

Santa-aho S, Laitinen A, Sorsa A, Vippola M. 2019. Barkhausen Noise Probes and Modelling: A Review. *Journal of Nondestructive Evaluation*. 38(4). <https://doi.org/10.1007/s10921-019-0636-z>

Coatanéa E, Ritola T, Tumer IY, Jensen D. 2010. A framework for building behavioral models for design-stage failure identification using dimensional analysis. teoksessa *Proceedings of the ASME Design Engineering Technical Conference. AMER SOC MECHANICAL ENGINEERS*. Sivut 591-601. <https://doi.org/10.1115/DETC2010-28864>

Saintsing CD, Cook BS, Tentzeris MM. 2014. An origami inspired reconfigurable spiral antenna. teoksessa *38th Mechanisms and Robotics Conference. The American Society of Mechanical Engineers ASME*. <https://doi.org/10.1115/DETC201435353>

Pyrhönen V-P, Koivisto H, Vilkkio M. 2017. A Reduced-Order Two-Degree-of-Freedom Composite Nonlinear Feedback Control for a Rotary DC Servo Motor. teoksessa *Proceedings of the 56th IEEE Conference on Decision and Control*. Melbourne, Australia. Sivut 2065-2071. <https://doi.org/10.1109/CDC.2017.8263951>

Caraffi C, Vojir T, Trefný J, Šochman J, Matas J. 2012. A system for real-time detection and tracking of vehicles from a single car-mounted camera. teoksessa *2012 15th International IEEE Conference on Intelligent Transportation Systems, ITSC 2012*. Sivut 975-982. <https://doi.org/10.1109/ITSC.2012.6338748>

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

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

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

Ghabcheloo R, Siddiqui S. 2018. Complete Odometry Estimation of a Vehicle Using Single Automotive Radar and a Gyroscope. teoksessa *MED 2018 - 26th Mediterranean Conference on Control and Automation. IEEE*. Sivut 855-860. <https://doi.org/10.1109/MED.2018.8442474>

Di Vito D, Mosallaei M, Vahed BK, Kanerva M, Mäntysalo M. 2020. Deformability analysis and improvement in stretchable electronics systems through finite element analysis. Carcaterra A, Graziani G, Paolone A, Toimittajat. teoksessa *Proceedings of XXIV AIMETA Conference 2019. Springer*. Sivut 755-763. (Lecture Notes in Mechanical Engineering). [https://doi.org/10.1007/978-3-030-41057-5\\_61](https://doi.org/10.1007/978-3-030-41057-5_61)

Cao X, Aref MM, Mattila J. 2019. Design and Control of a Flexible Joint as a Hydraulic Series Elastic Actuator for Manipulation Applications. teoksessa *Proceedings of the IEEE 2019 9th International Conference on Cybernetics and Intelligent Systems and Robotics, Automation and Mechatronics, CIS and RAM 2019. IEEE*. Sivut 553-558. (IEEE International Conference on Cybernetics and Intelligent Systems). <https://doi.org/10.1109/CIS-RAM47153.2019.9095773>

Hartikainen J, Kolari K, Kouhia R. 2016. Development and numerical implementation of an anisotropic continuum damage model for concrete. teoksessa *Advances in Fracture and Damage Mechanics XV. Trans Tech Publications Ltd*. Sivut 115-118. (Key Engineering Materials). <https://doi.org/10.4028/www.scientific.net/KEM.713.115>

Hokka M, Mirow N, Nagel H, Vogt S, Kuokkala V-T. 2016. DIC measurements of the human heart during cardiopulmonary bypass surgery. teoksessa *Conference Proceedings of the Society for Experimental Mechanics Series. Springer New York LLC*. Sivut 51-59. [https://doi.org/10.1007/978-3-319-21455-9\\_6](https://doi.org/10.1007/978-3-319-21455-9_6)

Soltani A, Curtze S, Lahti J, Järvelä K, Laurikka J, Hokka M, Kuokkala VT. 2018. Digital image correlation study of the deformation and functioning of the human heart during open-heart surgery. teoksessa *Mechanics of Biological Systems, Materials and other topics in Experimental and Applied Mechanics - Proceedings of the 2017 Annual Conference on Experimental and Applied Mechanics*. Springer New York LLC. Sivut 19-27. (Conference Proceedings of the Society for Experimental Mechanics). [https://doi.org/10.1007/978-3-319-63552-1\\_4](https://doi.org/10.1007/978-3-319-63552-1_4)

Wu D, Coatanea E, Wang GG. 2017. Dimension reduction and decomposition using causal graph and qualitative analysis for aircraft concept design optimization. teoksessa *43rd Design Automation Conference*. The American Society of Mechanical Engineers ASME. <https://doi.org/10.1115/DETC201767601>

Rossi M, Liegmann E, Karamanakos P, Castelli-Dezza F, Kennel R. 2019. Direct model predictive power control of a series-connected modular rectifier. teoksessa *PRECEDE 2019: 2019 IEEE International Symposium on Predictive Control of Electrical Drives and Power Electronics*. IEEE. Sivut 1-6. <https://doi.org/10.1109/PRECEDE.2019.8753318>

Suokas E. 2017. Effect of air gap on the adhesion of PET layer on cardboard substrate in extrusion coating. teoksessa *16th TAPPI European PLACE Conference 2017*. TAPPI Press. Sivut 529-544.

Suokas E. 2019. Effect of polyolefin molecular structure on product properties in extrusion coating. teoksessa *17th Biennial TAPPI European PLACE Conference 2019*. TAPPI Press. Sivut 89-98.

Vähä-Nissi M, Hirvikorpi T, Sievänen J, Salo E, Harlin A, Johansson P, Kuusipalo J. 2011. Effect of pre-treatments on barrier properties of layers applied by atomic layer deposition onto polymer-coated substrates. teoksessa *13th European PLACE Conference 2011*. Sivut 447.

Rasilo P, Belahcen A, Arkkio A. 2012. Effect of rotor pole-shoe construction on losses of inverter-fed synchronous motors. teoksessa *Proceedings - 2012 20th International Conference on Electrical Machines, IECM 2012*. Sivut 1282-1286. <https://doi.org/10.1109/ICEIMach.2012.6350042>

Vazquez Fernandez N, Isakov M, Hokka M, Kuokkala VT. 2018. Effects of adiabatic heating estimated from tensile tests with continuous heating. teoksessa *Dynamic Behavior of Materials - Proceedings of the 2017 Annual Conference on Experimental and Applied Mechanics*. Springer New York LLC. Sivut 1-7. (Conference Proceedings of the Society for Experimental Mechanics). [https://doi.org/10.1007/978-3-319-62956-8\\_1](https://doi.org/10.1007/978-3-319-62956-8_1)

Mäkinen J, Fränti K, Korhonen M, Fillion J, Heinisuo M. 2016. End-plate connections in Bi-axial bending - Measurements. Mazzolani FM, Squillace A, Faggiano B, Bellucci F, Toimittajat. teoksessa *13th International Aluminium Conference, Sustainability, Durability and Structural Advantages, : INALCO 2016; Naples; Italy; 21 September 2016 through 23 September 2016*. Trans Tech Publications Ltd. Sivut 275-280. (Key Engineering Materials). <https://doi.org/10.4028/www.scientific.net/KEM.710.275>

Mendes MR, Subramaniyam NP, Wendel-Mitoraj K. 2015. Evaluating the electrode measurement sensitivity of subdermal electroencephalography electrodes. teoksessa *International IEEE/EMBS Conference on Neural Engineering, NER*. IEEE COMPUTER SOCIETY PRESS. Sivut 1092-1095. <https://doi.org/10.1109/NER.2015.7146818>

Medyna G, Coatanea E, Millet D. 2011. Evaluation of parts of a boat cabin based on exergy - Focusing on environmental and economic assessments. teoksessa *ASME 2011 International Mechanical Engineering Congress and Exposition, IMECE 2011. PARTS A AND B toim. AMER SOC MECHANICAL ENGINEERS*. Sivut 1083-1092.

Koivikko A, Sariola V. 2019. Fabrication of soft devices with buried fluid channels by using sacrificial 3D printed molds. teoksessa *2019 2nd IEEE International Conference on Soft Robotics (RoboSoft)*. IEEE. Sivut 509-513. <https://doi.org/10.1109/ROBOSOFT.2019.8722741>

Far MF, Mustafa B, Martin F, Rasilo P, Belahcen A. 2018. Flux-Weakening Control for IPMSM Employing Model Order Reduction. teoksessa *2018 23rd International Conference on Electrical Machines, IECM 2018*. IEEE. Sivut 1510-1516. <https://doi.org/10.1109/ICELMACH.2018.8506693>

Mäenpää P, Aref MM, Mattila J. 2019. FORMI: A Fast Holonomic Path Planning and Obstacle Representation Method Based on Interval Analysis. teoksessa Proceedings of the IEEE 2019 9th International Conference on Cybernetics and Intelligent Systems and Robotics, Automation and Mechatronics, CIS and RAM 2019. IEEE. Sivut 398-403. (IEEE International Conference on Cybernetics and Intelligent Systems). <https://doi.org/10.1109/CIS-RAM47153.2019.9095822>

Ellman A, Wendrich R, Tiainen T. 2016. Framework and feasibility study for pairwise comparison tool. teoksessa Proceedings of the ASME 2016 Computers and Information in Engineering Conference IDETC/CIE 2016. Charlotte, North Carolina: ASME. <https://doi.org/10.1115/DETC2016-59886>

Coatanéa E, Nonsiri S, Christophe F, Mokammel F. 2014. Graph based representation and analyses for conceptual stages. teoksessa 34th Computers and Information in Engineering Conference. The American Society of Mechanical Engineers ASME. <https://doi.org/10.1115/DETC201435652>

Mikkonen A, Karvinen R. 2017. Heat Transfer of Impinging Jet: Effect of Compressibility and Turbulent Kinetic Energy Production. teoksessa IX International Conference on Computational Heat and Mass Transfer (ICCHMT 2016) .

Hokka M, Östman K, Rämö J, Kuokkala VT. 2015. High Temperature Tension HSB Device Based on Direct Electrical Heating. Song B, Casem D, Kimberley J, Toimittajat. teoksessa Dynamic Behavior of Materials, Volume 1: Proceedings of the 2014 Annual Conference on Experimental and Applied Mechanics. Springer. Sivut 227-233. (Conference Proceedings of the Society for Experimental Mechanics Series). [https://doi.org/10.1007/978-3-319-06995-1\\_34](https://doi.org/10.1007/978-3-319-06995-1_34)

Lahtinen K, Lahti J, Johansson P, Seppänen T, Cameron DC. 2013. Improving the effect of a nanoscale barrier coating on BOPP film properties by surface pretreatments. teoksessa 14th European PLACE Conference 2013. TAPPI Press. Sivut 469-493.

Lahti J, Johansson P, Lahtinen K, Cameron DC, Seppänen T. 2014. Improving the effect of nanoscale barrier coating on BOPP film properties: Influence of substrate contamination, web handling and pretreatments. teoksessa TAPPI PLACE Conference 2014. TAPPI Press. Sivut 1039-1061.

Mäkinen P, Mononen T, Mattila J. 2018. Inertial Sensor-Based State Estimation of Flexible Links Subject to Bending and Torsion. teoksessa 2018 14th IEEE/ASME International Conference on Mechatronic and Embedded Systems and Applications, MESA 2018. IEEE. <https://doi.org/10.1109/MESA.2018.8449188>

Singh AK, Ahonen A, Ghabcheloo R, Mueller A. 2020. Introducing Multi-Convexity in Path Constrained Trajectory Optimization for Mobile Manipulators. teoksessa European Control Conference 2020, ECC 2020. IEEE. Sivut 1178-1185.

Coatanéa E, Wu D, Tsarkov V, Gary Wang G, Modi S, Jafarian H. 2018. Knowledge-based artificial neural network (KB-ANN) in engineering: Associating functional architecture modeling, dimensional analysis and causal graphs to produce optimized topologies for KB-ANNs. teoksessa 38th Computers and Information in Engineering Conference. The American Society of Mechanical Engineers ASME. <https://doi.org/10.1115/DETC201885895>

Palagi S, Mark AG, Melde K, Qiu T, Zeng H, Parmeggiani C, Martella D, Wiersma DS, Fischer P. 2017. Locomotion of light-driven soft microrobots through a hydrogel via local melting. teoksessa International Conference on Manipulation, Automation and Robotics at Small Scales, MARSS 2017 - Proceedings. IEEE. <https://doi.org/10.1109/MARSS.2017.8001916>

Lahti J. 2019. Market implementation of active and intelligent packaging-opportunities from a socio-economic perspective. teoksessa 17th Biennial TAPPI European PLACE Conference 2019. TAPPI Press. Sivut 419-427.

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

Pylkkänen K, Nurmikolu A, Guthrie WS, Argyle HM. 2015. Measurements and Modeling of Frost Depth in Railway Tracks. teoksessa Proceedings of the International Conference on Cold Regions Engineering: 16th International Conference on Cold Regions Engineering 2015. American Society of Civil Engineers ASCE. Sivut 123-134. <https://doi.org/10.1061/9780784479315.012>

Coatanéa E, Yannou B, Honkala S, Lajunen A, Saarelainen T, Makkonen P. 2008. Measurement theory and dimensional analysis: Methodological impact on the comparison and evaluation process. teoksessa 19th International Conference on Design Theory and Methodology and 1st International Conference on Micro and Nano Systems, presented at - 2007 ASME International Design Engineering Technical Conferences and Computers and Information in Engineering Conference, IDETC/CIE2007. AMER SOC MECHANICAL ENGINEERS. Sivut 173-182. <https://doi.org/10.1115/DETC2007-34364>

Liikanen H, Aref MM, Mattila J. 2019. M-Estimator Application in Real-Time Sensor Fusion for Smooth Position Feedback of Heavy-Duty Field Robots. teoksessa Proceedings of the IEEE 2019 9th International Conference on Cybernetics and Intelligent Systems (CIS) and IEEE Conference on Robotics, Automation and Mechatronics (RAM). IEEE. Sivut 368-373. (IEEE International Conference on Cybernetics and Intelligent Systems). <https://doi.org/10.1109/CIS-RAM47153.2019.9095821>

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

Far MF, Mukherjee V, Martin F, Rasilo P, Belahcen A. 2018. Model Order Reduction of Bearingless Reluctance Motor Including Eccentricity. teoksessa 2018 23rd International Conference on Electrical Machines, ICEM 2018. IEEE. Sivut 2243-2249. <https://doi.org/10.1109/ICELMACH.2018.8506758>

Banichuk N, Ivanova S, Jeronen J. 2020. Moving Web and Dynamic Problem of Aerothermoelastic Vibrations and Instability. Indeitsev DA, Krivtsov AM, Toimittajat. teoksessa Advanced Problems in Mechanics: Proceedings of the 47th International Summer School-Conference on Advanced Problems in Mechanics, APM 2019. Springer. Sivut 66-71. (Lecture Notes in Mechanical Engineering). [https://doi.org/10.1007/978-3-030-49882-5\\_7](https://doi.org/10.1007/978-3-030-49882-5_7)

Lahti J. 2019. Nanocellulose and Polylactic Acid Based Multilayer Coatings for Barrier Applications. teoksessa 17th Biennial TAPPI European PLACE Conference 2019. TAPPI Press. Sivut 446-455.

Teisala H, Tuominen M, Aromaa M, Mäkelä JM, Stepien M, Saarinen JJ, Toivakka M, Kuusipalo J. 2011. Nanoparticle deposition on packaging materials by the liquid flame spray. teoksessa 13th European PLACE Conference 2011.

Lahti J. 2016. Nanoscale barrier coating on BOPP packaging film by ALD. teoksessa TAPPI PLACE Conference 2016: Exploring New Frontiers. TAPPI Press. Sivut 493-505.

Lahti J, Kampuri T, Kuusipalo J. 2017. Novel bio-based materials for active and intelligent packaging. teoksessa 16th TAPPI European PLACE Conference 2017. TAPPI Press.

Lahti J, Kuusipalo J, Auvinen S. 2017. Novel equipment to simulate hot air heat sealability of packaging materials. teoksessa 16th TAPPI European PLACE Conference 2017. TAPPI Press. Sivut 237-248.

Tanskanen JMA, Kapucu FE, Hyttinen JAK. 2015. On the threshold based neuronal spike detection, and an objective criterion for setting the threshold. teoksessa International IEEE/EMBS Conference on Neural Engineering, NER. IEEE COMPUTER SOCIETY PRESS. Sivut 1016-1019. <https://doi.org/10.1109/NER.2015.7146799>

Wendel S, Karamanakos P, Dietz A, Kennel R. 2019. Operating point dependent variable switching point predictive current control for PMSM drives. teoksessa PRECEDE 2019: 2019 IEEE International Symposium on Predictive Control of Electrical Drives and Power Electronics. IEEE. Sivut 1-6. <https://doi.org/10.1109/PRECEDE.2019.8753362>

Kreutzer J, Viehrig M, Maki A-J, Kallio P, Rahikainen R, Hytönen V. 2017. Pneumatically actuated elastomeric device for simultaneous mechanobiological studies & live-cell fluorescent microscopy. teoksessa International Conference on Manipulation, Automation and Robotics at Small Scales, MARSS 2017 - Proceedings. IEEE. <https://doi.org/10.1109/MARSS.2017.8001929>

Motlagh HDK, Lotfi F, Taghirad HD, Germi SB. 2019. Position Estimation for Drones based on Visual SLAM and IMU in GPS-denied Environment. teoksessa ICRoM 2019 - 7th International Conference on Robotics and Mechatronics. IEEE. Sivut 120-124. <https://doi.org/10.1109/ICRoM48714.2019.9071826>

Teke B, Lanz M, Kämäräinen J-K, Hietanen A. 2018. Real-time and Robust Collaborative Robot Motion Control with Microsoft Kinect® v2. teoksessa 2018 14th IEEE/ASME International Conference on Mechatronic and Embedded Systems and Applications, MESA 2018. IEEE. <https://doi.org/10.1109/MESA.2018.8449156>

Subramaniyam NP, Hyttinen J, Hatsopoulos NG, Takahashi K. 2015. Recurrence network analysis of wide band oscillations of local field potentials from the primary motor cortex reveals rich dynamics. teoksessa International IEEE/EMBS Conference on Neural Engineering, NER. IEEE COMPUTER SOCIETY PRESS. Sivut 960-963. <https://doi.org/10.1109/NER.2015.7146785>

Kivelä T, Mattila J, Puura J, Launis S. 2017. Redundant robotic manipulator path planning for real-time obstacle and self-collision avoidance. Ferraresi C, Quaglia G, Toimittajat. teoksessa Advances in Service and Industrial Robotics: Proceedings of the 26th International Conference on Robotics in Alpe-Adria-Danube Region, RAAD 2017. Springer International Publishing. Sivut 208-216. (Mechanisms and Machine Science). [https://doi.org/10.1007/978-3-319-61276-8\\_24](https://doi.org/10.1007/978-3-319-61276-8_24)

Gusrialdi A, Xu Y, Qu Z, Simaan MA. 2020. Resilient Cooperative Voltage Control for Distribution Network with High Penetration Distributed Energy Resources. teoksessa European Control Conference 2020, ECC 2020. IEEE. Sivut 1533-1539.

Mahmoodpour M, Lobov A, Lanz M, Mäkelä P, Rundas N. 2018. Role-based visualization of industrial IoT-based systems . teoksessa 2018 14th IEEE/ASME International Conference on Mechatronic and Embedded Systems and Applications, MESA 2018. IEEE. <https://doi.org/10.1109/MESA.2018.8449183>

Mäkelä JM, Haapanen J, Aromaa M, Teisala H, Tuominen M, Stepien M, Saarinen JJ, Toivakka M, Kuusipalo J. 2015. Roll-to-roll coating by liquid flame spray nanoparticle deposition. teoksessa Materials Research Society Symposium Proceedings. MATERIALS RESEARCH SOCIETY. Sivut 37-42. <https://doi.org/10.1557/opl.2015.530>

Christophe F, Ritola T, Coatanéa E, Bernard A. 2011. Semantic analysis of function-solution duality. teoksessa ASME 2011 International Mechanical Engineering Congress and Exposition, IMECE 2011. Sivut 611-619. <https://doi.org/10.1115/IMECE2011-63546>

Mikkonen A, Karvinen R. 2016. Solar Panel Breakage During Heavy Rain Caused by Thermal Stress. teoksessa Engineered Transparency 2016: Glass in Architecture and Structural Engineering. Wiley.

Lahtinen K, Kuusipalo J. 2008. Statistical modeling of water vapor transmission rates for extrusion-coated papers. teoksessa TAPPI 2008 PLACE Conference: Innovations in Flexible Consumer Packaging.

Koivuluoto H, Milanti A, Bolelli G, Latokartano J, Marra F, Pulci G, Vihinen J, Lusvarghi L, Vuoristo P. 2017. Structures and properties of laser-assisted cold-sprayed aluminum coatings. teoksessa THERMEC 2016. Trans Tech Publications Ltd. Sivut 984-989. (Materials Science Forum). <https://doi.org/10.4028/www.scientific.net/MSF.879.984>

Kuusipalo J, Lahti J. 2017. Tampere University of Technology, laboratory of materials science, paper converting and packaging technology Tampere, Finland. teoksessa 16th TAPPI European PLACE Conference 2017: Basel; Switzerland; 22 May 2017 through 24 May 2017. TAPPI Press.

Lahti J, Tuominen M, Penttinen T, Räsänen JP, Kuusipalo J. 2009. The effects of corona and flame treatment: Part 2. PE-HD and PP coated papers. teoksessa TAPPI Press - 12th European PLACE Conference 2009. Sivut 278-314.

Mokammel F, Coatanea E, Christophe F, Ba Khouya M, Medyna G. 2013. Towards an approach for evaluating the quality of requirements. teoksessa 33rd Computers and Information in Engineering Conference. American Society of Mechanical Engineers. <https://doi.org/10.1115/DETC2013-13708>

Heininen A, Aaltonen J, Koskinen KT. 2017. Simulating the Drag Coefficient of a Spherical Autonomous Underwater Vehicle. Aaltonen J, Virkkunen R, Koskinen KT, Kuivanen R, Toimittajat. teoksessa Proceedings of the 2nd Annual SMACC Research Seminar 2017. Tampere: Tampere University of Technology. Sivut 53-56.

Ahonen T, Hanski J, Hyvärinen M, Kortelainen H, Uusitalo T, Vainio H, Kunttu S, Koskinen K. 2019. Enablers and barriers of smart data-based asset management services in industrial business networks. teoksessa Lecture Notes in Mechanical Engineering. Pleiades Publishing. Sivut 51-60. (Lecture Notes in Mechanical Engineering). [https://doi.org/10.1007/978-3-319-95711-1\\_6](https://doi.org/10.1007/978-3-319-95711-1_6)

Seppälä J, Salmenperä M. 2015. Towards dependable automation. teoksessa Cyber Security: Analytics, Technology and Automation: Part IV. Springer International Publishing. Sivut 229-249. (Intelligent Systems, Control and Automation: Science and Engineering). [https://doi.org/10.1007/978-3-319-18302-2\\_15](https://doi.org/10.1007/978-3-319-18302-2_15)

Priimägi A, Hecht S, Toimittaja. 2020. Special Issue: From Responsive Materials to Interactive Materials. Advanced Materials. 32(20).

Priimägi A, Hecht S, Toimittaja. 2020. From Responsive Molecules to Interactive Materials. Advanced Materials. 32(20). <https://doi.org/10.1002/adma.202000215>

Teisala H, Tuominen M, Kuusipalo J. 2014. Superhydrophobic Coatings on Cellulose-Based Materials: Fabrication, Properties, and Applications. Advanced Materials Interfaces. 1(1):1-20. <https://doi.org/10.1002/admi.201300026>

Boardman AD, Alberucci A, Assanto G, Grimalsky VV, Kibler B, McNiff J, Nefedov IS, Rapoport YG, Valagiannopoulos CA. 2017. Waves in hyperbolic and double negative metamaterials including rogues and solitons. Nanotechnology. 28(44). <https://doi.org/10.1088/1361-6528/aa6792>

Mettänen M, Hirn U. 2015. A comparison of five optical surface topography measurement methods. TAPPI Journal. 14(1):27-38.

Juoksukangas J, Lehtovaara A, Mäntylä A. 2016. A comparison of relative displacement fields between numerical predictions and experimental results in fretting contact. Proceedings of the institution of Mechanical Engineers Part J: Journal of Engineering Tribology. 230(10):1273-1287. <https://doi.org/10.1177/1350650116633573>

Koivumäki J, Mattila J. 2017. Adaptive and nonlinear control of discharge pressure for variable displacement axial piston pumps. Journal of Dynamic Systems, Measurement and Control: Transactions of the ASME. 139(10). <https://doi.org/10.1115/1.4036537>

Laakkonen P, Quadrat A. 2017. A fractional representation approach to the robust regulation problem for SISO systems. Systems and Control Letters. 103:32-37. <https://doi.org/10.1016/j.sysconle.2017.02.006>

Syrjärinne P, Nummenmaa J, Thanisch P, Kerminen R, Hakulinen E. 2015. Analysing traffic fluency from bus data. IET Intelligent Transport Systems. 9(6):566-572. <https://doi.org/10.1049/iet-its.2014.0192>

Krogerus T, Hyvönen M, Huhtala K. 2018. Analysis of common rail pressure signal of dual-fuel large industrial engine for identification of injection duration of pilot diesel injectors. Fuel. 216:1-9. <https://doi.org/10.1016/j.fuel.2017.11.152>

- Gashti EHN, Malaska M, Kujala K. 2015. Analysis of thermo-active pile structures and their performance under groundwater flow conditions. *Energy and Buildings*. 105:1-8. <https://doi.org/10.1016/j.enbuild.2015.07.026>
- Wani OM, Verpaalen R, Zeng H, Priimagi A, Schenning APHJ. 2019. An Artificial Nocturnal Flower via Humidity-Gated Photoactuation in Liquid Crystal Networks. *Advanced Materials*. 31(2). <https://doi.org/10.1002/adma.201805985>
- Colace L, Santoni F, Assanto G. 2013. A near-infrared optoelectronic approach to detection of road conditions. *Optics and Lasers in Engineering*. 51(5):633-636. <https://doi.org/10.1016/j.optlaseng.2013.01.003>
- Schoeppner RL, Mohanty G, Polyakov MN, Petho L, Maeder X, Michler J. 2020. An exploratory study on strengthening and thermal stability of magnetron sputtered W nanoparticles at the interface of Cu/Ni multilayer films. *Materials and Design*. 195. <https://doi.org/10.1016/j.matdes.2020.108907>
- Sanchez-Guevara C, Núñez Peiró M, Taylor J, Mavrogianni A, Neila González J. 2019. Assessing population vulnerability towards summer energy poverty: Case studies of Madrid and London. *Energy and Buildings*. 190:132-143. <https://doi.org/10.1016/j.enbuild.2019.02.024>
- Saarimaa V, Fuertes N, Persson D, Zavalis T, Kaleva A, Nikkanen J-P, Levänen E, Heydari G. 2020. Assessment of pitting corrosion in bare and passivated (wet  $\text{scCO}_2$ -induced patination and chemical passivation) hot-dip galvanized steel samples with SVET, FTIR, and SEM (EDS). *Materials and Corrosion*. <https://doi.org/10.1002/maco.202011653>
- Paunonen L, Seifert D. 2020. Asymptotics and approximation of large systems of ordinary differential equations. *Systems and Control Letters*. 140. <https://doi.org/10.1016/j.sysconle.2020.104703>
- Jaurola M, Hedin A, Tikkanen S, Huhtala K. 2019. A TOpti simulation for finding fuel saving by optimising propulsion control and power management. *Journal of Marine Science and Technology (Japan)*. <https://doi.org/10.1007/s00773-019-00651-2>
- Juoksukangas J, Hintikka J, Lehtovaara A, Mäntylä A, Vaara J, Frondelius T. 2020. Avoiding the high friction peak in fretting contact. *Rakenteiden Mekaniikka*. 53(1):12-19. <https://doi.org/10.23998/rm.76266>
- Lindgren M, Santa-aho S, Vippola M. 2016. Barkhausen noise response of three different welded duplex stainless steels. *Insight*. 58(9):480-486. <https://doi.org/10.1784/insi.2016.58.9.480>
- Huttunen-Saarivirta E, Isotahdon E, Metsäjoki J, Salminen T, Ronkainen H, Carpén L. 2019. Behaviour of leaded tin bronze in simulated seawater in the absence and presence of tribological contact with alumina counterbody: Corrosion, wear and tribocorrosion. *Tribology International*. 129:257-271. <https://doi.org/10.1016/j.triboint.2018.08.021>
- Vuornos K, Ojansivu M, Koivisto JT, Häkkänen H, Belay B, Montonen T, Huhtala H, Kääriäinen M, Hupa L, Kellomäki M, Hyttinen J, Ihalainen JA, Miettinen S. 2019. 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*. 99:905-918. <https://doi.org/10.1016/j.msec.2019.02.035>
- Olin M, Dal Maso M. 2020. CFD modeling the diffusional losses of nanocluster-sized particles and condensing vapors in 90° bends of circular tubes. *Journal of Aerosol Science*. 150. <https://doi.org/10.1016/j.jaerosci.2020.105618>
- Juoksukangas J, Nurmi V, Hintikka J, Vippola M, Lehtovaara A, Mäntylä A, Vaara J, Frondelius T. 2019. Characterization of cracks formed in large flat-on-flat fretting contact. *International Journal of Fatigue*. 124:361-370. <https://doi.org/10.1016/j.ijfatigue.2019.03.004>
- Isotahdon E, Huttunen-Saarivirta E, Kuokkala V. 2017. Characterization of the microstructure and corrosion performance of Ce-alloyed Nd-Fe-B magnets. *Journal of Alloys and Compounds*. 692:190-197. <https://doi.org/10.1016/j.jallcom.2016.09.058>

- Fafarman AT, Hong SH, Caglayan H, Ye X, Diroll BT, Paik T, Engheta N, Murray CB, Kagan CR. 2013. Chemically tailored dielectric-to-metal transition for the design of metamaterials from nanoimprinted colloidal nanocrystals. *Nano Letters*. 13(2):350-357. <https://doi.org/10.1021/nl303161d>
- Kanerva U, Karhu M, Lagerbom J, Kronlöf A, Honkanen M, Turunen E, Laitinen T. 2016. Chemical synthesis of WC-Co from water-soluble precursors: The effect of carbon and cobalt additions to WC synthesis. *International Journal of Refractory Metals and Hard Materials*. 56:69-75. <https://doi.org/10.1016/j.ijrmhm.2015.11.014>
- Mashayekhi M, Winchester L, Laurila M-M, Mäntysalo M, Ogier S, Terés L, Carrabina J. 2017. Chip-by-chip configurable interconnection using digital printing techniques. *Journal of Micromechanics and Microengineering*. 27(4). <https://doi.org/10.1088/1361-6439/aa5ef3>
- Belardini A, Leahu G, Petronijevic E, Hakkarainen T, Koivusalo E, Piton MR, Talmila S, Guina M, Sibilia C. 2020. Circular dichroism in the second harmonic field evidenced by asymmetric Au coated GaAs nanowires. *Micromachines*. 11(2):1-8. <https://doi.org/10.3390/mi11020225>
- Wang H, Feng Y, Fang Z, Yuan W, Khan M. 2012. 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*. 32(8):2306-2315. <https://doi.org/10.1016/j.msec.2012.07.001>
- Paris H, Mokhtarian H, Coatanéa E, Museau M, Ituarte IF. 2016. Comparative environmental impacts of additive and subtractive manufacturing technologies. *CIRP Annals: Manufacturing Technology*. 65(1):29-32. <https://doi.org/10.1016/j.cirp.2016.04.036>
- Javaheri V, Nyyssönen T, Grande B, Porter D. 2018. Computational design of a novel medium-carbon, low-alloy steel microalloyed with niobium. *Journal of Materials Engineering and Performance*. 27(6):2978-2992. <https://doi.org/10.1007/s11665-018-3376-9>
- Lanz M, Tuokko R. 2017. Concepts, methods and tools for individualized production. *PRODUCTION ENGINEERING*. 11(2):205-212. <https://doi.org/10.1007/s11740-017-0728-5>
- Evans DM, Holstad TS, Mosberg AB, Småbråten DR, Vullum PE, Dadlani AL, Shapovalov K, Yan Z, Bourret E, Gao D, Akola J, Torgersen J, van Helvoort ATJ, Selbach SM, Meier D. 2020. Conductivity control via minimally invasive anti-Frenkel defects in a functional oxide. *Nature Materials*. <https://doi.org/10.1038/s41563-020-0765-x>
- Väläkangas T, Karvinen R. 2018. Conjugated Heat Transfer Simulation of a Fin-and-Tube Heat Exchanger. *Heat Transfer Engineering*. 39(13-14):1192-1200. <https://doi.org/10.1080/01457632.2017.1363628>
- Sekki T, Andelin M, Airaksinen M, Saari A. 2016. Consideration of energy consumption, energy costs, and space occupancy in Finnish daycare centres and school buildings. *Energy and Buildings*. 129:199-206. <https://doi.org/10.1016/j.enbuild.2016.08.015>
- Liimatainen V, Sariola V, Zhou Q. 2013. Controlling liquid spreading using microfabricated undercut edges. *Advanced Materials*. 25(16):2275-2278. <https://doi.org/10.1002/adma.201204696>
- Isotahdon E, Huttunen-Saarivirta E, Heinonen S, Kuokkala VT, Paju M. 2015. Corrosion mechanisms of sintered Nd-Fe-B magnets in the presence of water as vapour, pressurised vapour and liquid. *Journal of Alloys and Compounds*. 626:349-359. <https://doi.org/10.1016/j.jallcom.2014.12.048>
- Kurnitski J, Saari A, Kalamees T, Vuolle M, Niemelä J, Tark T. 2011. Cost optimal and nearly zero (nZEB) energy performance calculations for residential buildings with REHVA definition for nZEB national implementation. *Energy and Buildings*. 43(11):3279-3288. <https://doi.org/10.1016/j.enbuild.2011.08.033>



Linko V, Leppiniemi J, Paasonen ST, Hytönen VP, Jussi Toppari J. 2011. Defined-size DNA triple crossover construct for molecular electronics: Modification, positioning and conductance properties. *Nanotechnology*. 22(27). <https://doi.org/10.1088/0957-4484/22/27/275610>

Antin KN, Pärnänen T. 2017. Democratizing composites manufacturing -inexpensive tooling empowers new players. *SAMPE Journal*. 53(4):6-10.

Välikangas T, Hærvig J, Kuuluvainen H, Dal Maso M, Peltonen P, Vuorinen V. 2019. 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*. <https://doi.org/10.1016/j.ijheatmasstransfer.2019.119046>

Palazzo G, De Tullio D, Magliulo M, Mallardi A, Intranuovo F, Mulla MY, Favia P, Vikholm-Lundin I, Torsi L. 2015. Detection beyond Debye's length with an electrolyte-gated organic field-effect transistor. *Advanced Materials*. 27(5):911-916. <https://doi.org/10.1002/adma.201403541>

Lehmusto J, Olin M, Viljanen J, Kalliokoski J, Mylläri F, Toivonen J, Dal Maso M, Hupa L. 2019. Detection of gaseous species during KCl-induced high-temperature corrosion by the means of CPFAAS and CI-API-TOF. *Materials and Corrosion*. <https://doi.org/10.1002/maco.201910964>

Malas A, Das CK, Das A, Heinrich G. 2012. Development of expanded graphite filled natural rubber vulcanizates in presence and absence of carbon black: Mechanical, thermal and morphological properties. *Materials and Design*. 39:410-417. <https://doi.org/10.1016/j.matdes.2012.03.007>

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

Huova M, Aalto A, Linjama M, Huhtala K, Lantela T, Pietola M. 2017. Digital hydraulic multi-pressure actuator – the concept, simulation study and first experimental results. *International Journal of Fluid Power*. 18(3):141-152. <https://doi.org/10.1080/14399776.2017.1302775>

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

Carfora D, Di Gironimo G, Järvenpää J, Huhtala K, Määttä T, Siuko M. 2015. Divertor remote handling for DEMO: Concept design and preliminary FMECA studies. *Fusion Engineering and Design*. 98-99:1437-1441. <https://doi.org/10.1016/j.fusengdes.2015.06.056>

Wang X, Fagerlund S, Massera J, Södergård B, Hupa L. 2017. Do properties of bioactive glasses exhibit mixed alkali behavior?. *Journal of Materials Science*. 52(15):8986–8997. <https://doi.org/10.1007/s10853-017-0915-y>

Stoykova E, Berberova N, Kim Y, Nazarova D, Ivanov B, Gotchev A, Hong J, Kang H. 2017. Dynamic speckle analysis with smoothed intensity-based activity maps. *Optics and Lasers in Engineering*. 93:55-65. <https://doi.org/10.1016/j.optlaseng.2017.01.012>

Sekki T, Airaksinen M, Saari A. 2017. Effect of energy measures on the values of energy efficiency indicators in Finnish daycare and school buildings. *Energy and Buildings*. 139:124-132. <https://doi.org/10.1016/j.enbuild.2017.01.005>

Haiko O, Miettunen I, Porter D, Ojala N, Ratia V, Heino V, Kemppainen A. 2017. Effect of finish rolling and quench stop temperatures on impact-abrasive wear resistance of 0.35 % carbon direct-quenched steel. *Tribologia*. 35(1-2):5-21.

Ratia V, Rojacz H, Terva J, Valtonen K, Badisch E, Kuokkala VT. 2015. Effect of Multiple Impacts on the Deformation of Wear-Resistant Steels. *Tribology Letters*. 57(2). <https://doi.org/10.1007/s11249-014-0460-7>

Hilliaho K, Köliö A, Pakkala T, Lahdensivu J, Vinha J. 2016. Effects of added glazing on Balcony indoor temperatures: Field measurements. *Energy and Buildings*. 128:458-472. <https://doi.org/10.1016/j.enbuild.2016.07.025>

Hokka M, Black J, Tkulich D, Fourmeau M, Kane A, Hoang NH, Li CC, Chen WW, Kuokkala V-T. 2016. Effects of strain rate and confining pressure on the compressive behavior of Kuru granite. *International Journal of Impact Engineering*. 91:183-193. <https://doi.org/10.1016/j.ijimpeng.2016.01.010>

Magliulo M, Mallardi A, Mulla MY, Cotrone S, Pistillo BR, Favia P, Vikholm-Lundin I, Palazzo G, Torsi L. 2013. Electrolyte-gated organic field-effect transistor sensors based on supported biotinylated phospholipid bilayer. *Advanced Materials*. 25(14):2090-2094. <https://doi.org/10.1002/adma.201203587>

Thomas K, Mohanty G, Wehrs J, Taylor AA, Pathak S, Casari D, Schwiedrzik J, Mara N, Spolenak R, Michler J. 2019. Elevated and cryogenic temperature micropillar compression of magnesium–niobium multilayer films. *Journal of Materials Science*. 54(15):10884-10901. <https://doi.org/10.1007/s10853-019-03422-x>

Wu D, Coatanea E, Wang GG. 2019. Employing Knowledge on Causal Relationship to Assist Multidisciplinary Design Optimization. *Journal of Mechanical Design, Transactions of the ASME*. 141(4). <https://doi.org/10.1115/1.4042342>

Ottosen NS, Ristinmaa M, Kouhia R. 2018. Enhanced multiaxial fatigue criterion that considers stress gradient effects. *International Journal of Fatigue*. 116:128-139. <https://doi.org/10.1016/j.ijfatigue.2018.05.024>

Sajna MS, Perumbilavil S, Prakashan VP, Sagu MS, Joseph C, Biju PR, Unnikrishnan NV. 2018. Enhanced resonant nonlinear absorption and optical limiting in  $\text{Er}^{3+}$  ions doped multicomponent tellurite glasses. *Materials Research Bulletin*. 104:227-235. <https://doi.org/10.1016/j.materresbull.2018.04.026>

Bourhis K, Massera J, Petit L, Koponen J, Fargues A, Cardinal T, Hupa L, Hupa M, Dussauze M, Rodriguez V, Ferraris M. 2015. Erbium-doped borosilicate glasses containing various amounts of  $\text{P}_2\text{O}_5$  and  $\text{Al}_2\text{O}_3$ : Influence of the silica content on the structure and thermal, physical, optical and luminescence properties. *Materials Research Bulletin*. 70:47-54. <https://doi.org/10.1016/j.materresbull.2015.04.017>

Vuorinen E, Heino V, Ojala N, Haiko O, Hedayati A. 2018. Erosive-abrasive wear behavior of carbide-free bainitic and boron steels compared in simulated field conditions. *Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology*. 232(1):3-13. <https://doi.org/10.1177/1350650117739125>

Lappalainen K, Wang GC, Kleissl J. 2020. Estimation of the largest expected photovoltaic power ramp rates. *Applied Energy*. 278. <https://doi.org/10.1016/j.apenergy.2020.115636>

Claude S, Ginestet S, Bonhomme M, Escadeillas G, Taylor J, Marincioni V, Korolija I, Altamirano H. 2019. Evaluating retrofit options in a historical city center: Relevance of bio-based insulation and the need to consider complex urban form in decision-making. *Energy and Buildings*. 182:196-204. <https://doi.org/10.1016/j.enbuild.2018.10.026>

Juoksukangas J, Lehtovaara A, Mäntylä A. 2016. Experimental and numerical investigation of fretting fatigue behavior in bolted joints. *Tribology International*. 103:440-448. <https://doi.org/10.1016/j.triboint.2016.07.021>

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

Lindroos M, Apostol M, Kuokkala VT, Laukkanen A, Valtonen K, Holmberg K, Oja O. 2015. Experimental study on the behavior of wear resistant steels under high velocity single particle impacts. *International Journal of Impact Engineering*. 78:114-127. <https://doi.org/10.1016/j.ijimpeng.2014.12.002>

Rasappa S, Borah D, Faulkner CC, Lutz T, Shaw MT, Holmes JD, Morris MA. 2013. Fabrication of a sub-10 nm silicon nanowire based ethanol sensor using block copolymer lithography. *Nanotechnology*. 24(6). <https://doi.org/10.1088/0957-4484/24/6/065503>

Itävuo P, Hulthén E, Vilkkö M. 2017. Feed-hopper level estimation and control in cone crushers. *Minerals Engineering*. 110:82-95. <https://doi.org/10.1016/j.mineng.2017.04.010>

Mäntylä A, Juoksukangas J, Hintikka J, Frondelius T, Lehtovaara A. 2020. FEM-based wear simulation for fretting contacts. *Rakenteiden Mekaniikka*. 53(1):20-27. <https://doi.org/10.23998/rm.76261>

Barreca D, Carraro G, Gasparotto A, Maccato C, Warwick MEA, Kaunisto K, Sada C, Turner S, Gönüllü Y, Ruoko T-P, Borgese L, Bontempi E, Van Tendeloo G, Lemmetyinen H, Mathur S. 2015. Fe<sub>2</sub>O<sub>3</sub>-TiO<sub>2</sub> Nano-heterostructure Photoanodes for Highly Efficient Solar Water Oxidation. *Advanced Materials Interfaces*. 2(17). <https://doi.org/10.1002/admi.201500313>

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

Szczodra A, Mardoukhi A, Hokka M, Boetti NG, Petit L. 2019. Fluorine losses in Er<sup>3+</sup> oxyfluoride phosphate glasses and glass-ceramics. *Journal of Alloys and Compounds*. 797:797-803. <https://doi.org/10.1016/j.jallcom.2019.05.151>

Hintikka J, Lehtovaara A, Mäntylä A. 2015. Fretting-induced friction and wear in large flat-on-flat contact with quenched and tempered steel. *Tribology International*. 92:191-202. <https://doi.org/10.1016/j.triboint.2015.06.008>

Mohammed WM, Ramis Ferrer B, Iarovyi S, Negri E, Fumagalli L, Lobov A, Martinez Lastra JL. 2018. Generic platform for manufacturing execution system functions in knowledge-driven manufacturing systems. *International Journal of Computer Integrated Manufacturing*. 1-13. <https://doi.org/10.1080/0951192X.2017.1407874>

Holmberg K, Kivikytö-Reponen P, Härkisaari P, Valtonen K, Erdemir A. 2017. Global energy consumption due to friction and wear in the mining industry. *Tribology International*. 115:116-139. <https://doi.org/10.1016/j.triboint.2017.05.010>

Borah D, Rasappa S, Sentharamaikannan R, Holmes JD, Morris MA. 2014. Graphoepitaxial Directed Self-Assembly of Polystyrene-Block-Polydimethylsiloxane Block Copolymer on Substrates Functionalized with Hexamethyldisilazane to Fabricate Nanoscale Silicon Patterns. *Advanced Materials Interfaces*. 1(3). <https://doi.org/10.1002/admi.201300102>

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

Subramaniam K, Das A, Heinrich G. 2012. Highly conducting polychloroprene composites based on multi-walled carbon nanotubes and 1-butyl 3-methyl imidazolium bis(trifluoromethylsulphonyl)imide. *KGK: KAUTSCHUK GUMMI KUNSTSTOFFE*. 65(7-8):44-46.

Philippi PC, Siebert DN, Hegele LA, Mattila KK. 2016. High-order lattice-Boltzmann. *Journal of the Brazilian Society of Mechanical Sciences and Engineering*. 38(5):1401-1419. <https://doi.org/10.1007/s40430-015-0441-2>

Tzounis L, Debnath S, Roj S, Fischer D, Mäder E, Das A, Stamm M, Heinrich G. 2014. High performance natural rubber composites with a hierarchical reinforcement structure of carbon nanotube modified natural fibers. *Materials and Design*. 58:1-11. <https://doi.org/10.1016/j.matdes.2014.01.071>

Kivioja H, Vinha J. 2020. Hot-box measurements to investigate the internal convection of highly insulated loose-fill insulation roof structures. *Energy and Buildings*. 216. <https://doi.org/10.1016/j.enbuild.2020.109934>

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

Shevkunov I, Katkovnik V, Claus D, Pedrini G, Petrov NV, Egiazarian K. 2020. Hyperspectral phase imaging based on denoising in complex-valued eigensubspace. *Optics and Lasers in Engineering*. 127. <https://doi.org/10.1016/j.optlaseng.2019.105973>

Niemelä-Anttonen H, Koivuluoto H, Tuominen M, Teisala H, Juuti P, Haapanen J, Harra J, Stenroos C, Lahti J, Kuusipalo J, Mäkelä JM, Vuoristo P. 2018. Icephobicity of Slippery Liquid Infused Porous Surfaces under Multiple Freeze–Thaw and Ice Accretion–Detachment Cycles. *Advanced Materials Interfaces*. 5(20). <https://doi.org/10.1002/admi.201800828>

Jowett GM, Norman MDA, Yu TTL, Rosell Arévalo P, Hoogland D, Lust ST, Read E, Hamrud E, Walters NJ, Niazi U, Chung MWH, Marciano D, Omer OS, Zabinski T, Danovi D, Lord GM, Hilborn J, Evans ND, Dreiss CA, Bozec L, Oommen OP, Lorenz CD, da Silva RMP, Neves JF, Gentleman E. 2020. ILC1 drive intestinal epithelial and matrix remodelling. *Nature Materials*. <https://doi.org/10.1038/s41563-020-0783-8>

Sekki T, Airaksinen M, Saari A. 2015. Impact of building usage and occupancy on energy consumption in Finnish daycare and school buildings. *Energy and Buildings*. 105:247-257. <https://doi.org/10.1016/j.enbuild.2015.07.036>

Valtonen K, Ratia V, Ramakrishnan KR, Apostol M, Terva J, Kuokkala V-T. 2019. Impact wear and mechanical behavior of steels at subzero temperatures. *Tribology International*. 129:476-493. <https://doi.org/10.1016/j.triboint.2018.08.016>

Kouhia R, Tüma M, Mäkinen J, Fedoroff A, Marjamäki H. 2012. Implementation of a direct procedure for critical point computations using preconditioned iterative solvers. *Computers & Structures*. 108-109:110-117. <https://doi.org/10.1016/j.compstruc.2012.02.009>

Haaparanta A-M, Uppstu P, Hannula M, Ellä V, Rosling A, Kellomäki M. 2015. 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*. 56:457-466. <https://doi.org/10.1016/j.msec.2015.07.013>

Fedorik F, Malaska M, Hannila R, Haapala A. 2015. Improving the thermal performance of concrete-sandwich envelopes in relation to the moisture behaviour of building structures in boreal conditions. *Energy and Buildings*. 107:226-233. <https://doi.org/10.1016/j.enbuild.2015.08.020>

Janka L, Norpoth J, Eicher S, Rodríguez Ripoll M, Vuoristo P. 2016. Improving the toughness of thermally sprayed Cr<sub>3</sub>C<sub>2</sub>-NiCr hardmetal coatings by laser post-treatment. *Materials and Design*. 98:135-142. <https://doi.org/10.1016/j.matdes.2016.03.007>

Korkiakoski S, Brøndsted P, Sarlin E, Saarela O. 2016. Influence of specimen type and reinforcement on measured tension-tension fatigue life of unidirectional GFRP laminates. *International Journal of Fatigue*. 85:114-129. <https://doi.org/10.1016/j.ijfatigue.2015.12.008>

Oluoti K, Doddapaneni TRKC, Richards T. 2018. Investigating the kinetics and biofuel properties of *Alstonia congensis* and *Ceiba pentandra* via torrefaction. *Energy*. 150:134-141. <https://doi.org/10.1016/j.energy.2018.02.086>

Gao Q, Linjama M, Paloniitty M, Zhu Y. 2019. Investigation on positioning control strategy and switching optimization of an equal coded digital valve system. *Proceedings of the Institution of Mechanical Engineers. Part I: Journal of Systems and Control Engineering*. <https://doi.org/10.1177/0959651819884749>

- Holopainen S. 2020. Käyräviivaiset koordinaatitot kontinuumimekaniikassa. *Rakenteiden Mekaniikka*. 53(2):53-66. <https://doi.org/10.23998/rm.83338>
- Pekkanen TT, Timonen RS, Lendvay G, Rissanen MP, Eskola AJ. 2019. Kinetics and thermochemistry of the reaction of 3-methylpropargyl radical with molecular oxygen. *PROCEEDINGS OF THE COMBUSTION INSTITUTE*. 37(1):299-306. <https://doi.org/10.1016/j.proci.2018.05.050>
- Cheng YC, Lu HC, Lee X, Zeng H, Priimagi A. 2019. Kirigami-Based Light-Induced Shape-Morphing and Locomotion. *Advanced Materials*. <https://doi.org/10.1002/adma.201906233>
- Czaplicki R, Kiviniemi A, Huttunen MJ, Zang X, Stolt T, Vartiainen I, Butet J, Kuittinen M, Martin OJF, Kauranen M. 2018. Less Is More: Enhancement of Second-Harmonic Generation from Metasurfaces by Reduced Nanoparticle Density. *Nano Letters*. 18(12):7709-7714. <https://doi.org/10.1021/acs.nanolett.8b03378>
- Zeng H, Wasylczyk P, Wiersma DS, Priimagi A. 2018. Light Robots: Bridging the Gap between Microrobotics and Photomechanics in Soft Materials. *Advanced Materials*. 30(24). <https://doi.org/10.1002/adma.201703554>
- Hakkarainen TV, Schramm A, Mäkelä J, Laukkanen P, Guina M. 2015. Lithography-free oxide patterns as templates for self-catalyzed growth of highly uniform GaAs nanowires on Si(111). *Nanotechnology*. 26(27). <https://doi.org/10.1088/0957-4484/26/27/275301>
- Vitola V, Lahti V, Bite I, Spustaka A, Millers D, Lastusaari M, Petit L, Smits K. 2020. Low temperature afterglow from SrAl<sub>2</sub>O<sub>4</sub>: Eu, Dy, B containing glass. *Scripta Materialia*. 190:86-90. <https://doi.org/10.1016/j.scriptamat.2020.08.023>
- Nommeots-Nomm A, Boetti NG, Salminen T, Massera J, Hokka M, Petit L. 2018. Luminescence of Er<sup>3+</sup> doped oxyfluoride phosphate glasses and glass-ceramics. *Journal of Alloys and Compounds*. 751:224-230. <https://doi.org/10.1016/j.jallcom.2018.04.101>
- Itävuo P, Hulthén E, Yahyaei M, Vilkkö M. 2019. Mass balance control of crushing circuits. *Minerals Engineering*. 135:37-47. <https://doi.org/10.1016/j.mineng.2019.02.033>
- Sekki T, Airaksinen M, Saari A. 2015. Measured energy consumption of educational buildings in a Finnish city. *Energy and Buildings*. 87:105-115. <https://doi.org/10.1016/j.enbuild.2014.11.032>
- Sariola V, Sitti M. 2014. Mechanically Switchable Elastomeric Microfibrillar Adhesive Surfaces for Transfer Printing. *Advanced Materials Interfaces*. 1(4). <https://doi.org/10.1002/admi.201300159>
- Carfora D, Gironimo GD, Esposito G, Huhtala K, Määttä T, Mäkinen H, Micciché G, Mozzillo R. 2016. Multicriteria selection in concept design of a divertor remote maintenance port in the EU DEMO reactor using an AHP participative approach. *Fusion Engineering and Design*. 112:324-331. <https://doi.org/10.1016/j.fusengdes.2016.08.023>
- Reshef O, Saad-Bin-Alam M, Huttunen MJ, Carlow G, Sullivan BT, Ménard JM, Dolgaleva K, Boyd RW. 2019. Multiresonant High-Q Plasmonic Metasurfaces. *Nano Letters*. 19(9):6429-6434. <https://doi.org/10.1021/acs.nanolett.9b02638>
- Lauri M, Pajarinen J, Peters J, Frintrop S. 2020. Multi-sensor next-best-view planning as matroid-constrained submodular maximization. *IEEE Robotics and Automation Letters*. 5(4):5323-5330. <https://doi.org/10.1109/LRA.2020.3007445>
- Debnath SC, Das A, Basu D, Heinrich G. 2013. Naturally occurring amino acids: A suitable substitute of N-N'-di-phenyl guanidine (DPG) in silica tyre formulation?. *KGK: KAUTSCHUK GUMMI KUNSTSTOFFE*. 66(1-2):25-31.

- Cochrane C, Mordon SR, Lesage JC, Koncar V. 2013. New design of textile light diffusers for photodynamic therapy. *Materials Science and Engineering C: Materials for Biological Applications*. 33(3):1170-1175. <https://doi.org/10.1016/j.msec.2012.12.007>
- Layek RK, Uddin ME, Kim NH, Tak Lau AK, Lee JH. 2017. Noncovalent functionalization of reduced graphene oxide with pluronic F127 and its nanocomposites with gum arabic. *Composites Part B : Engineering*. 128:155-163. <https://doi.org/10.1016/j.compositesb.2017.07.010>
- Backas J, Ghabcheloo R. 2019. Nonlinear model predictive energy management of hydrostatic drive transmissions. *Proceedings of the Institution of Mechanical Engineers. Part I: Journal of Systems and Control Engineering*. 233(3):335-347. <https://doi.org/10.1177/0959651818793454>
- Hintikka J, Lehtovaara A, Mäntylä A. 2016. Normal displacements in non-Coulomb friction conditions during fretting. *Tribology International*. 94:633-639. <https://doi.org/10.1016/j.triboint.2015.10.029>
- Kezilebieke S, Žitko R, Dvorak M, Ojanen T, Liljeroth P. 2019. Observation of Coexistence of Yu-Shiba-Rusinov States and Spin-Flip Excitations. *Nano Letters*. 19(7):4614-4619. <https://doi.org/10.1021/acs.nanolett.9b01583>
- Lindroos M, Laukkanen A, Cailletaud G, Kuokkala V-T. 2017. 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*. 125:68-76. <https://doi.org/10.1016/j.ijsolstr.2017.07.015>
- Kravchenko A, Shevchenko A, Ovchinnikov V, Priimagi A, Kaivola M. 2011. Optical interference lithography using azobenzene-functionalized polymers for micro-and nanopatterning of silicon. *Advanced Materials*. 23(36):4174-4177. <https://doi.org/10.1002/adma.201101888>
- Tuurna S, Varis T, Penttilä K, Ruusuvoori K, Holmström S, Yli-Olli S. 2011. Optimised selection of new protective coatings for biofuel boiler applications. *Materials and Corrosion-Werkstoffe und Korrosion*. 62(7):642-649. <https://doi.org/10.1002/maco.201005898>
- Taddeo R, Prajapati S, Lepistö R. 2017. Optimizing ammonium adsorption on natural zeolite for wastewaters with high loads of ammonium and solids. *Journal of Porous Materials*. 24(6):1545-1554. <https://doi.org/10.1007/s10934-017-0394-1>
- Roldán Del Cerro P, Salminen T, Lastusaari M, Petit L. 2018. Persistent luminescent borosilicate glasses using direct particles doping method. *Scripta Materialia*. 151:38-41. <https://doi.org/10.1016/j.scriptamat.2018.03.034>
- Nommeots-Nomm A, Houaoui A, Pradeepan Packiyannathar A, Chen X, Hokka M, Hill R, Pauthe E, Petit L, Boissière M, Massera J. 2020. Phosphate/oxyfluorophosphate glass crystallization and its impact on dissolution and cytotoxicity. *Materials Science and Engineering C*. 117. <https://doi.org/10.1016/j.msec.2020.111269>
- Kreutzer J, Viehrig M, Pölönen RP, Zhao F, Ojala M, Aalto-Setälä K, Kallio P. 2019. Pneumatic unidirectional cell stretching device for mechanobiological studies of cardiomyocytes. *BIOMECHANICS AND MODELING IN MECHANOBIOLOGY*. <https://doi.org/10.1007/s10237-019-01211-8>
- Pirjola L, Kuuluvainen H, Timonen H, Saarikoski S, Teinilä K, Salo L, Datta A, Simonen P, Karjalainen P, Kulmala K, Rönkkö T. 2019. Potential of renewable fuel to reduce diesel exhaust particle emissions. *Applied Energy*. 254. <https://doi.org/10.1016/j.apenergy.2019.113636>
- Mäntylä A, Hintikka J, Frondelius T, Vaara J, Lehtovaara A, Juoksukangas J. 2019. Prediction of contact condition and surface damage by simulating variable friction coefficient and wear. *Tribology International*. <https://doi.org/10.1016/j.triboint.2019.106054>
- Pajarinen J, Arenz O, Peters J, Neumann G. 2020. Probabilistic approach to physical object disentangling. *IEEE Robotics and Automation Letters*. 5(4):5510-5517. <https://doi.org/10.1109/LRA.2020.3006789>

Ahmed R, Priimagi A, Faul CFJ, Manners I. 2012. Redox-active, organometallic surface-relief gratings from azobenzene-containing polyferrocenylsilane block copolymers. *Advanced Materials*. 24(7):926-931. <https://doi.org/10.1002/adma.201103793>

Alanen J, Ruiz Morales E, Muhammad A, Saarinen H, Minkkinen J. 2019. Remote diagnostics application software for remote handling equipment. *Fusion Engineering and Design*. <https://doi.org/10.1016/j.fusengdes.2019.01.125>

Linjamaa A, Lehtovaara A, Kallio M, Léger A. 2019. Running-in effects on friction of journal bearings under slow sliding speeds. *Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology*. <https://doi.org/10.1177/1350650119864758>

Hintikka J, Mäntylä A, Vaara J, Frondelius T, Juoksukangas J, Lehtovaara A. 2019. Running-in in fretting, transition from near-stable friction regime to gross sliding. *Tribology International*. 143. <https://doi.org/10.1016/j.triboint.2019.106073>

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

Bautista G, Mäkitalo J, Chen Y, Dhaka V, Grasso M, Karvonen L, Jiang H, Huttunen MJ, Huhtio T, Lipsanen H, Kauranen M. 2015. Second-harmonic generation imaging of semiconductor nanowires with focused vector beams. *Nano Letters*. 15(3):1564-1569. <https://doi.org/10.1021/nl503984b>

Chang B, Sariola V, Jääskeläinen M, Zhou Q. 2011. Self-alignment in the stacking of microchips with mist-induced water droplets. *Journal of Micromechanics and Microengineering*. 21(1). <https://doi.org/10.1088/0960-1317/21/1/015016>

Chang B, Routa I, Sariola V, Zhou Q. 2011. Self-alignment of RFID dies on four-pad patterns with water droplet for sparse self-assembly. *Journal of Micromechanics and Microengineering*. 21(9). <https://doi.org/10.1088/0960-1317/21/9/095024>

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

Ylönen M, Franc JP, Miettinen J, Saarenrinne P, Fivel M. 2019. Shedding frequency in cavitation erosion evolution tracking. *International Journal of Multiphase Flow*. 118:141-149. <https://doi.org/10.1016/j.ijmultiphaseflow.2019.06.009>

Le T, Lin Z, Wong CP, Tentzeris MM. 2015. Smart Skins: Could they be the ultimate sensing tool? Today's industry and personal medical care both strongly demand accurate, reliable, robust, low-cost. *IEEE Nanotechnology Magazine*. 9(2):4-10. <https://doi.org/10.1109/MNANO.2015.2410474>

Netzev M, Angleraud A, Pieters R. 2020. Soft robotic gripper with compliant cell stacks for industrial part handling. *IEEE Robotics and Automation Letters*. 5(4):6821-6828. <https://doi.org/10.1109/LRA.2020.3020546>

Šutka A, Käämbre T, Joost U, Kooser K, Kook M, Duarte RF, Kisand V, Maiorov M, Döbelin N, Smits K. 2018. Solvothermal synthesis derived Co-Ga codoped ZnO diluted magnetic degenerated semiconductor nanocrystals. *Journal of Alloys and Compounds*. 763:164-172. <https://doi.org/10.1016/j.jallcom.2018.05.036>

Lemougna PN, Yliniemi J, Ismailov A, Levänen E, Tanskanen P, Kinnunen P, Roning J, Illikainen M. 2019. Spodumene tailings for porcelain and structural materials: Effect of temperature (1050–1200°C) on the sintering and properties. *Minerals Engineering*. <https://doi.org/10.1016/j.mineng.2019.105843>

Luna E, Wu M, Hanke M, Puustinen J, Guina M, Trampert A. 2016. Spontaneous formation of three-dimensionally ordered Bi-rich nanostructures within GaAs<sub>1-x</sub>Bi<sub>x</sub>/GaAs quantum wells. *Nanotechnology*. 27(32). <https://doi.org/10.1088/0957-4484/27/32/325603>

Hintikka J, Mäntylä A, Vaara J, Frondelius T, Lehtovaara A. 2019. Stable and unstable friction in fretting contacts. *Tribology International*. 131:73-82. <https://doi.org/10.1016/j.triboint.2018.10.014>

Andersson P, Kilpi L, Holmberg K, Vaajoki A, Oksanen V. 2016. Static friction measurements on steel against uncoated and coated cast iron. *Tribologia*. 34(1-2):5-40.

Laurila MM, Khorrarnadel B, Dastpak A, Mäntysalo M. 2017. Statistical analysis of E-jet print parameter effects on Ag-nanoparticle ink droplet size. *Journal of Micromechanics and Microengineering*. 27(9). <https://doi.org/10.1088/1361-6439/aa7a71>

Seidt JD, Kuokkala V-T, Smith JL, Gilat A. 2017. Synchronous Full-Field Strain and Temperature Measurement in Tensile Tests at Low, Intermediate and High Strain Rates. *Experimental Mechanics*. 57(2):219–229. <https://doi.org/10.1007/s11340-016-0237-z>

Chronopoulos A, Thorpe SD, Cortes E, Lachowski D, Rice AJ, Mykuliak VV, Rog T, Lee DA, Hytönen VP, del Río Hernández AE. 2020. Syndecan-4 tunes cell mechanics by activating the kindlin-integrin-RhoA pathway. *Nature Materials*. <https://doi.org/10.1038/s41563-019-0567-1>

Sautter JD, Xu L, Miroshnichenko AE, Lysevych M, Volkovskaya I, Smirnova DA, Camacho-Morales R, Zangeneh Kamali K, Karouta F, Vora K, Tan HH, Kauranen M, Staude I, Jagadish C, Neshev DN, Rahmani M. 2019. Tailoring Second-Harmonic Emission from (111)-GaAs Nanoantennas. *Nano Letters*. 19(6):3905-3911. <https://doi.org/10.1021/acs.nanolett.9b01112>

Doddapaneni TRKC, Praveenkumar R, Tolvanen H, Rintala J, Konttinen J. 2018. Techno-economic evaluation of integrating torrefaction with anaerobic digestion. *Applied Energy*. 213:272-284. <https://doi.org/10.1016/j.apenergy.2018.01.045>

Björling M, Miettinen J, Marklund P, Lehtovaara A, Larsson R. 2015. The correlation between gear contact friction and ball on disc friction measurements. *Tribology International*. 83:114-119. <https://doi.org/10.1016/j.triboint.2014.11.007>

Lindroos M, Apostol M, Heino V, Valtonen K, Laukkanen A, Holmberg K, Kuokkala VT. 2015. The deformation, strain hardening, and wear behavior of chromium-alloyed hadfield steel in abrasive and impact conditions. *Tribology Letters*. 57(3). <https://doi.org/10.1007/s11249-015-0477-6>

Järvinen H, Isakov M, Nyyssönen T, Järvenpää M, Peura P. 2016. 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*. 676:109-120. <https://doi.org/10.1016/j.msea.2016.08.096>

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

Nurmi V, Hintikka J, Juoksukangas J, Honkanen M, Vippola M, Lehtovaara A, Mäntylä A, Vaara J, Frondelius T. 2019. The formation and characterization of fretting-induced degradation layers using quenched and tempered steel. *Tribology International*. 131:258-267. <https://doi.org/10.1016/j.triboint.2018.09.012>

Liimatainen H, van Vliet O, Aplyn D. 2019. The potential of electric trucks – An international commodity-level analysis. *Applied Energy*. 236:804-814. <https://doi.org/10.1016/j.apenergy.2018.12.017>

Mishra A, Petit L, Pihl M, Andersson M, Salminen T, Rocherullé J, Massera J. 2017. Thermal, structural and in vitro dissolution of antimicrobial copper-doped and slow resorbable iron-doped phosphate glasses. *Journal of Materials Science*. 52(15):8957–8972. <https://doi.org/10.1007/s10853-017-0805-3>



Rodríguez Ripoll M, Ojala N, Katsich C, Totolin V, Tomastik C, Hradil K. 2016. The role of niobium in improving toughness and corrosion resistance of high speed steel laser hardfacings. *Materials and Design*. 99:509-520. <https://doi.org/10.1016/j.matdes.2016.03.081>

Hintikka J, Lehtovaara A, Mäntylä A. 2017. Third Particle Ejection Effects on Wear with Quenched and Tempered Steel Fretting Contact. *TRIBOLOGY TRANSACTIONS*. 60(1):70-78. <https://doi.org/10.1080/10402004.2016.1146813>

Jaurola M, Hedin A, Tikkanen S, Huhtala K. 2018. TOpt: a flexible framework for optimising energy management for various ship machinery topologies. *Journal of Marine Science and Technology (Japan)*. <https://doi.org/10.1007/s00773-018-0617-4>

Kuzmin M, Laukkanen P, Mäkelä J, Yasir M, Tuominen M, Dahl J, Punkkinen MPJ, Kokko K, Hedman HP, Moon J, Punkkinen R, Lastusaari M, Polojärvi V, Korpijärvi V-M, Guina M. 2016. Toward the Atomically Abrupt Interfaces of SiO<sub>x</sub>/Semiconductor Junctions. *Advanced Materials Interfaces*. 3(11). <https://doi.org/10.1002/admi.201500510>

Wu H, Sariola V, Zhu C, Zhao J, Sitti M, Bettinger CJ. 2015. Transfer printing of metallic microstructures on adhesion-promoting hydrogel substrates. *Advanced Materials*. 27(22):3398-3404. <https://doi.org/10.1002/adma.201500954>

Ryynänen T, Mzezewa R, Meriläinen E, Hyvärinen T, Lekkala J, Narkilahti S, Kallio P. 2020. Transparent microelectrode arrays fabricated by ion beam assisted deposition for neuronal cell in vitro recordings. *Micromachines*. 11(5). <https://doi.org/10.3390/M111050497>

Huttunen-Saarivirta E, Kilpi L, Pasanen AT, Salminen T, Ronkainen H. 2020. Tribocorrosion behaviour of tin bronze CuSn12 under a sliding motion in NaCl containing environment: Contact to inert vs. reactive counterbody. *Tribology International*. 151. <https://doi.org/10.1016/j.triboint.2020.106389>

Mäntyranta A, Heino V, Isotahdon E, Salminen T, Huttunen-Saarivirta E. 2019. Tribocorrosion behaviour of two low-alloy steel grades in simulated waste solution. *Tribology International*. 138:250-262. <https://doi.org/10.1016/j.triboint.2019.05.032>

Teisala H, Geyer F, Haapanen J, Juuti P, Mäkelä JM, Vollmer D, Butt HJ. 2018. Ultrafast Processing of Hierarchical Nanotexture for a Transparent Superamphiphobic Coating with Extremely Low Roll-Off Angle and High Impalement Pressure. *Advanced Materials*. 30(14). <https://doi.org/10.1002/adma.201706529>

Barreca D, Carraro G, Gasparotto A, Maccato C, Altantzis T, Sada C, Kaunisto K, Ruoko T-P, Bals S. 2017. Vapor Phase Fabrication of Nanoheterostructures Based on ZnO for Photoelectrochemical Water Splitting. *Advanced Materials Interfaces*. 4(18). <https://doi.org/10.1002/admi.201700161>

Linjama M. 2019. Variable speed digital hydraulic transformer-based servo drive. *Proceedings of the Institution of Mechanical Engineers. Part I: Journal of Systems and Control Engineering*. <https://doi.org/10.1177/0959651819869145>

Linjama M. 2019. Variable speed drive with hydraulic boost. *International Journal of Fluid Power*. 20(1):99-123. <https://doi.org/10.13052/ijfp1439-9776.2014>

Perttula A, Nguyen N, Collin J, Jokinen J-P. 2019. Vehicle type detection and passenger satisfaction analysis using smartphone sensors and digital surveys. *IET Intelligent Transport Systems*. 13(10):1499-1506. <https://doi.org/10.1049/iet-its.2018.5349>

Zhang H, Zeng H, Priimägi A, Ikkala O. 2020. Viewpoint: Pavlovian Materials—Functional Biomimetics Inspired by Classical Conditioning. *Advanced Materials*. <https://doi.org/10.1002/adma.201906619>

Bolelli G, Milanti A, Lusvarghi L, Trombi L, Koivuluoto H, Vuoristo P. 2016. Wear and impact behaviour of High Velocity Air-Fuel sprayed Fe-Cr-Ni-B-C alloy coatings. *Tribology International*. 95:372-390. <https://doi.org/10.1016/j.triboint.2015.11.036>

Haiko O, Heino V, Porter DA, Uusitalo J, Kömi J. 2019. Effect of microstructure on the abrasive wear resistance of steels with hardness 450 HV. *Tribologia*. 36(1):54-57. <https://doi.org/10.30678/FJT.82443>

Matikainen V, Rubio Peregrina S, Ojala N, Koivuluoto H, Schubert J, Houdková , Vuoristo P. 2019. Slurry and dry particle erosion wear properties of WC-10Co4Cr and Cr<sub>3</sub>C<sub>2</sub>-25NiCr hardmetal coatings deposited by HVOF and HVAF spray processes. *Tribologia*. 36(1-2):58-61. <https://doi.org/10.30678/FJT.83590>