Tentzeris M et al. **Rational design of a printable, highly conductive silicone-based electrically conductive adhesive for stretchable radio-frequency antennas.** Advanced Functional Materials. 2015 tammi 21;25(3):464-470. <https://doi.org/10.1002/adfm.201403275>

Czaplicki R, Mäkitalo J, Siikanen R, Husu H, Lehtolahti J, Kuittinen M et al. **Second-Harmonic Generation from Metal Nanoparticles: Resonance Enhancement versus Particle Geometry.** Nano Letters. 2015 tammi 14;15(1):530-534. <https://doi.org/10.1021/nl503901e>

Kalimeri M, Derreumaux P, Sterpone F. **Are coarse-grained models apt to detect protein thermal stability? the case of OPEP force field.** Journal of Non-Crystalline Solids. 2015 tammi 1;407:494-501. <https://doi.org/10.1016/j.jnoncrysol.2014.07.005>

Mariotti C, Cook BS, Roselli L, Tentzeris MM. **State-of-the-art inkjet-printed metal-insulator-metal (MIM) capacitors on silicon substrate.** IEEE Microwave and Wireless Components Letters. 2015 tammi 1;25(1):13-15. 6949681. <https://doi.org/10.1109/LMWC.2014.2365745>

Kantola E, Leinonen T, Ranta S, Tavast M, Penttinen J-P, Guina M. **1180nm VECSEL with 50 W output power.** julkaisussa Proceedings of SPIE - The International Society for Optical Engineering. Vuosikerta 9349. SPIE. 2015. 93490U <https://doi.org/10.1117/12.2079480>

Rubel AS, Lukin VV, Egiazarian K. **A method for predicting DCT-based denoising efficiency for grayscale images corrupted by AWGN and additive spatially correlated noise.** julkaisussa Proceedings of SPIE - The International Society for Optical Engineering. Vuosikerta 9399. SPIE. 2015. 93990P <https://doi.org/10.1117/12.2082533>

Battisti F, Carli M, Stramacci A, Boev A, Gotchev A. **A perceptual quality metric for high-definition stereoscopic 3D video.** julkaisussa Image Processing: Algorithms and Systems XIII. SPIE. 2015. 939916. (SPIE Conference Proceedings). <https://doi.org/10.1117/12.2086901>

Martinez F, Neculqueo G, Vasquez SO, Lemmetyinen H, Efimov A, Vivo P. **Branched thiophene oligomer/polymer bulk heterojunction organic solar cell.** julkaisussa Materials Research Society Symposium Proceedings. Vuosikerta 1737. MATERIALS RESEARCH SOCIETY. 2015. s. 19-25 <https://doi.org/10.1557/opl.2015.529>

Lukin VV, Ponomarenko NN, Ieremeiev O, Egiazarian K, Astola J. **Combining full-reference image visual quality metrics by neural network.** julkaisussa Proceedings of SPIE - The International Society for Optical Engineering. Vuosikerta 9394. SPIE. 2015. 93940K <https://doi.org/10.1117/12.2085465>

Voronin VV, Marchuk VI, Fisunov AV, Tokareva SV, Egiazarian KO. **Depth map occlusion filling and scene reconstruction using modified exemplar-based inpainting.** julkaisussa Image Processing: Algorithms and Systems XIII. SPIE. 2015. 93990S. (SPIE Conference Proceedings). <https://doi.org/10.1117/12.2076506>

Niittymäki M, Lahti K, Suhonen T, Metsäjoki J. **Dielectric Breakdown Strength of Thermally Sprayed Ceramic Coatings: Effects of Different Test Arrangements.** Journal of Thermal Spray Technology. 2015;24(3):542-551. <https://doi.org/10.1007/s11666-014-0211-1>

Ledentsov NN, Shchukin VA, Lyytikäinen J, Okhotnikov O, Cherkashin NA, Shernyakov YM et al. **Green (In,Ga,Al)P-GaP light-emitting diodes grown on high-index GaAs surfaces.** julkaisussa Proceedings of SPIE: Light-Emitting Diodes: Materials, Devices, and Applications for Solid State Lighting XIX. Vuosikerta 9383. SPIE. 2015. 93830E

<https://doi.org/10.1117/12.2083953>

Leinonen T, Penttinen JP, Korpijärvi VM, Kantola E, Guina M. **>8W GaInNAs VECSEL emitting at 615 nm.** julkaisussa Proceedings of SPIE: Vertical External Cavity Surface Emitting Lasers (VECSELs) V. Vuosikerta 9349. SPIE. 2015. 934909 <https://doi.org/10.1117/12.2079162>

Milanti A, Koivuluoto H, Vuoristo P. **Influence of the Spray Gun Type on Microstructure and Properties of HVAF Sprayed Fe-Based Corrosion Resistant Coatings.** Journal of Thermal Spray Technology. 2015;24(7):1312-1322. <https://doi.org/10.1007/s11666-015-0298-z>

Borg T, Pääkkönen EJ. **Linear viscoelastic model for different flows based on control theory.** Applied Rheology. 2015;25(6). 64304. <https://doi.org/10.3933/ApplRheol-25-64304>

Frosio I, Egiazarian K, Pulli K. **Machine learning for adaptive bilateral filtering.** julkaisussa Image Processing: Algorithms and Systems XIII. Vuosikerta 9399. SPIE. 2015. 939908. (Proceedings of SPIE - The International Society for Optical Engineering). <https://doi.org/10.1117/12.2077733>

Ye C, Koponen J, Aallos V, Kokki T, Petit L, Kimmelma O. **Measuring bend losses in large-mode-area fibers.** julkaisussa Fiber Lasers XII: Technology, Systems, and Applications. Vuosikerta 9344. SPIE. 2015. 934425 <https://doi.org/10.1117/12.2076813>

Korpijärvi V-M, Kantola EL, Leinonen T, Guina M. **Monolithic GaInNAsSb/GaAs VECSEL emitting at 1550 nm.** julkaisussa SPIE conference proceedings. Vuosikerta 9349. SPIE. 2015. 93490D <https://doi.org/10.1117/12.2077517>

Voronin VV, Frantc VA, Marchuk VI, Sherstobitov AI, Egiazarian K. **No-reference visual quality assessment for image inpainting.** julkaisussa Image Processing: Algorithms and Systems XIII. SPIE. 2015. 93990U. (SPIE Conference Proceedings). <https://doi.org/10.1117/12.2076507>

Polojärvi V, Pavelescu E-M, Schramm A, Tukiainen A, Aho A, Puustinen J et al. **Optical properties and thermionic emission in solar cells with InAs quantum dots embedded within GaNAs and GaInNAs.** Scripta Materialia. 2015;108:122-125. <https://doi.org/10.1016/j.scriptamat.2015.06.033>

Heikkinen J, Gumenyuk R, Rantamäki A, Lyytikäinen J, Leinonen T, Zolotovskii I et al. **Power and wavelength scaling using semiconductor disk laser - bismuth fiber MOPA systems.** julkaisussa Guina M, toimittaja, Vertical External Cavity Surface Emitting Lasers (VECSELs) V. BELLINGHAM: SPIE. 2015. 93490E. (Proceedings of SPIE). <https://doi.org/10.1117/12.2076805>

Suominen O, Gotchev A. **Preserving natural scene lighting by strobe-lit video.** julkaisussa Image Processing: Algorithms and Systems XIII. SPIE. 2015. 939919. (SPIE Conference Proceedings). <https://doi.org/10.1117/12.2185013>

Smirnov S, Gotchev A. **Real-time depth image-based rendering with layered dis-occlusion compensation and aliasing-free composition.** julkaisussa Proceedings of SPIE - The International Society for Optical Engineering. SPIE. 2015. 93990T. (SPIE Conference Proceedings). <https://doi.org/10.1117/12.2086895>

Mäkelä JM, Haapanen J, Aromaa M, Teisala H, Tuominen M, Stepien M et al. **Roll-to-roll coating by liquid flame spray nanoparticle deposition.** julkaisussa Materials Research Society Symposium Proceedings. Vuosikerta 1747. MATERIALS RESEARCH SOCIETY. 2015. s. 37-42 <https://doi.org/10.1557/opl.2015.530>

Stumpel JE, Gil ER, Spoelstra AB, Bastiaansen CWM, Broer DJ, Schenning APHJ. **Stimuli-Responsive Materials Based on Interpenetrating Polymer Liquid Crystal Hydrogels.** Advanced Functional Materials. 2015;25(22):3314-3320. <https://doi.org/10.1002/adfm.201500745>

Maximov MV, Kryzhanovskaya NV, Nadtochiy AM, Moiseev EI, Shostak II, Bogdanov AA et al. **Ultrascale microdisk and microring lasers based on InAs/InGaAs/GaAs quantum dots.** Nanoscale Research Letters. 2014 joulu 13;9(1). 657. <https://doi.org/10.1186/1556-276X-9-657>

Kimionis J, Georgiadis A, Collado A, Tentzeris MM. **Enhancement of RF tag backscatter efficiency with low-power reflection amplifiers**. IEEE Transactions on Microwave Theory and Techniques. 2014 joulu 1;62(12):3562-3571. 6971048. <https://doi.org/10.1109/TMTT.2014.2363835>

Song X, Suhonen T, Varis T, Huang L, Zheng X, Zeng Y. **Fabrication and Characterization of Amorphous Alumina-Yttria-Stabilized Zirconia Coatings by Air Plasma Spraying**. Journal of Thermal Spray Technology. 2014 marras 25;23(8):1302-1311. <https://doi.org/10.1007/s11666-014-0124-z>

Ojala N, Valtonen K, Heino V, Kallio M, Aaltonen J, Siitonen P et al. **Effects of composition and microstructure on the abrasive wear performance of quenched wear resistant steels**. Wear. 2014 syys 15;317(1-2):225-232. <https://doi.org/10.1016/j.wear.2014.06.003>

Ball J, Parra FI, Barnes M, Dorland W, Hammett GW, Rodrigues P et al. **Intrinsic momentum transport in up-down asymmetric tokamaks**. PLASMA PHYSICS AND CONTROLLED FUSION. 2014 syys 1;56(9). 095014. <https://doi.org/10.1088/0741-3335/56/9/095014>

Lång JJK, Punkkinen MPJ, Tuominen M, Hedman HP, Vähä-Heikkilä M, Polojärvi V et al. **Unveiling and controlling the electronic structure of oxidized semiconductor surfaces: Crystalline oxidized InSb(100)(1 × 2)-O: Crystalline oxidized InSb(100)(1 × 2)-O**. Physical Review B. 2014 heinä 29;90(4):1-9. 045312. <https://doi.org/10.1103/PhysRevB.90.045312>

Oksa M, Varis T, Ruusuvuori K. **Performance testing of iron based thermally sprayed HVOF coatings in a biomass-fired fluidised bed boiler**. Surface and Coatings Technology. 2014 heinä 25;251:191-200. <https://doi.org/10.1016/j.surfcoat.2014.04.025>

Pluhařová E, Fischer HE, Mason PE, Jungwirth P. **Hydration of the chloride ion in concentrated aqueous solutions using neutron scattering and molecular dynamics**. Molecular Physics. 2014 touko 19;112(9-10):1230-1240. <https://doi.org/10.1080/00268976.2013.875231>

Ghabchi A, Sampath S, Holmberg K, Varis T. **Damage mechanisms and cracking behavior of thermal sprayed WC-CoCr coating under scratch testing**. Wear. 2014 touko 15;313(1-2):97-105. <https://doi.org/10.1016/j.wear.2014.02.017>

Ciranna A, Ferrari R, Santala V, Karp M. **Inhibitory effects of substrate and soluble end products on biohydrogen production of the alkalithermophile Caloramator celer: Kinetic, metabolic and transcription analyses**. International Journal of Hydrogen Energy. 2014 huhti 15;39(12):6391-6401. <https://doi.org/10.1016/j.ijhydene.2014.02.047>

Priimagi A, Shevchenko A. **Azopolymer-based micro- and nanopatterning for photonic applications**. Journal of Polymer Science. Part B, Polymer Physics. 2014 helmi 1;52(3):163-182. <https://doi.org/10.1002/polb.23390>

Ma L, Jackson KA, Wang J, Horoi M, Jellinek J. **Investigating the metallic behavior of Na clusters using site-specific polarizabilities**. Physical Review B. 2014 tammi 24;89(3). 035429. <https://doi.org/10.1103/PhysRevB.89.035429>

Sorianello V, Colace L, Rajamani S, Assanto G. **Design and simulation of optically controlled field effect transistors**. Physica Status Solidi C. 2014 tammi;11(1):81-84. <https://doi.org/10.1002/pssc.201300128>

Sorianello V, De Iacovo A, Colace L, Fabbri A, Tortora L, Assanto G. **Spin-on-dopant phosphorus diffusion in germanium thin films for near-infrared detectors**. Physica Status Solidi C. 2014 tammi;11(1):57-60. <https://doi.org/10.1002/pssc.201300114>

Traille A, Kim S, Coustou A, Aubert H, Tentzeris MM. **A conformal/rollable monolithic miniaturized ultra-portable ground penetrating radar using additive and inkjet printing**. julkaisussa 2014 IEEE MTT-S International Microwave Symposium, IMS 2014. Institute of Electrical and Electronics Engineers Inc. 2014. 6848398 <https://doi.org/10.1109/MWSYM.2014.6848398>

Wang J, Ray AK. **A full-potential linearized augmented plane wave study of the interaction of CO₂ with α -Pu (020) surface nanolayers.** Journal of Computational and Theoretical Nanoscience. 2014;11(7):1710-1717. <https://doi.org/10.1166/jctn.2014.3555>

Sand A, Rakkolainen I. **A hand-held immaterial volumetric display.** julkaisussa Proceedings of SPIE-IS and T Electronic Imaging - Stereoscopic Displays and Applications XXV. Vuosikerta 9011. SPIE. 2014. 90110Q <https://doi.org/10.1117/12.2035280>

Kimionis J, Georgiadis A, Kim S, Collado A, Niotaki K, Tentzeris MM. **An enhanced-range RFID tag using an ambient energy powered reflection amplifier.** julkaisussa 2014 IEEE MTT-S International Microwave Symposium, IMS 2014. Institute of Electrical and Electronics Engineers Inc. 2014. 6848653 <https://doi.org/10.1109/MWSYM.2014.6848653>

Kim S, Aubert H, Tentzeris MM. **An inkjet-printed flexible broadband coupler in substrate integrated waveguide (SIW) technology for sensing, RFID and communication applications.** julkaisussa 2014 IEEE MTT-S International Microwave Symposium, IMS 2014. Institute of Electrical and Electronics Engineers Inc. 2014. 6848580 <https://doi.org/10.1109/MWSYM.2014.6848580>

Yao S, Georgakopoulos SV, Cook B, Tentzeris M. **A novel reconfigurable origami accordion antenna.** julkaisussa 2014 IEEE MTT-S International Microwave Symposium, IMS 2014. Institute of Electrical and Electronics Engineers Inc. 2014. 6848571 <https://doi.org/10.1109/MWSYM.2014.6848571>

Cho C, Yi X, Wang Y, Tentzeris MM, Leon RT. **Compressive strain measurement using RFID patch antenna sensors.** julkaisussa Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems 2014. Vuosikerta 9061. SPIE. 2014. 90610X <https://doi.org/10.1117/12.2045122>

Rasappa S, Borah D, Senthamaraiannan R, Faulkner CC, Holmes JD, Morris MA. **Fabrication of 3-D nanodimensioned electric double layer capacitor structures using block copolymer templates.** Journal Nanoscience and Nanotechnology. 2014;14(7):5221-5227. <https://doi.org/10.1166/jnn.2014.8668>

Varis T, Suhonen T, Ghabchi A, Valarezo A, Sampath S, Liu X et al. **Formation mechanisms, structure, and properties of HVOF-sprayed WC-CoCr coatings: An approach toward process maps.** Journal of Thermal Spray Technology. 2014;23(6):1009-1018. <https://doi.org/10.1007/s11666-014-0110-5>

Tehrani BK, Bito J, Cook BS, Tentzeris MM. **Fully inkjet-printed multilayer microstrip and T-resonator structures for the RF characterization of printable materials and interconnects.** julkaisussa 2014 IEEE MTT-S International Microwave Symposium, IMS 2014. Institute of Electrical and Electronics Engineers Inc. 2014. 6848664 <https://doi.org/10.1109/MWSYM.2014.6848664>

Vyas RJ, Bito J, Kim S, Tentzeris MM. **Harvesting wireless signals from two-way talk-radios to power smart meters and displays.** julkaisussa 2014 IEEE MTT-S International Microwave Symposium, IMS 2014. Institute of Electrical and Electronics Engineers Inc. 2014. 6848669 <https://doi.org/10.1109/MWSYM.2014.6848669>

Cook BS, Mariotti C, Cooper JR, Revier D, Tehrani BK, Aluigi L et al. **Inkjet-printed, vertically-integrated, high-performance inductors and transformers on flexible LCP substrate.** julkaisussa 2014 IEEE MTT-S International Microwave Symposium, IMS 2014. Institute of Electrical and Electronics Engineers Inc. 2014. 6848575 <https://doi.org/10.1109/MWSYM.2014.6848575>

Ye C, Koponen J, Aallos V, Petit L, Kimmelma O, Kokki T. **Mode coupling in few-mode large-mode-area fibers.** julkaisussa Fiber Lasers XI: Technology, Systems, and Applications. Vuosikerta 8961. SPIE. 2014. 89612W <https://doi.org/10.1117/12.2038575>

Stumpel JE, Broer DJ, Bastiaansen CWM, Schenning APHJ. **Optical and topographic changes in water-responsive patterned cholesteric liquid crystalline polymer coatings.** julkaisussa Proceedings of SPIE: Organic Photonics VI. Vuosikerta 9137. SPIE. 2014. 91370U. (Proceedings of SPIE: the International Society for Optical Engineering). <https://doi.org/10.1117/12.2052678>

Kantola E, Leinonen T, Ranta S, Tavast M, Guina M. **Pulsed high-power yellow-orange VECSEL**. julkaisussa Photonics Europe 2014, Semiconductor Lasers and Laser Dynamics VI, April 14-17, 2014, Brussels, Belgium. Proceedings of SPIE. Vuosikerta 9134. SPIE. 2014. 91340Z. (SPIE Conference Proceedings). <https://doi.org/10.1117/12.2054716>

Liu X, Yao S, Georgakopoulos SV, Cook BS, Tentzeris MM. **Reconfigurable helical antenna based on an origami structure for wireless communication system**. julkaisussa 2014 IEEE MTT-S International Microwave Symposium, IMS 2014. Institute of Electrical and Electronics Engineers Inc. 2014. 6848553 <https://doi.org/10.1109/MWSYM.2014.6848553>

Mokarian-Tabari P, Cummins C, Rasappa S, Simao C, Torres CMS, Holmes JD et al. **Study of the kinetics and mechanism of rapid self-assembly in block copolymer thin films during solvo-microwave annealing**. Langmuir. 2014;30(35):10728-10739. <https://doi.org/10.1021/la503137q>

Mylläri V, Ruoko TP, Järvelä P. **The effects of UV irradiation to polyetheretherketone fibres: Characterization by different techniques**. Polymer Degradation and Stability. 2014;109:278-284. <https://doi.org/10.1016/j.polymdegradstab.2014.08.003>

Cooper JR, Cook BS, Tentzeris MM. **The first hardware-based, anti-collision methodology for frequency doubling transceivers for RFID and wireless sensing applications**. julkaisussa 2014 IEEE MTT-S International Microwave Symposium, IMS 2014. Institute of Electrical and Electronics Engineers Inc. 2014. 6848626 <https://doi.org/10.1109/MWSYM.2014.6848626>

Wang Q, Sun Z, Rotenberg E, Ronning F, Bauer ED, Lin H et al. **Symmetry-broken electronic structure and uniaxial Fermi surface nesting of untwinned CaFe₂As₂**. Physical Review B. 2013 joulu 26;88(23). 235125. <https://doi.org/10.1103/PhysRevB.88.235125>

Cook BS, Cooper JR, Tentzeris MM. **An inkjet-printed microfluidic rfid-enabled platform for wireless lab-on-chip applications**. IEEE Transactions on Microwave Theory and Techniques. 2013 joulu;61(12):4714-4723. 6670712. <https://doi.org/10.1109/TMTT.2013.2287478>

Diban N, Haimi SP, Bolhuis-Versteeg L, Teixeira S, Miettinen S, Poot AA et al. **Effect of surface morphology of poly(ϵ -caprolactone) scaffolds on adipose stem cell adhesion and proliferation**. Macromolecular symposia. 2013 joulu;334(1):126-132. <https://doi.org/10.1002/masy.201300106>

Gebraad AWH, Miettinen S, Grijpma DW, Haimi SP. **Human adipose stem cells in chondrogenic differentiation medium without growth factors differentiate towards annulus fibrosus phenotype in vitro**. Macromolecular symposia. 2013 joulu;334(1):49-56. <https://doi.org/10.1002/masy.201300104>

German SJ, Behbahani M, Miettinen S, Grijpma DW, Haimi SP. **Proliferation and differentiation of adipose stem cells towards smooth muscle cells on poly(trimethylene carbonate) membranes**. Macromolecular symposia. 2013 joulu;334(1):133-142. <https://doi.org/10.1002/masy.201300100>

Kivistö A, Santala V, Karp M. **Non-sterile process for biohydrogen and 1,3-propanediol production from raw glycerol**. International Journal of Hydrogen Energy. 2013 syys 10;38(27):11749-11755. <https://doi.org/10.1016/j.ijhydene.2013.06.119>

Seppälä JJ, Larjo A, Aho T, Yli-Harja O, Karp MT, Santala V. **Prospecting hydrogen production of Escherichia coli by metabolic network modeling**. International Journal of Hydrogen Energy. 2013 syys 10;38(27):11780-11789. <https://doi.org/10.1016/j.ijhydene.2013.07.002>

Yi X, Cho C, Cooper J, Wang Y, Tentzeris MM, Leon RT. **Passive wireless antenna sensor for strain and crack sensing - Electromagnetic modeling, simulation, and testing**. Smart Materials and Structures. 2013 elo;22(8). 085009. <https://doi.org/10.1088/0964-1726/22/8/085009>

Borah D, Rasappa S, Senthamarai kannan R, Holmes JD, Morris MA. **Tuning PDMS brush chemistry by UV-O3 exposure for PS-b-PDMS microphase separation and directed self-assembly.** Langmuir. 2013 heinä 16;29(28):8959-8968. <https://doi.org/10.1021/la401561k>

Cook BS, Cooper JR, Tentzeris MM. **Multi-layer RF capacitors on flexible substrates utilizing inkjet printed dielectric polymers.** IEEE Microwave and Wireless Components Letters. 2013 heinä;23(7):353-355. 6528029. <https://doi.org/10.1109/LMWC.2013.2264658>

Gordon TR, Paik T, Klein DR, Naik GV, Caglayan H, Boltasseva A et al. **Shape-dependent plasmonic response and directed self-assembly in a new semiconductor building block, indium-doped cadmium oxide (ICO).** Nano Letters. 2013 kesä 12;13(6):2857-2863. <https://doi.org/10.1021/nl4012003>

Thomann O, Pihlatie M, Rautanen M, Himanen O, Lagerbom J, Mäkinen M et al. **Development and application of HVOF sprayed spinel protective coating for SOFC interconnects.** Journal of Thermal Spray Technology. 2013 kesä;22(5):631-639. <https://doi.org/10.1007/s11666-012-9880-9>

Oksa M, Tuurna S, Varis T. **Increased lifetime for biomass and waste to energy power plant boilers with HVOF coatings: High temperature corrosion testing under chlorine-containing molten salt.** Journal of Thermal Spray Technology. 2013 kesä;22(5):783-796. <https://doi.org/10.1007/s11666-013-9928-5>

Pelto JM, Haimi SP, Siljander AS, Miettinen SS, Tappura KM, Higgins MJ et al. **Surface properties and interaction forces of biopolymer-doped conductive polypyrrole surfaces by atomic force microscopy.** Langmuir. 2013 touko 21;29(20):6099-6108. <https://doi.org/10.1021/la4009366>

McManamon C, Delaney P, Kavanagh C, Wang JJ, Rasappa S, Morris MA. **Depth profiling of PLGA copolymer in a novel biomedical bilayer using confocal raman spectroscopy.** Langmuir. 2013 touko 14;29(19):5905-5910. <https://doi.org/10.1021/la400402a>

Rooj S, Das A, Stöckelhuber KW, Wang DY, Galiatsatos V, Heinrich G. **Understanding the reinforcing behavior of expanded clay particles in natural rubber compounds.** Soft Matter. 2013 huhti 14;9(14):3798-3808. <https://doi.org/10.1039/c3sm27519a>

Cochrane C, Mordon SR, Lesage JC, Koncar V. **New design of textile light diffusers for photodynamic therapy.** Materials Science and Engineering C: Materials for Biological Applications. 2013 huhti 1;33(3):1170-1175. <https://doi.org/10.1016/j.msec.2012.12.007>

Borah D, Ozmen M, Rasappa S, Shaw MT, Holmes JD, Morris MA. **Molecularly functionalized silicon substrates for orientation control of the microphase separation of PS-b-PMMA and PS-b-PDMS block copolymer systems.** Langmuir. 2013 maaliskuu 5;29(9):2809-2820. <https://doi.org/10.1021/la304140q>

Barboza R, Bortolozzo U, Assanto G, Residori S. **Optical vortex generation in nematic liquid crystal light valves.** Molecular Crystals and Liquid Crystals. 2013 maaliskuu 1;572(1):24-30. <https://doi.org/10.1080/15421406.2012.763206>

Pitkänen H, Alatalo M, Puisto A, Ropo M, Kokko K, Vitos L. **Ab initio study of the surface properties of austenitic stainless steel alloys.** Surface Science. 2013 maaliskuu;609:190-194. <https://doi.org/10.1016/j.susc.2012.12.007>

Wang J, Ma L, Wang G. **Adsorption behavior and electronic properties of Pd_n (n ≤ 10) clusters on silicon carbide nanotubes: A first-principles study.** Journal of Physics: Condensed Matter. 2013 helmikuu 27;25(8). 085302. <https://doi.org/10.1088/0953-8984/25/8/085302>

Fafarman AT, Hong SH, Caglayan H, Ye X, Diroll BT, Paik T et al. **Chemically tailored dielectric-to-metal transition for the design of metamaterials from nanoimprinted colloidal nanocrystals.** Nano Letters. 2013 helmikuu 13;13(2):350-357. <https://doi.org/10.1021/nl303161d>

Wang H, Feng Y, Zhao H, Fang Z, Khan M, Guo J. **A potential nonthrombogenic small-diameter vascular scaffold with polyurethane/poly(ethylene glycol) hybrid materials by electrospinning technique.** Journal Nanoscience and Nanotechnology. 2013 helmi;13(2):1578-1582. <https://doi.org/10.1166/jnn.2013.6051>

Ma L, Ray AK. **Growth behavior and magnetic properties of spherical uranium oxide nanoclusters.** Journal of Computational and Theoretical Nanoscience. 2013 helmi;10(2):334-340. <https://doi.org/10.1166/jctn.2013.2701>

Quan X, Li R, Tentzeris MM. **A broadband omnidirectional circularly polarized antenna.** IEEE Transactions on Antennas and Propagation. 2013;61(5):2363-2370. 6401161. <https://doi.org/10.1109/TAP.2012.2237532>

De Paolis R, Le T, Coccetti F, Monti G, Tarricone L, Tentzeris MM et al. **A novel circuit model of nanotechnology-enabled inkjet-printed gas sensors using multi-wall carbon nanotubes.** julkaisussa 2013 IEEE MTT-S International Microwave Symposium Digest, MTT 2013. 2013. 6697790 <https://doi.org/10.1109/MWSYM.2013.6697790>

Kim S, Cook B, Cooper J, Traille A, Georgiadis A, Aubert H et al. **A novel dual-band retro-directive reflector array on paper utilizing Substrate Integrated Waveguide (SIW) and inkjet printing technologies for chipless RFID tag and sensor applications.** julkaisussa 2013 IEEE MTT-S International Microwave Symposium Digest, MTT 2013. 2013. 6697704 <https://doi.org/10.1109/MWSYM.2013.6697704>

Cook BS, Cooper JR, Kim S, Tentzeris MM. **A novel inkjet-printed passive microfluidic RFID-based sensing platform.** julkaisussa 2013 IEEE MTT-S International Microwave Symposium Digest, MTT 2013. 2013. 6697592 <https://doi.org/10.1109/MWSYM.2013.6697592>

Vyas R, Cook B, Kawahara Y, Tentzeris M. **A self-sustaining, autonomous, wireless-sensor beacon powered from long-range, ambient, RF energy.** julkaisussa 2013 IEEE MTT-S International Microwave Symposium Digest, MTT 2013. 2013. 6697786 <https://doi.org/10.1109/MWSYM.2013.6697786>

Naishadham K, Li R, Yang L, Wu T, Hunsicker W, Tentzeris M. **A shared-aperture dual-band planar array with self-similar printed folded dipoles.** IEEE Transactions on Antennas and Propagation. 2013;61(2):606-613. 6291750. <https://doi.org/10.1109/TAP.2012.2216491>

Bajas H, Ambrosio G, Anerella M, Bajko M, Bossert R, Caspi S et al. **Cold test results of the LARP HQ Nb₃Sn quadrupole magnet at 1.9 K.** IEEE Transactions on Applied Superconductivity. 2013;23(3). 4002606. <https://doi.org/10.1109/TASC.2013.2245281>

Yi X, Cho C, Cook B, Wang Y, Tentzeris MM, Leon RT. **Design and simulation of a slotted patch antenna sensor for wireless strain sensing.** julkaisussa Nondestructive Characterization for Composite Materials, Aerospace Engineering, Civil Infrastructure, and Homeland Security 2013. Vuosikerta 8694. 2013. 86941J <https://doi.org/10.1117/12.2009233>

Vyas RJ, Cook BB, Kawahara Y, Tentzeris MM. **E-WEHP: A batteryless embedded sensor-platform wirelessly powered from ambient digital-TV signals.** IEEE Transactions on Microwave Theory and Techniques. 2013;61(6):2491-2505. 6513298. <https://doi.org/10.1109/TMTT.2013.2258168>

Kim S, Kawahara Y, Georgiadis A, Collado A, Tentzeris MM. **Low-cost inkjet-printed fully passive RFID tags using metamaterial-inspired antennas for capacitive sensing applications.** julkaisussa 2013 IEEE MTT-S International Microwave Symposium Digest, MTT 2013. 2013. 6697644 <https://doi.org/10.1109/MWSYM.2013.6697644>

Ronkainen H, Kanerva U, Varis T, Ruusuvoori K, Turunen E, Peräntie J et al. **Materials for electronics by thermal spraying.** julkaisussa Physical and Numerical Simulation of Materials Processing VII. Vuosikerta 762. 2013. s. 451-456. (Materials Science Forum). <https://doi.org/10.4028/www.scientific.net/MSF.762.451>

Alatalo M, Pitkänen H, Ropo M, Kokko K, Vitos L. **Modeling of steels and steel surfaces using quantum mechanical first principles methods.** julkaisussa Physical and Numerical Simulation of Materials Processing VII. Vuosikerta 762. 2013. s. 445-450. (Materials Science Forum). <https://doi.org/10.4028/www.scientific.net/MSF.762.445>

Kim S, Mariotti C, Alimenti F, Mezzanotte P, Georgiadis A, Collado A et al. **No battery required: Perpetual rfid-enabled wireless sensors for cognitive intelligence applications.** IEEE Microwave Magazine. 2013;14(5):66-77. 6556093. <https://doi.org/10.1109/MMM.2013.2259398>

Cook BS, Le T, Palacios S, Traille A, Tentzeris MM. **Only skin deep: Inkjet-printed zero-power sensors for large-scale RFID-integrated smart skins.** IEEE Microwave Magazine. 2013;14(3):103-114. 6492192. <https://doi.org/10.1109/MMM.2013.2240855>

Wang H, Feng Y, Fang Z, Yuan W, Khan M. **Co-electrospun blends of PU and PEG as potential biocompatible scaffolds for small-diameter vascular tissue engineering.** Materials Science and Engineering C: Materials for Biological Applications. 2012 joulu 1;32(8):2306-2315. <https://doi.org/10.1016/j.msec.2012.07.001>

Mahimwalla Z, Yager KG, Mamiya JI, Shishido A, Priimagi A, Barrett CJ. **Azobenzene photomechanics: Prospects and potential applications.** Polymer Bulletin. 2012 marras;69(8):967-1006. <https://doi.org/10.1007/s00289-012-0792-0>

Kapgate BP, Das C, Das A, Basu D, Reuter U, Heinrich G. **Effect of sol-gel derived in situ silica on the morphology and mechanical behavior of natural rubber and acrylonitrile butadiene rubber blends.** JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY. 2012 syys;63(3):501-509. <https://doi.org/10.1007/s10971-012-2812-9>

Vikholm-Lundin I, Auer S, Paakkunainen M, Määttä JAE, Munter T, Leppiniemi J et al. **Cysteine-tagged chimeric avidin forms high binding capacity layers directly on gold.** Sensors and Actuators B: Chemical. 2012 elo;171-172:440-448. <https://doi.org/10.1016/j.snb.2012.05.008>

Serak SV, Tabiryann NV, Assanto G. **Nematicons in azobenzene liquid crystals.** Molecular Crystals and Liquid Crystals. 2012 heinä 19;559:202-213. <https://doi.org/10.1080/15421406.2012.658710>

Ananthasayanam B, Joseph PF, Joshi D, Gaylord S, Petit L, Blouin VY et al. **Final shape of precision molded optics: Part II - Validation and sensitivity to material properties and process parameters.** JOURNAL OF THERMAL STRESSES. 2012 heinä 1;35(7):614-636. <https://doi.org/10.1080/01495739.2012.674838>

Priimagi A, Cavallo G, Forni A, Gorynsztejn-Leben M, Kaivola M, Metrangolo P et al. **Halogen bonding versus hydrogen bonding in driving self-assembly and performance of light-responsive supramolecular polymers.** Advanced Functional Materials. 2012 kesä 20;22(12):2572-2579. <https://doi.org/10.1002/adfm.201200135>

Ananthasayanam B, Joseph PF, Joshi D, Gaylord S, Petit L, Blouin VY et al. **Final shape of precision molded optics: Part I - Computational approach, material definitions and the effect of lens shape.** JOURNAL OF THERMAL STRESSES. 2012 kesä 1;35(6):550-578. <https://doi.org/10.1080/01495739.2012.674830>

Subramaniam K, Das A, Häußler L, Harnisch C, Stöckelhuber KW, Heinrich G. **Enhanced thermal stability of polychloroprene rubber composites with ionic liquid modified MWCNTs.** Polymer Degradation and Stability. 2012 touko;97(5):776-785. <https://doi.org/10.1016/j.polymdegradstab.2012.02.001>

Morrison JT, Storm M, Chowdhury E, Akli KU, Feldman S, Willis C et al. **Selective deuteron production using target normal sheath acceleration.** Physics of Plasmas. 2012 maalisk;19(3). 030707. <https://doi.org/10.1063/1.3695061>

Viitala M, Kuisma M, Rantala TT. **Physisorption of benzene on a tin dioxide surface: Van der Waals interaction.** Physical Review B. 2012 helmi 8;85(8):1-5. 085412. <https://doi.org/10.1103/PhysRevB.85.085412>

Vyas R, Nishimoto H, Tentzeris M, Kawahara Y, Asami T. **A battery-less, energy harvesting device for long range scavenging of wireless power from terrestrial TV broadcasts.** julkaisussa IMS 2012 - 2012 IEEE MTT-S International Microwave Symposium. 2012. 6259708 <https://doi.org/10.1109/MWSYM.2012.6259708>

Kim S, Georgiadis A, Collado A, Tentzeris MM. **An inkjet-printed solar-powered wireless beacon on paper for identification and wireless power transmission applications.** IEEE Transactions on Microwave Theory and Techniques. 2012;60(12):4178-4186. 6353235. <https://doi.org/10.1109/TMTT.2012.2222922>

Lee H, Kim S, De Donno D, Tentzeris MM. **A novel Universal inkjet-printed EBG-backed flexible RFID for rugged on-body and metal mounted applications.** julkaisussa IMS 2012 - 2012 IEEE MTT-S International Microwave Symposium. 2012. 6259728 <https://doi.org/10.1109/MWSYM.2012.6259728>

Yang D, Feng Y, Behl M, Lendlein A, Zhao H, Khan M et al. **Biomimetic hemo-compatible surfaces of polyurethane by grafting copolymer brushes of poly(ethylene glycol) and poly(phosphorylcholine methacrylate).** julkaisussa Multifunctional Polymer-Based Materials. Vuosikerta 1403. 2012. s. 171-176 <https://doi.org/10.1557/opl.2012.702>

Borah D, Rasappa S, Kosmala B, Holmes JD, Morris MA. **Block copolymer self-assembly on ethylene glycol (EG) self-assembled monolayer (SAM) for nanofabrication.** julkaisussa Nanoscale Materials Modification by Photon, Ion, and Electron Beams. Vuosikerta 1450. 2012. s. 8-13 <https://doi.org/10.1557/opl.2012.1224>

De Donno D, Lakafosis V, Tarricone L, Tentzeris MM. **Increasing performance of SDR-based collision-free RFID systems.** julkaisussa IMS 2012 - 2012 IEEE MTT-S International Microwave Symposium. 2012. 6259645 <https://doi.org/10.1109/MWSYM.2012.6259645>

Leuteritz A, Kutlu B, Meinel J, Wang D, Das A, Wagenknecht U et al. **Layered Double Hydroxides (LDH): A multifunctional versatile system for nanocomposites.** Molecular Crystals and Liquid Crystals. 2012;556:107-113. <https://doi.org/10.1080/15421406.2012.635923>

De Donno D, Tarricone L, Catarinucci L, Lakafosis V, Tentzeris MM. **Performance enhancement of the RFID EPC Gen2 protocol by exploiting collision re-recovery.** Progress in Electromagnetics Research B. 2012;(43):53-72.

Sane N, Ford J, Harris AI, Bhattacharyya SS. **Prototyping scalable digital signal processing systems for radio astronomy using dataflow models.** Radio Science. 2012;47(3). RS3005. <https://doi.org/10.1029/2011RS004924>

Yi X, Vyas R, Cho C, Fang CH, Cooper J, Wang Y et al. **Thermal effects on a passive wireless antenna sensor for strain and crack sensing.** julkaisussa Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems 2012. Vuosikerta 8345. 2012. 83450F <https://doi.org/10.1117/12.914833>

Georgiadis A, Collado A, Kim S, Lee H, Tentzeris MM. **UHF solar powered active oscillator antenna on low cost flexible substrate for wireless identification applications.** julkaisussa IMS 2012 - 2012 IEEE MTT-S International Microwave Symposium. 2012. 6259643 <https://doi.org/10.1109/MWSYM.2012.6259643>

Assanto G, Marchant TR, Minzoni AA, Smyth NF. **Reorientational versus Kerr dark and gray solitary waves using modulation theory.** Physical Review E. 2011 joulu;9;84(6). 066602. <https://doi.org/10.1103/PhysRevE.84.066602>

Kim ST, Choi J, Chae K, Beck S, Kim SH, Bien F et al. **A non-interruptive link-variation monitoring circuit for wireless sensor applications.** IEEE Microwave and Wireless Components Letters. 2011 joulu;21(12):691-693. 6070987. <https://doi.org/10.1109/LMWC.2011.2170828>

Zhang T, Li R, Jin G, Wei G, Tentzeris MM. **A novel multiband planar antenna for GSM/UMTS/LTE/Zigbee/RFID mobile devices.** IEEE Transactions on Antennas and Propagation. 2011 marras;59(11):4209-4214. 5979187. <https://doi.org/10.1109/TAP.2011.2164201>

Pakarinen OM, Kaparaju PLN, Rintala JA. **Hydrogen and methane yields of untreated, water-extracted and acid (HCl) treated maize in one- and two-stage batch assays.** International Journal of Hydrogen Energy. 2011 marras;36(22):14401-14407. <https://doi.org/10.1016/j.ijhydene.2011.08.028>

Zhong WP, Belić MR, Assanto G. **Localized nonlinear wavepackets with radial-azimuthal modulated nonlinearity and an external potential.** Physica Scripta. 2011 marras;84(5). 055001. <https://doi.org/10.1088/0031-8949/84/05/055001>

Wang J, Ray AK. **Adsorption and dissociation of molecular oxygen on α -Pu (0 2 0) surface: A density functional study.** Physica B: Condensed Matter. 2011 syys 1;406(17):3285-3294. <https://doi.org/10.1016/j.physb.2011.05.041>

Vikholm-Lundin I, Auer S, Hellgren AC. **Detection of 3,4-methylenedioxymethamphetamine (MDMA, ecstasy) by displacement of antibodies.** Sensors and Actuators B: Chemical. 2011 elo 10;156(1):28-34. <https://doi.org/10.1016/j.snb.2011.03.069>

Uusitalo MA, Peltonen J, Ryhänen T. **Machine learning: How it can help nanocomputing.** Journal of Computational and Theoretical Nanoscience. 2011 elo;8(8):1347-1363. <https://doi.org/10.1166/jctn.2011.1821>

Ropo M, Kokko K, Airiskallio E, Punkkinen MPJ, Hogmark S, Kollr J et al. **First-principles atomistic study of surfaces of Fe-rich Fe-Cr.** Journal of Physics: Condensed Matter. 2011 heinä 6;23(26). 265004. <https://doi.org/10.1088/0953-8984/23/26/265004>

Assanto G, Garca-Reimbert C, Minzoni AA, Smyth NF, Worthy AL. **Lagrange solution for three wavelength solitary wave clusters in nematic liquid crystals.** Physica D: Nonlinear Phenomena. 2011 kesä 15;240(14-15):1213-1219. <https://doi.org/10.1016/j.physd.2011.04.019>

Bottura L, Bonasia A, Borgnolutti F, Gaertner W, Le Naour S, Oberli L et al. **Strand and cable R&D for fast cycled magnets at CERN.** IEEE Transactions on Applied Superconductivity. 2011 kesä;21(3 PART 2):2354-2358. <https://doi.org/10.1109/TASC.2011.2105236>

Zhong WP, Belić M, Assanto G, Huang T. **Three-dimensional spatiotemporal vector solitary waves.** JOURNAL OF PHYSICS B: ATOMIC MOLECULAR AND OPTICAL PHYSICS. 2011 touko 14;44(9). 095403. <https://doi.org/10.1088/0953-4075/44/9/095403>

Borah D, Shaw MT, Rasappa S, Farrell RA, O'Mahony C, Faulkner CM et al. **Plasma etch technologies for the development of ultra-small feature size transistor devices.** Journal of Physics D: Applied Physics. 2011 touko 4;44(17). 174012. <https://doi.org/10.1088/0022-3727/44/17/174012>

Ma L, Ray AK. **An ab initio study of $\text{PuO}_{2+0.25}$, $\text{UO}_{2+0.25}$, and $\text{U}_{0.5}\text{Pu}_{0.5}\text{O}_{2+0.25}$** European Physical Journal B. 2011 touko;81(1):103-113. <https://doi.org/10.1140/epjb/e2011-10759-0>

Manna M, Mukhopadhyay C. **Molecular dynamics simulations of the interactions of kinin peptides with an anionic POPG bilayer.** Langmuir. 2011 huhti 5;27(7):3713-3722. <https://doi.org/10.1021/la104046z>

Sorianello V, Colace L, Assanto G, Nardone M. **Micro-Raman characterization of Germanium thin films evaporated on various substrates.** Microelectronic Engineering. 2011 huhti;88(4):492-495. <https://doi.org/10.1016/j.mee.2010.10.028>

Colace L, Sorianello V, Romagnoli M, Socci L, Assanto G. **Optical power monitors in Ge monolithically integrated on SOI chips.** Microelectronic Engineering. 2011 huhti;88(4):514-517. <https://doi.org/10.1016/j.mee.2010.10.033>

Sorianello V, Colace L, Assanto G, Notargiacomo A, Armani N, Rossi F et al. **Thermal evaporation of Ge on Si for near infrared detectors: Material and device characterization.** Microelectronic Engineering. 2011 huhti;88(4):526-529. <https://doi.org/10.1016/j.mee.2010.09.024>

Potapov I, Volkov E, Kuznetsov A. **Dynamics of coupled repressilators: The role of mRNA kinetics and transcription cooperativity.** Physical Review E. 2011 maalis 4;83(3). 031901. <https://doi.org/10.1103/PhysRevE.83.031901>

Alimenti F, Virili M, Orecchini G, Mezzanotte P, Palazzari V, Tentzeris MM et al. **A new contactless assembly method for paper substrate antennas and UHF RFID chips.** IEEE Transactions on Microwave Theory and Techniques. 2011 maalis;59(3):627-637. 5705525. <https://doi.org/10.1109/TMTT.2010.2103210>

Lisjak D, Lintunen P, Hujanen A, Varis T, Bolelli G, Lusvarghi L et al. **Hexaferrite/polyethylene Composite coatings prepared with flame spraying.** Materials Letters. 2011 helmi 15;65(3):534-536. <https://doi.org/10.1016/j.matlet.2010.10.076>

Petelenz P, Kulig W. **Absorption profile and femtosecond intraband relaxation of the intense upper Davydov component in oligothiophenes.** Physica Status Solidi B: Basic Solid State Physics. 2011 helmi;248(2):412-415. <https://doi.org/10.1002/pssb.201000640>

Lakafosis V, Traille A, Lee H, Gebara E, Tentzeris MM, Dejean GR et al. **RF fingerprinting physical objects for anticounterfeiting applications.** IEEE Transactions on Microwave Theory and Techniques. 2011 helmi;59(2):504-514. 5676219. <https://doi.org/10.1109/TMTT.2010.2095030>

Gupta SK, Wu HH, Kwak KJ, Casal P, Nicholson TR, Wen X et al. **Interfacial design and structure of protein/polymer films on oxidized AlGaN surfaces.** Journal of Physics D: Applied Physics. 2011 tammi 26;44(3). 34010. <https://doi.org/10.1088/0022-3727/44/3/034010>

Gilardi G, Asquini R, D'Alessandro A, Assanto G. **An electro-optically tunable Bragg reflector based on liquid crystals.** Molecular Crystals and Liquid Crystals. 2011;549:62-68. <https://doi.org/10.1080/15421406.2011.581137>

Lee H, Shaker G, Naishadham K, Song X, McKinley M, Wagner B et al. **Carbon-nanotube loaded antenna-based ammonia gas sensor.** IEEE Transactions on Microwave Theory and Techniques. 2011;59(10 PART 2):2665-2673. 6016223. <https://doi.org/10.1109/TMTT.2011.2164093>

De Paolis R, Pacchini S, Coccetti F, Monti G, Tarricone L, Tentzeris MM et al. **Circuit model of carbon-nanotube inks for microelectronic and microwave tunable devices.** julkaisussa 2011 IEEE MTT-S International Microwave Symposium, IMS 2011. 2011. 5972853 <https://doi.org/10.1109/MWSYM.2011.5972853>

Occhiuzzi C, Rida A, Marrocco G, Tentzeris MM. **CNT-based RFID passive gas sensor.** julkaisussa 2011 IEEE MTT-S International Microwave Symposium, IMS 2011. 2011. 5972715 <https://doi.org/10.1109/MWSYM.2011.5972715>

Thai TT, Aubert H, Pons P, Tentzeris MM, Plana R. **Design of a highly sensitive wireless passive RF strain transducer.** julkaisussa 2011 IEEE MTT-S International Microwave Symposium, IMS 2011. 2011. 5972980 <https://doi.org/10.1109/MWSYM.2011.5972980>

Lagerbom J, Ritvonen T, Suhonen T, Varis T. **Gas atomized thermal spray powders of various metals and alloys.** julkaisussa Proceedings of the Euro International Powder Metallurgy Congress and Exhibition, Euro PM 2011. Vuosikerta 2. European Powder Metallurgy Association (EPMA). 2011

Sapaev UK, Yusupov DB, Assanto G. **Multicolor nonlinear pulse compression by consecutive optical parametric amplification in quasi-phase matched structures.** julkaisussa ICONO 2010: International Conference on Coherent and Nonlinear Optics. Vuosikerta 7993. 2011. 79930Q <https://doi.org/10.1117/12.882887>

Traille A, Tentzeris MM. **Multi-resolution time-domain and level-set techniques for multi-domain/multi-physics/multi-phase simulations.** julkaisussa 2011 IEEE MTT-S International Microwave Symposium, IMS 2011. 2011. 5972741 <https://doi.org/10.1109/MWSYM.2011.5972741>

Occhiuzzi C, Rida A, Marrocco G, Tentzeris M. **RFID passive gas sensor integrating carbon nanotubes.** IEEE Transactions on Microwave Theory and Techniques. 2011;59(10 PART 2):2674-2684. 6003806. <https://doi.org/10.1109/TMTT.2011.2163416>

Yi X, Wu T, Lantz G, Wang Y, Leon RT, Tentzeris MM. **Thickness variation study of RFID-based folded patch antennas for strain sensing.** julkaisussa Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems 2011. Vuosikerta 7981. 2011. 79811H <https://doi.org/10.1117/12.879868>

Orecchini G, Yang L, Tentzeris MM, Roselli L. **Wearable battery-free active paper printed RFID tag with human-energy scavenger.** julkaisussa 2011 IEEE MTT-S International Microwave Symposium, IMS 2011. 2011. 5972808 <https://doi.org/10.1109/MWSYM.2011.5972808>

Rondin L, Dantelle G, Slablab A, Grosshans F, Treussart F, Bergonzo P et al. **Surface-induced charge state conversion of nitrogen-vacancy defects in nanodiamonds.** Physical Review B. 2010 syys 28;82(11). 115449. <https://doi.org/10.1103/PhysRevB.82.115449>

Dantelle G, Slablab A, Rondin L, Lainé F, Carrel F, Bergonzo P et al. **Efficient production of NV colour centres in nanodiamonds using high-energy electron irradiation.** Journal of Luminescence. 2010 syys;130(9):1655-1658. <https://doi.org/10.1016/j.jlumin.2009.12.003>

Emmert-Streib F. **Exploratory analysis of spatiotemporal patterns of cellular automata by clustering compressibility.** Physical Review E. 2010 helmi 8;81(2). 026103. <https://doi.org/10.1103/PhysRevE.81.026103>

Caglayan H, Özbay E. **Observation of cavity structures in composite metamaterials.** Journal of Nanophotonics. 2010;4(1). 041790. <https://doi.org/10.1117/1.3475763>

Emmert-Streib F, Dehmer M. **Fault tolerance of information processing in gene networks.** Physica A: Statistical Mechanics and Its Applications. 2009 helmi 15;388(4):541-548. <https://doi.org/10.1016/j.physa.2008.10.032>

Caglayan H, Bulu I, Ozbay E. **Observation of off-axis directional beaming via subwavelength asymmetric metallic gratings.** Journal of Physics D: Applied Physics. 2009;42(4). 045105. <https://doi.org/10.1088/0022-3727/42/4/045105>

Caglayan H, Ozbay E. **The magical world of metamaterials.** julkaisussa Photonic Materials, Devices, and Applications III. Vuosikerta 7366. 2009. 73660X. (Proceedings of SPIE). <https://doi.org/10.1117/12.821407>

Caglayan H, Bulu I, Loncar M, Ozbay E. **Cavity formation in split ring resonators.** Photonics and Nanostructures - Fundamentals and Applications. 2008 joulu;6(3-4):200-204. <https://doi.org/10.1016/j.photonics.2008.09.001>

Papadimitriou C, Kalimeri M, Eftaxias K. **Nonextensivity and universality in the earthquake preparation process.** Physical Review E. 2008 maaliskuu 3;77(3). 036101. <https://doi.org/10.1103/PhysRevE.77.036101>

Özbay E, Bulu I, Caglayan H. **Transmission, refraction, and focusing properties of labyrinth based left-handed metamaterials.** Physica Status Solidi (B) Basic Research. 2007 huhti;244(4):1202-1210. <https://doi.org/10.1002/pssb.200674507>

Bulu I, Caglayan H, Ozbay E. **Designing materials with desired electromagnetic properties.** Microwave and Optical Technology Letters. 2006 joulu;48(12):2611-2615. <https://doi.org/10.1002/mop.21988>

Ozbay E, Bulu I, Caglayan H. **Labyrinth based left-handed metamaterials and sub-wavelength focusing of electromagnetic waves.** julkaisussa Photonic Crystal Materials and Devices IV. Vuosikerta 6128. 2006. 612813. (Proceedings of SPIE). <https://doi.org/10.1117/12.649548>

Wojdyła M, Bała W, Derkowska B, Łukasiak Z, Czaplicki R, Sofiani Z et al. **Photoluminescence and third harmonic generation in ZnPc thin films.** Nonlinear Optics, Quantum Optics. 2006;35(1-3):103-119.

Bulu I, Caglayan H, Ozbay E. **Negative refraction and focusing of electromagnetic waves by metallodielectric photonic crystals**. Physical Review B - Condensed Matter and Materials Physics. 2005 heinä 15;72(4). 045124. <https://doi.org/10.1103/PhysRevB.72.045124>

Ozbay E, Bulu I, Aydin K, Caglayan H, Alici KB, Guven K. **Highly directive radiation and negative refraction using photonic crystals**. Laser Physics. 2005 helmi;15(2):217-224.

Söderlund M, Koponen J, Tammela S, Philippov V, Po H. **Design considerations for large-mode-area polarization maintaining double clad fibers**. julkaisussa Driggers RG, Huckridge DA, toimittajat, Proceedings of SPIE - The International Society for Optical Engineering. Vuosikerta 5987. 2005. 59870A <https://doi.org/10.1117/12.630474>

Caglayan H, Bulu I, Ozbay E. **Highly directional enhanced radiation from sources embedded inside two and three-dimensional photonic crystals**. julkaisussa Proceedings of SPIE. Vuosikerta 5733. SPIE. 2005. s. 131-141. (Proceedings of SPIE). <https://doi.org/10.1117/12.587503>

Payne DN, Jeong Y, Nilsson J, Sahu JK, Soh DBS, Alegria C et al. **Kilowatt-class single-frequency fiber sources**. julkaisussa Durvasula LN, Brown AJW, Nilsson J, toimittajat, Proceedings of SPIE - The International Society for Optical Engineering. Vuosikerta 5709. 2005. s. 133-141. 22 <https://doi.org/10.1117/12.601145>

Ozbay E, Bulu I, Aydin K, Caglayan H, Guven K. **Physics and applications of photonic crystals**. Photonics and Nanostructures - Fundamentals and Applications. 2004 loka;2(2):87-95. <https://doi.org/10.1016/j.photonics.2004.08.001>

Bulu I, Caglayan H, Ozbay E. **Radiation properties of sources inside photonic crystals**. Physical Review B - Condensed Matter and Materials Physics. 2003 touko 15;67(20). <https://doi.org/10.1103/PhysRevB.67.205103>

Rantala TT, Rantala TS, Lantto V. **Surface relaxation of the (110) face of rutile SnO₂**. Surface Science. 1999 tammi 11;420(1):103-109. [https://doi.org/10.1016/S0039-6028\(98\)00833-4](https://doi.org/10.1016/S0039-6028(98)00833-4)

Valkealahti S, Manninen M. **Diffusion on aluminum-cluster surfaces and the cluster growth**. Physical Review B - Condensed Matter and Materials Physics. 1998 tammi 1;57(24):15533-15540. <https://doi.org/10.1103/PhysRevB.57.15533>

Grigore V, Hatonen J, Kyyra J, Suntio T. **Dynamics of a buck converter with a constant power load**. julkaisussa PESC 1998 - 29th Annual IEEE Power Electronics Specialists Conference. Institute of Electrical and Electronics Engineers Inc. 1998. s. 72-78. 701881. (PESC Record - IEEE Annual Power Electronics Specialists Conference). <https://doi.org/10.1109/PESC.1998.701881>

Valkealahti S, Manninen M. **Molecular dynamics simulation of crystallization of liquid copper clusters**. Journal of Physics Condensed Matter. 1997 touko 19;9(20):4041-4050. <https://doi.org/10.1088/0953-8984/9/20/004>

Lorimer GW, Dicken R, Peura P, Pilkington R, Younes CM, Allen GC et al. **The effect of phosphorous and arsenic on the fracture behaviour of a 2,25% Cr-1% Mo Steel**. Materials Science Forum. 1996 joulu 1;207-209(PART 2):645-648.

Rantala TT, Rantala TS, Lantto V, Vaara J. **Surface relaxation of the (1010) face of wurtzite CdS**. Surface Science. 1996 touko 15;352-354:77-82. [https://doi.org/10.1016/0039-6028\(95\)01094-7](https://doi.org/10.1016/0039-6028(95)01094-7)

Valkealahti S, Näher U, Manninen M. **Epitaxial growth of fcc clusters**. Physical Review B. 1995 tammi 1;51(16):11039-11042. <https://doi.org/10.1103/PhysRevB.51.11039>

Valkealahti S, Manninen M. **Simulation of cluster growth using a lattice gas model**. Physical Review B. 1994 tammi 1;50(23):17564-17574. <https://doi.org/10.1103/PhysRevB.50.17564>

Valkealahti S, Manninen M. **Instability of cuboctahedral copper clusters**. Physical Review B. 1992 tammi 1;45(16):9459-9462. <https://doi.org/10.1103/PhysRevB.45.9459>

Milne D, Wilson JIB, Rantala TT, Lenkkeri J. **Morphological and structural changes in laser CVD of silicon: comparison of theoretical temperature calculations with experimental results.** Applied Surface Science. 1989 joulu 2;43(1-4):81-86. [https://doi.org/10.1016/0169-4332\(89\)90194-3](https://doi.org/10.1016/0169-4332(89)90194-3)

Valkealahti S, Welch DO. **Theoretical studies of structural properties of the high- T_c superconductor $Y_1Ba_2Cu_3O_{7-x}$.** Physica C: Superconductivity and its Applications. 1989 tammi 1;162-164(PART 1):540-541. [https://doi.org/10.1016/0921-4534\(89\)91145-3](https://doi.org/10.1016/0921-4534(89)91145-3)

Levoska J, Rantala TT, Lenkkeri J. **Numerical simulation of temperature distributions in layered structures during laser processing.** Applied Surface Science. 1989;36(1-4):12-22. [https://doi.org/10.1016/0169-4332\(89\)90895-7](https://doi.org/10.1016/0169-4332(89)90895-7)

Valkealahti S, Nieminen RM. **Molecular dynamics investigation of the premelting effects of lennard-jones (111) surfaces.** Physica Scripta. 1987 loka 1;36(4):646-650. <https://doi.org/10.1088/0031-8949/36/4/007>

Mäkinen J, Vehanen A, Hautojärvi P, Huomo H, Lahtinen J, Nieminen RM et al. **Vacancy-type defect distributions near argon sputtered Al(100) surface studied by variable-energy positrons and molecular dynamics simulations.** Surface Science. 1986 syys 2;175(2):385-414. [https://doi.org/10.1016/0039-6028\(86\)90242-6](https://doi.org/10.1016/0039-6028(86)90242-6)

Rantala TT, Rosén A, Hellsing B. **A Finite Cluster Approach to the Electron-Hole Pair Damping of the Adsorbate Vibration: CO Adsorbed on Cu(100).** Studies in Surface Science and Catalysis. 1986;26(C):173-181. [https://doi.org/10.1016/S0167-2991\(09\)61238-6](https://doi.org/10.1016/S0167-2991(09)61238-6)

Rantala TT, Rosén A. **Electronic damping of adsorbate motion: CO vibration on the Cu(100) surface.** Physical Review B. 1986;34(2):837-842. <https://doi.org/10.1103/PhysRevB.34.837>

Vehanen A, Mäkinen J, Hautojärvi P, Huomo H, Lahtinen J, Nieminen RM et al. **Near-surface defect profiling with slow positrons: Argon-sputtered Al(110).** Physical Review B. 1985 tammi 1;32(11):7561-7563. <https://doi.org/10.1103/PhysRevB.32.7561>

Rantala TT. **Spin-density calculations for core-electron photoemission and Auger electron line shapes, x-ray-edge exponents, and solid-state shifts.** Physical Review B. 1983;28(6):3182-3192. <https://doi.org/10.1103/PhysRevB.28.3182>

Rantala T, Väyrynen J, Kumpula R, Aksela S. **Direct measurement of the kinetic energy shift between the molecular and atomic M4.5N4.5N4.5 Auger spectra of iodine.** Chemical Physics Letters. 1979 loka 1;66(2):384-386. [https://doi.org/10.1016/0009-2614\(79\)85040-X](https://doi.org/10.1016/0009-2614(79)85040-X)

Kumpula R, Väyrynen J, Rantala T, Aksela S. **Direct measurement of vapour-metal shifts in photo- and Auger electron spectra of Zn and Cd.** Journal of physics c-Solid state physics. 1979;12(21). 001. <https://doi.org/10.1088/0022-3719/12/21/001>

Pessa M, Vuoristo A, Vulli M, Aksela S, Väyrynen J, Rantala T et al. **Solid-state effects in M4,5N4,5N4,5 Auger spectra of elements from In49 to Te52.** Physical Review B. 1979;20(8):3115-3123. <https://doi.org/10.1103/PhysRevB.20.3115>