

Priimägi, A & Hecht, S (eds) 2020, 'Special Issue: From Responsive Materials to Interactive Materials', *Advanced Materials*, vol. 32, no. 20.

Heininen, A, Aaltonen, J & Koskinen, KT 2017, Simulating the Drag Coefficient of a Spherical Autonomous Underwater Vehicle. in J Aaltonen, R Virkkunen, KT Koskinen & R Kuivanen (eds), *Proceedings of the 2nd Annual SMACC Research Seminar 2017*. vol. 2, 14, Tampere University of Technology, Tampere, pp. 53-56, SMACC Research seminar, Tampere, 10/10/16.

Priimägi, A & Hecht, S (eds) 2020, 'From Responsive Molecules to Interactive Materials', *Advanced Materials*, vol. 32, no. 20, 2000215. <https://doi.org/10.1002/adma.202000215>

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 Cr₃C₂-25NiCr hardmetal coatings deposited by HVOF and HVOF spray processes', *Tribologia*, vol. 36, no. 1-2, pp. 58-61. <https://doi.org/10.30678/FJT.83590>

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*, vol. 36, no. 1, pp. 54-57. <https://doi.org/10.30678/FJT.82443>

Di Vito, D, Mosallaei, M, Vahed, BK, Kanerva, M & Mäntysalo, M 2020, Deformability analysis and improvement in stretchable electronics systems through finite element analysis. in A Carcaterra, G Graziani & A Paolone (eds), *Proceedings of XXIV AIMETA Conference 2019*. Lecture Notes in Mechanical Engineering, Springer, pp. 755-763, Conference of the Italian Association of Theoretical and Applied Mechanics, Rome, Italy, 15/09/19. https://doi.org/10.1007/978-3-030-41057-5_61

Gusrialdi, A, Xu, Y, Qu, Z & Simaan, MA 2020, Resilient Cooperative Voltage Control for Distribution Network with High Penetration Distributed Energy Resources. in *European Control Conference 2020, ECC 2020*. IEEE, pp. 1533-1539, European Control Conference, Saint Petersburg, Russian Federation, 12/05/20.

Singh, AK, Ahonen, A, Ghabcheloo, R & Mueller, A 2020, Introducing Multi-Convexity in Path Constrained Trajectory Optimization for Mobile Manipulators. in *European Control Conference 2020, ECC 2020*. IEEE, pp. 1178-1185, European Control Conference, Saint Petersburg, Russian Federation, 12/05/20.

Mäenpää, P, Aref, MM & Mattila, J 2019, FORMI: A Fast Holonomic Path Planning and Obstacle Representation Method Based on Interval Analysis. in *Proceedings of the IEEE 2019 9th International Conference on Cybernetics and Intelligent Systems and Robotics, Automation and Mechatronics, CIS and RAM 2019*. IEEE International Conference on Cybernetics and Intelligent Systems, IEEE, pp. 398-403, IEEE International Conference on Cybernetics and Intelligent Systems and Robotics, Automation and Mechatronics, Bangkok, Thailand, 18/11/19. <https://doi.org/10.1109/CIS-RAM47153.2019.9095822>

Motlagh, HDK, Lotfi, F, Taghirad, HD & Gerami, SB 2019, Position Estimation for Drones based on Visual SLAM and IMU in GPS-denied Environment. in *ICRoM 2019 - 7th International Conference on Robotics and Mechatronics*. IEEE, pp. 120-124, 7th International Conference on Robotics and Mechatronics, ICRoM 2019, Tehran, Iran, Islamic Republic of, 20/11/19. <https://doi.org/10.1109/ICRoM48714.2019.9071826>

Koivikko, A & Sariola, V 2019, Fabrication of soft devices with buried fluid channels by using sacrificial 3D printed molds. in *2019 2nd IEEE International Conference on Soft Robotics (RoboSoft)*. IEEE, pp. 509-513, IEEE International Conference on Soft Robotics, RoboSoft, Seoul, Korea, Republic of, 14/04/19. <https://doi.org/10.1109/ROBOSOFT.2019.8722741>

Wendel, S, Karamanakos, P, Dietz, A & Kennel, R 2019, Operating point dependent variable switching point predictive current control for PMSM drives. in *PRECEDE 2019: 2019 IEEE International Symposium on Predictive Control of Electrical Drives and Power Electronics*. IEEE, pp. 1-6, IEEE International Symposium on Predictive Control of Electrical Drives and Power Electronics, Quanzhou, China, 31/05/19. <https://doi.org/10.1109/PRECEDE.2019.8753362>

Rossi, M, Liegmann, E, Karamanakos, P, Castelli-Dezza, F & Kennel, R 2019, Direct model predictive power control of a series-connected modular rectifier. in *PRECEDE 2019: 2019 IEEE International Symposium on Predictive Control of Electrical Drives and Power Electronics*. IEEE, pp. 1-6, IEEE International Symposium on Predictive Control of Electrical Drives and Power Electronics, Quanzhou, China, 31/05/19. <https://doi.org/10.1109/PRECEDE.2019.8753318>

Lahti, J 2019, Nanocellulose and Polylactic Acid Based Multilayer Coatings for Barrier Applications. in *17th Biennial TAPPI European PLACE Conference 2019*. TAPPI Press, pp. 446-455, Biennial TAPPI European PLACE Conference, Porto, Portugal, 20/05/19.

Lahti, J 2019, Market implementation of active and intelligent packaging-opportunities from a socio-economic perspective. in *17th Biennial TAPPI European PLACE Conference 2019*. TAPPI Press, pp. 419-427, Biennial TAPPI European PLACE Conference, Porto, Portugal, 20/05/19.

Suokas, E 2019, Effect of polyolefin molecular structure on product properties in extrusion coating. in *17th Biennial TAPPI European PLACE Conference 2019*. TAPPI Press, pp. 89-98, Biennial TAPPI European PLACE Conference, Porto, Portugal, 20/05/19.

Liikanen, H, Aref, MM & Mattila, J 2019, M-Estimator Application in Real-Time Sensor Fusion for Smooth Position Feedback of Heavy-Duty Field Robots. in *Proceedings of the IEEE 2019 9th International Conference on Cybernetics and Intelligent Systems (CIS) and IEEE Conference on Robotics, Automation and Mechatronics (RAM)*. IEEE International Conference on Cybernetics and Intelligent Systems, IEEE, pp. 368-373, IEEE International Conference on Cybernetics and Intelligent Systems, and Robotics, Automation and Mechatronics, 1/01/00. <https://doi.org/10.1109/CIS-RAM47153.2019.9095821>

Cao, X, Aref, MM & Mattila, J 2019, Design and Control of a Flexible Joint as a Hydraulic Series Elastic Actuator for Manipulation Applications. in *Proceedings of the IEEE 2019 9th International Conference on Cybernetics and Intelligent Systems and Robotics, Automation and Mechatronics, CIS and RAM 2019.*, 9095773, IEEE International Conference on Cybernetics and Intelligent Systems, IEEE, pp. 553-558, IEEE International Conference on Cybernetics and Intelligent Systems, and Robotics, Automation and Mechatronics, 1/01/00. <https://doi.org/10.1109/CIS-RAM47153.2019.9095773>

Far, MF, Mustafa, B, Martin, F, Rasilo, P & Belahcen, A 2018, Flux-Weakening Control for IPMSM Employing Model Order Reduction. in *2018 23rd International Conference on Electrical Machines, ICEM 2018*. IEEE, pp. 1510-1516, International Conference on Electrical Machines, Alexandroupoli, Greece, 3/09/18. <https://doi.org/10.1109/ICELMACH.2018.8506693>

Far, MF, Mukherjee, V, Martin, F, Rasilo, P & Belahcen, A 2018, Model Order Reduction of Bearingless Reluctance Motor Including Eccentricity. in *2018 23rd International Conference on Electrical Machines, ICEM 2018*. IEEE, pp. 2243-2249, International Conference on Electrical Machines, Alexandroupoli, Greece, 3/09/18. <https://doi.org/10.1109/ICELMACH.2018.8506758>

Teke, B, Lanz, M, Kämäräinen, J-K & Hietanen, A 2018, Real-time and Robust Collaborative Robot Motion Control with Microsoft Kinect © v2. in *2018 14th IEEE/ASME International Conference on Mechatronic and Embedded Systems and Applications, MESA 2018.*, 8449156, IEEE, IEEE/ASME International Conference on Mechatronic and Embedded Systems and Applications, Oulu, Finland, 2/07/18. <https://doi.org/10.1109/MESA.2018.8449156>

Mäkinen, P, Mononen, T & Mattila, J 2018, Inertial Sensor-Based State Estimation of Flexible Links Subject to Bending and Torsion. in *2018 14th IEEE/ASME International Conference on Mechatronic and Embedded Systems and Applications, MESA 2018.*, 8449188, IEEE, IEEE/ASME International Conference on Mechatronic and Embedded Systems and Applications, Oulu, Finland, 2/07/18. <https://doi.org/10.1109/MESA.2018.8449188>

Mahmoodpour, M, Lobov, A, Lanz, M, Mäkelä, P & Rundas, N 2018, Role-based visualization of industrial IoT-based systems. in *2018 14th IEEE/ASME International Conference on Mechatronic and Embedded Systems and Applications, MESA 2018.*, 8449183, IEEE, IEEE/ASME International Conference on Mechatronic and Embedded Systems and Applications, Oulu, Finland, 2/07/18. <https://doi.org/10.1109/MESA.2018.8449183>

Ghabcheloo, R & Siddiqui, S 2018, Complete Odometry Estimation of a Vehicle Using Single Automotive Radar and a Gyroscope. in *MED 2018 - 26th Mediterranean Conference on Control and Automation.*, 8442474, IEEE, pp. 855-860, Mediterranean Conference on Control and Automation, Zadar, Croatia, 19/06/18.

<https://doi.org/10.1109/MED.2018.8442474>

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. in *Mechanics of Biological Systems, Materials and other topics in Experimental and Applied Mechanics - Proceedings of the 2017 Annual Conference on Experimental and Applied Mechanics*. vol. 4, Conference Proceedings of the Society for Experimental Mechanics, Springer New York LLC, pp. 19-27, Annual Conference and Exposition on Experimental and Applied Mechanics, 1/01/00. https://doi.org/10.1007/978-3-319-63552-1_4

Vazquez Fernandez, N, Isakov, M, Hokka, M & Kuokkala, VT 2018, Effects of adiabatic heating estimated from tensile tests with continuous heating. in *Dynamic Behavior of Materials - Proceedings of the 2017 Annual Conference on Experimental and Applied Mechanics*. vol. 1, Conference Proceedings of the Society for Experimental Mechanics, Springer New York LLC, pp. 1-7, Annual Conference and Exposition on Experimental and Applied Mechanics, 1/01/00. https://doi.org/10.1007/978-3-319-62956-8_1

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. in *38th Computers and Information in Engineering Conference*. vol. 1B-2018, The American Society of Mechanical Engineers ASME, International Design Engineering Technical Conferences and Computers and Information in Engineering Conference, Quebec City, Canada, 26/08/18. <https://doi.org/10.1115/DETC201885895>

Pyrhönen, V-P, Koivisto, H & Vilkkö, M 2017, A Reduced-Order Two-Degree-of-Freedom Composite Nonlinear Feedback Control for a Rotary DC Servo Motor. in *Proceedings of the 56th IEEE Conference on Decision and Control*. Melbourne, Australia, pp. 2065-2071, IEEE CONFERENCE ON DECISION AND CONTROL, 1/01/00. <https://doi.org/10.1109/CDC.2017.8263951>

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. in *International Conference on Manipulation, Automation and Robotics at Small Scales, MARSS 2017 - Proceedings*. IEEE, International Conference on Manipulation, Automation and Robotics at Small Scales (MARSS), 1/01/00. <https://doi.org/10.1109/MARSS.2017.8001929>

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. in *International Conference on Manipulation, Automation and Robotics at Small Scales, MARSS 2017 - Proceedings*. IEEE, International Conference on Manipulation, Automation and Robotics at Small Scales (MARSS), 1/01/00. <https://doi.org/10.1109/MARSS.2017.8001916>

Kivelä, T, Mattila, J, Puura, J & Launis, S 2017, Redundant robotic manipulator path planning for real-time obstacle and self-collision avoidance. in C Ferraresi & G Quaglia (eds), *Advances in Service and Industrial Robotics: Proceedings of the 26th International Conference on Robotics in Alpe-Adria-Danube Region, RAAD 2017*. Mechanisms and Machine Science, vol. 49, Springer International Publishing, pp. 208-216, International Conference on Robotics in Alpe-Adria Danube Region, 1/01/00. https://doi.org/10.1007/978-3-319-61276-8_24

Lahti, J, Kuusipalo, J & Auvinen, S 2017, Novel equipment to simulate hot air heat sealability of packaging materials. in *16th TAPPI European PLACE Conference 2017*. TAPPI Press, pp. 237-248, TAPPI European PLACE Conference, 1/01/00.

Suokas, E 2017, Effect of air gap on the adhesion of PET layer on cardboard substrate in extrusion coating. in *16th TAPPI European PLACE Conference 2017*. TAPPI Press, pp. 529-544, TAPPI European PLACE Conference, 1/01/00.

Lahti, J, Kamppuri, T & Kuusipalo, J 2017, Novel bio-based materials for active and intelligent packaging. in *16th TAPPI European PLACE Conference 2017*. TAPPI Press, TAPPI European PLACE Conference, 1/01/00.

Kuusipalo, J & Lahti, J 2017, Tampere University of Technology, laboratory of materials science, paper converting and packaging technology Tampere, Finland. in *16th TAPPI European PLACE Conference 2017: Basel; Switzerland; 22 May 2017 through 24 May 2017*. vol. May-2017, TAPPI Press, TAPPI European PLACE Conference, 1/01/12.

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. in *THERMEC 2016*. vol. 879, Materials Science Forum, vol. 879, Trans Tech Publications Ltd, pp. 984-989, Conference on Processing and Manufacturing of Advanced Materials, THERMEC, 1/01/00. <https://doi.org/10.4028/www.scientific.net/MSF.879.984>

Mikkonen, A & Karvinen, R 2017, Heat Transfer of Impinging Jet: Effect of Compressibility and Turbulent Kinetic Energy Production. in *IX International Conference on Computational Heat and Mass Transfer (ICCHMT 2016)* . International Conference of Computational Heat and Mass Transfer, Cracow, Poland, 23/05/16.

Wu, D, Coatanea, E & Wang, GG 2017, Dimension reduction and decomposition using causal graph and qualitative analysis for aircraft concept design optimization. in *43rd Design Automation Conference*. The American Society of Mechanical Engineers ASME, International Design Engineering Technical Conferences and Computers and Information in Engineering Conference, 1/01/00. <https://doi.org/10.1115/DETC201767601>

Mikkonen, A & Karvinen, R 2016, Solar Panel Breakage During Heavy Rain Caused by Thermal Stress. in *Engineered Transparency 2016: Glass in Architecture and Structural Engineering*. Wiley, ENGINEERED TRANSPARENCY INTERNATIONAL CONFERENCE, 1/01/00.

Ellman, A, Wendrich, R & Tiainen, T 2016, Framework and feasibility study for pairwise comparison tool. in *Proceedings of the ASME 2016 Computers and Information in Engineering Conference IDETC/CIE 2016*., DETC2016-59886, ASME, Charlotte, North Carolina, International Design Engineering Technical Conferences and Computers and Information in Engineering Conference, 1/01/00. <https://doi.org/10.1115/DETC2016-59886>

Hokka, M, Mirow, N, Nagel, H, Vogt, S & Kuokkala, V-T 2016, DIC measurements of the human heart during cardiopulmonary bypass surgery. in *Conference Proceedings of the Society for Experimental Mechanics Series*. vol. 6, Springer New York LLC, pp. 51-59, Society for experimental mechanics annual conference & exposition on experimental and applied mechanics, 1/01/00. https://doi.org/10.1007/978-3-319-21455-9_6

Lahti, J 2016, Nanoscale barrier coating on BOPP packaging film by ALD. in *TAPPI PLACE Conference 2016: Exploring New Frontiers*. TAPPI Press, pp. 493-505, TAPPI PLACE conference, 1/01/00.

Hartikainen, J, Kolari, K & Kouhia, R 2016, Development and numerical implementation of an anisotropic continuum damage model for concrete. in *Advances in Fracture and Damage Mechanics XV*. Key Engineering Materials, vol. 713, Trans Tech Publications Ltd, pp. 115-118, International Conference on Fracture and Damage Mechanics, 1/01/00. <https://doi.org/10.4028/www.scientific.net/KEM.713.115>

Mäkinen, J, Fränti, K, Korhonen, M, Fillion, J & Heinisuo, M 2016, End-plate connections in Bi-axial bending - Measurements. in FM Mazzolani, A Squillace, B Faggiano & F Bellucci (eds), *13th International Aluminium Conference, Sustainability, Durability and Structural Advantages, : INALCO 2016; Naples; Italy; 21 September 2016 through 23 September 2016*. vol. 710, Key Engineering Materials, vol. 710, Trans Tech Publications Ltd, pp. 275-280, International Aluminium Conference, 7/12/16. <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. in *International IEEE/EMBS Conference on Neural Engineering, NER*. vol. 2015-July, IEEE COMPUTER SOCIETY PRESS, pp. 1092-1095, International IEEE/EMBS Conference on Neural Engineering, 1/01/00. <https://doi.org/10.1109/NER.2015.7146818>

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. in *International IEEE/EMBS Conference on Neural Engineering, NER*. IEEE COMPUTER SOCIETY PRESS, pp. 960-963, International IEEE/EMBS Conference on Neural Engineering, 1/01/00. <https://doi.org/10.1109/NER.2015.7146785>

Tanskanen, JMA, Kapucu, FE & Hyttinen, JAK 2015, On the threshold based neuronal spike detection, and an objective criterion for setting the threshold. in *International IEEE/EMBS Conference on Neural Engineering, NER*. IEEE COMPUTER SOCIETY PRESS, pp. 1016-1019, International IEEE/EMBS Conference on Neural Engineering, 1/01/00. <https://doi.org/10.1109/NER.2015.7146799>

Hokka, M, Östman, K, Rämö, J & Kuokkala, VT 2015, High Temperature Tension HSB Device Based on Direct Electrical Heating. in B Song, D Casem & J Kimberley (eds), *Dynamic Behavior of Materials, Volume 1: Proceedings of the 2014 Annual Conference on Experimental and Applied Mechanics*. vol. 65, Conference Proceedings of the Society for Experimental Mechanics Series, Springer, pp. 227-233, Society for experimental mechanics annual conference & exposition on experimental and applied mechanics, 1/01/00. https://doi.org/10.1007/978-3-319-06995-1_34

Pylkkänen, K, Nurmikolu, A, Guthrie, WS & Argyle, HM 2015, Measurements and Modeling of Frost Depth in Railway Tracks. in *Proceedings of the International Conference on Cold Regions Engineering: 16th International Conference on Cold Regions Engineering 2015*. American Society of Civil Engineers ASCE, pp. 123-134, International Conference on Cold Regions Engineering, United Kingdom, 13/10/15. <https://doi.org/10.1061/9780784479315.012>

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. in *Materials Research Society Symposium Proceedings*. vol. 1747, MATERIALS RESEARCH SOCIETY, pp. 37-42, Materials Research Society Symposium, 1/01/00. <https://doi.org/10.1557/opl.2015.530>

Martinez, F, Neculqueo, G, Vasquez, SO, Lemmetyinen, H, Efimov, A & Vivo, P 2015, Branched thiophene oligomer/polymer bulk heterojunction organic solar cell. in *Materials Research Society Symposium Proceedings*. vol. 1737, MATERIALS RESEARCH SOCIETY, pp. 19-25, Materials Research Society Symposium, 1/01/00. <https://doi.org/10.1557/opl.2015.529>

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. in *TAPPI PLACE Conference 2014*. vol. 2, TAPPI Press, pp. 1039-1061, TAPPI European PLACE Conference, 1/01/00.

Coatanéa, E, Nonsiri, S, Christophe, F & Mokammel, F 2014, Graph based representation and analyses for conceptual stages. in *34th Computers and Information in Engineering Conference*. vol. 1A, The American Society of Mechanical Engineers ASME, ASME 2014 International Design Engineering Technical Conferences and Computers and Information in Engineering Conference, IDETC/CIE 2014, Buffalo, United States, 17/08/14. <https://doi.org/10.1115/DETC201435652>

Saintsing, CD, Cook, BS & Tentzeris, MM 2014, An origami inspired reconfigurable spiral antenna. in *38th Mechanisms and Robotics Conference*. vol. 5B, The American Society of Mechanical Engineers ASME, ASME 2014 International Design Engineering Technical Conferences and Computers and Information in Engineering Conference, IDETC/CIE 2014, Buffalo, United States, 17/08/14. <https://doi.org/10.1115/DETC201435353>

Mokammel, F, Coatanea, E, Christophe, F, Ba Khouya, M & Medyna, G 2013, Towards an approach for evaluating the quality of requirements. in *33rd Computers and Information in Engineering Conference*. vol. 2 B, V02BT02A024, American Society of Mechanical Engineers, ASME 2013 International Design Engineering Technical Conferences and Computers and Information in Engineering Conference, IDETC/CIE 2013, Portland, OR, United States, 4/08/13. <https://doi.org/10.1115/DETC2013-13708>

Alatalo, M, Pitkänen, H, Ropo, M, Kokko, K & Vitos, L 2013, Modeling of steels and steel surfaces using quantum mechanical first principles methods. in *Physical and Numerical Simulation of Materials Processing VII*. vol. 762, Materials Science Forum, vol. 762, pp. 445-450, 7th International Conference on Physical and Numerical Simulation of Materials Processing, ICPNS 2013, Oulu, Finland, 16/06/13. <https://doi.org/10.4028/www.scientific.net/MSF.762.445>

Ronkainen, H, Kanerva, U, Varis, T, Ruusuvuori, K, Turunen, E, Peräntie, J, Putaala, J, Juuti, J & Jantunen, H 2013, Materials for electronics by thermal spraying. in *Physical and Numerical Simulation of Materials Processing VII*. vol. 762, Materials Science Forum, vol. 762, pp. 451-456, 7th International Conference on Physical and Numerical Simulation of Materials Processing, ICPNS 2013, Oulu, Finland, 16/06/13. <https://doi.org/10.4028/www.scientific.net/MSF.762.451>

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. in *14th European PLACE Conference 2013*. vol. 1, TAPPI Press, pp. 469-493, 14th European PLACE Conference 2013, Dresden, Germany, 6/05/13.

Rasilo, P, Belahcen, A & Arkkio, A 2012, Effect of rotor pole-shoe construction on losses of inverter-fed synchronous motors. in *Proceedings - 2012 20th International Conference on Electrical Machines, ICEM 2012*. pp. 1282-1286, 2012 20th International Conference on Electrical Machines, ICEM 2012, Marseille, France, 2/09/12. <https://doi.org/10.1109/ICEIMach.2012.6350042>

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. in *2012 15th International IEEE Conference on Intelligent Transportation Systems, ITSC 2012*., 6338748, pp. 975-982, 2012 15th International IEEE Conference on Intelligent Transportation Systems, ITSC 2012, Anchorage, AK, United States, 16/09/12. <https://doi.org/10.1109/ITSC.2012.6338748>

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. in *Nanoscale Materials Modification by Photon, Ion, and Electron Beams*. vol. 1450, pp. 8-13, 2012 MRS Spring Meeting, San Francisco, CA, United States, 9/04/12. <https://doi.org/10.1557/opl.2012.1224>

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). in *Multifunctional Polymer-Based Materials*. vol. 1403, pp. 171-176, 2011 MRS Fall Meeting, Boston, MA, United States, 28/11/11. <https://doi.org/10.1557/opl.2012.702>

Medyna, G, Coatanea, E & Millet, D 2011, Evaluation of parts of a boat cabin based on exergy - Focusing on environmental and economic assessments. in *ASME 2011 International Mechanical Engineering Congress and Exposition, IMECE 2011. PARTS A AND B* edn, vol. 4, AMER SOC MECHANICAL ENGINEERS, pp. 1083-1092, ASME INTERNATIONAL MECHANICAL ENGINEERING CONGRESS AND EXPOSITION, 1/01/00.

Christophe, F, Ritola, T, Coatanéa, E & Bernard, A 2011, Semantic analysis of function-solution duality. in *ASME 2011 International Mechanical Engineering Congress and Exposition, IMECE 2011*. vol. 3, pp. 611-619, ASME INTERNATIONAL MECHANICAL ENGINEERING CONGRESS AND EXPOSITION, 1/01/00. <https://doi.org/10.1115/IMECE2011-63546>

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. in *13th European PLACE Conference 2011*. vol. 1, TAPPI European PLACE Conference, 1/01/00.

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. in *13th European PLACE Conference 2011*. vol. 1, pp. 447, 13th European PLACE Conference 2011, Bregenz, Austria, 30/05/11.

Coatanéa, E, Ritola, T, Tumer, IY & Jensen, D 2010, A framework for building behavioral models for design-stage failure identification using dimensional analysis. in *Proceedings of the ASME Design Engineering Technical Conference*. vol. 5, AMER SOC MECHANICAL ENGINEERS, pp. 591-601, ASME International Design Engineering Technical Conferences / Computers and Information in Engineering Conference, Canada, 15/08/10. <https://doi.org/10.1115/DETC2010-28864>

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. in *TAPPI Press - 12th European PLACE Conference 2009*. vol. 1, pp. 278-314, 12th European PLACE Conference 2009, Budapest, Hungary, 18/05/09.

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. in *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, pp. 173-182, ASME International Design Engineering Technical Conferences/Computers and Information in Engineering Conference, Finland, 4/09/07. <https://doi.org/10.1115/DETC2007-34364>

- Lahtinen, K & Kuusipalo, J 2008, Statistical modeling of water vapor transmission rates for extrusion-coated papers. in *TAPPI 2008 PLACE Conference: Innovations in Flexible Consumer Packaging*. TAPPI 2008 PLACE Conference: Innovations in Flexible Consumer Packaging, Portsmouth, VA, United States, 14/09/08.
- 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. in *Lecture Notes in Mechanical Engineering*. Lecture Notes in Mechanical Engineering, Pleiades Publishing, pp. 51-60, World Congress on Engineering Asset Management, 1/01/00. https://doi.org/10.1007/978-3-319-95711-1_6
- Seppälä, J & Salmenperä, M 2015, Towards dependable automation. in *Cyber Security: Analytics, Technology and Automation: Part IV*. Intelligent Systems, Control and Automation: Science and Engineering, vol. 78, Springer International Publishing, pp. 229-249. https://doi.org/10.1007/978-3-319-18302-2_15
- Santa-aho, S, Laitinen, A, Sorsa, A & Vippola, M 2019, 'Barkhausen Noise Probes and Modelling: A Review', *Journal of Nondestructive Evaluation*, vol. 38, no. 4, 94. <https://doi.org/10.1007/s10921-019-0636-z>
- 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*, vol. 28, no. 44, 444001. <https://doi.org/10.1088/1361-6528/aa6792>
- Teisala, H, Tuominen, M & Kuusipalo, J 2014, 'Superhydrophobic Coatings on Cellulose-Based Materials: Fabrication, Properties, and Applications', *Advanced Materials Interfaces*, vol. 1, no. 1, 1300026, pp. 1-20. <https://doi.org/10.1002/admi.201300026>
- Lappalainen, K, Wang, GC & Kleissl, J 2020, 'Estimation of the largest expected photovoltaic power ramp rates', *Applied Energy*, vol. 278, 115636. <https://doi.org/10.1016/j.apenergy.2020.115636>
- 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*, vol. 151, 106389. <https://doi.org/10.1016/j.triboint.2020.106389>
- Kivioja, H & Vinha, J 2020, 'Hot-box measurements to investigate the internal convection of highly insulated loose-fill insulation roof structures', *Energy and Buildings*, vol. 216, 109934. <https://doi.org/10.1016/j.enbuild.2020.109934>
- 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*, vol. 11, no. 5, 497. <https://doi.org/10.3390/M11050497>
- 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*, vol. 127, 105973. <https://doi.org/10.1016/j.optlaseng.2019.105973>
- 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*, vol. 11, no. 2, pp. 1-8. <https://doi.org/10.3390/mi11020225>
- 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>
- 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>

- Paunonen, L & Seifert, D 2020, 'Asymptotics and approximation of large systems of ordinary differential equations', *Systems and Control Letters*, vol. 140, 104703. <https://doi.org/10.1016/j.sysconle.2020.104703>
- Juoksukangas, J, Hintikka, J, Lehtovaara, A, Mäntylä, A, Vaara, J & Frondelius, T 2020, 'Avoiding the high friction peak in fretting contact', *Rakenteiden Mekaniikka*, vol. 53, no. 1, pp. 12-19. <https://doi.org/10.23998/rm.76266>
- Holopainen, S 2020, 'Käyräviivaiset koordinaatit kontinuumimekaniikassa', *Rakenteiden Mekaniikka*, vol. 53, no. 2, pp. 53-66. <https://doi.org/10.23998/rm.83338>
- Mäntylä, A, Juoksukangas, J, Hintikka, J, Frondelius, T & Lehtovaara, A 2020, 'FEM-based wear simulation for fretting contacts', *Rakenteiden Mekaniikka*, vol. 53, no. 1, pp. 20-27. <https://doi.org/10.23998/rm.76261>
- 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 scCO₂-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>
- 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*, vol. 195, 108907. <https://doi.org/10.1016/j.matdes.2020.108907>
- Nommeots-Nomm, A, Houaoui, A, Pradeepan Packiyathanar, 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*, vol. 117, 111269. <https://doi.org/10.1016/j.msec.2020.111269>
- 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*, vol. 150, 105618. <https://doi.org/10.1016/j.jaerosci.2020.105618>
- 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>
- Vitola, V, Lahti, V, Bite, I, Spustaka, A, Millers, D, Lastusaari, M, Petit, L & Smits, K 2020, 'Low temperature afterglow from SrAl₂O₄: Eu, Dy, B containing glass', *Scripta Materialia*, vol. 190, pp. 86-90. <https://doi.org/10.1016/j.scriptamat.2020.08.023>
- Pajarinen, J, Arenz, O, Peters, J & Neumann, G 2020, 'Probabilistic approach to physical object disentangling', *IEEE Robotics and Automation Letters*, vol. 5, no. 4, pp. 5510-5517. <https://doi.org/10.1109/LRA.2020.3006789>
- 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*, vol. 5, no. 4, pp. 5323-5330. <https://doi.org/10.1109/LRA.2020.3007445>
- 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*, vol. 254, 113636. <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>
- 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*, vol. 143, 106073. <https://doi.org/10.1016/j.triboint.2019.106073>

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*, vol. 138, pp. 250-262. <https://doi.org/10.1016/j.triboint.2019.05.032>

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*, vol. 13, no. 10, pp. 1499-1506. <https://doi.org/10.1049/iet-its.2018.5349>

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*, vol. 19, no. 9, pp. 6429-6434. <https://doi.org/10.1021/acs.nanolett.9b02638>

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

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>

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>

Szczodra, A, Mardoukhi, A, Hokka, M, Boetti, NG & Petit, L 2019, 'Fluorine losses in Er³⁺ oxyfluoride phosphate glasses and glass-ceramics', *Journal of Alloys and Compounds*, vol. 797, pp. 797-803. <https://doi.org/10.1016/j.jallcom.2019.05.151>

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*, vol. 54, no. 15, pp. 10884-10901. <https://doi.org/10.1007/s10853-019-03422-x>

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*, vol. 19, no. 7, pp. 4614-4619. <https://doi.org/10.1021/acs.nanolett.9b01583>

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*, vol. 124, pp. 361-370. <https://doi.org/10.1016/j.ijfatigue.2019.03.004>

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*, vol. 19, no. 6, pp. 3905-3911. <https://doi.org/10.1021/acs.nanolett.9b01112>

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*, vol. 99, pp. 905-918. <https://doi.org/10.1016/j.msec.2019.02.035>

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*, vol. 190, pp. 132-143. <https://doi.org/10.1016/j.enbuild.2019.02.024>

Itävuo, P, Hulthén, E, Yahyaei, M & Vilkkö, M 2019, 'Mass balance control of crushing circuits', *Minerals Engineering*, vol. 135, pp. 37-47. <https://doi.org/10.1016/j.mineng.2019.02.033>

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*, vol. 141, no. 4, 041402. <https://doi.org/10.1115/1.4042342>

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*, vol. 233, no. 3, pp. 335-347. <https://doi.org/10.1177/0959651818793454>

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*, vol. 131, pp. 258-267. <https://doi.org/10.1016/j.triboint.2018.09.012>

Hintikka, J, Mäntylä, A, Vaara, J, Frondelius, T & Lehtovaara, A 2019, 'Stable and unstable friction in fretting contacts', *Tribology International*, vol. 131, pp. 73-82. <https://doi.org/10.1016/j.triboint.2018.10.014>

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

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*, vol. 37, no. 1, pp. 299-306. <https://doi.org/10.1016/j.proci.2018.05.050>

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*, vol. 182, pp. 196-204. <https://doi.org/10.1016/j.enbuild.2018.10.026>

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*, vol. 31, no. 2, 1805985. <https://doi.org/10.1002/adma.201805985>

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*, vol. 129, pp. 257-271. <https://doi.org/10.1016/j.triboint.2018.08.021>

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*, vol. 129, pp. 476-493. <https://doi.org/10.1016/j.triboint.2018.08.016>

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>

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>

Lemouagna, 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>

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>

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>

Houaoui, A, Lyyra, 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*, vol. 107, 110340. <https://doi.org/10.1016/j.msec.2019.110340>

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>

Väläkangas, 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>

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>

Linjama, M 2019, 'Variable speed drive with hydraulic boost', *International Journal of Fluid Power*, vol. 20, no. 1, pp. 99-123. <https://doi.org/10.13052/ijfp1439-9776.2014>

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*, vol. 18, no. 12, pp. 7709-7714. <https://doi.org/10.1021/acs.nanolett.8b03378>

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

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*, vol. 5, no. 20. <https://doi.org/10.1002/admi.201800828>

Šutka, A, Käämbre, T, Joost, U, Kooser, K, Kook, M, Duarte, RF, Kisand, V, Maiorov, M, Döbelin, N & Smits, K 2018, 'Solvochemical synthesis derived Co-Ga codoped ZnO diluted magnetic degenerated semiconductor nanocrystals', *Journal of Alloys and Compounds*, vol. 763, pp. 164-172. <https://doi.org/10.1016/j.jallcom.2018.05.036>

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*, vol. 849, pp. 860-884. <https://doi.org/10.1017/jfm.2018.412>

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

Roldán Del Cerro, P, Salminen, T, Lastusaari, M & Petit, L 2018, 'Persistent luminescent borosilicate glasses using direct particles doping method', *Scripta Materialia*, vol. 151, pp. 38-41. <https://doi.org/10.1016/j.scriptamat.2018.03.034>

- Nommeots-Nomm, A, Boetti, NG, Salminen, T, Massera, J, Hokka, M & Petit, L 2018, 'Luminescence of Er³⁺ doped oxyfluoride phosphate glasses and glass-ceramics', *Journal of Alloys and Compounds*, vol. 751, pp. 224-230. <https://doi.org/10.1016/j.jallcom.2018.04.101>
- 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*, vol. 27, no. 6, pp. 2978-2992. <https://doi.org/10.1007/s11665-018-3376-9>
- Oluoti, K, Doddapaneni, TRKC & Richards, T 2018, 'Investigating the kinetics and biofuel properties of *Alstonia congensis* and *Ceiba pentandra* via torrefaction', *Energy*, vol. 150, pp. 134-141. <https://doi.org/10.1016/j.energy.2018.02.086>
- 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*, vol. 85, pp. 68-78. <https://doi.org/10.1016/j.msec.2017.12.013>
- Mohammed, WM, Ramis Ferrer, B, Iarovy, 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*, pp. 1-13. <https://doi.org/10.1080/0951192X.2017.1407874>
- 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*, vol. 216, pp. 1-9. <https://doi.org/10.1016/j.fuel.2017.11.152>
- Välikangas, T & Karvinen, R 2018, 'Conjugated Heat Transfer Simulation of a Fin-and-Tube Heat Exchanger', *Heat Transfer Engineering*, vol. 39, no. 13-14, pp. 1192-1200. <https://doi.org/10.1080/01457632.2017.1363628>
- Zeng, H, Wasylczyk, P, Wiersma, DS & Priimagi, A 2018, 'Light Robots: Bridging the Gap between Microrobotics and Photomechanics in Soft Materials', *Advanced Materials*, vol. 30, no. 24, 1703554. <https://doi.org/10.1002/adma.201703554>
- Välikangas, 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*, vol. 118, pp. 602-616. <https://doi.org/10.1016/j.ijheatmasstransfer.2017.11.006>
- 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*, vol. 232, no. 1, pp. 3-13. <https://doi.org/10.1177/1350650117739125>
- Doddapaneni, TRKC, Praveenkumar, R, Tolvanen, H, Rintala, J & Konttinen, J 2018, 'Techno-economic evaluation of integrating torrefaction with anaerobic digestion', *Applied Energy*, vol. 213, pp. 272-284. <https://doi.org/10.1016/j.apenergy.2018.01.045>
- 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*, vol. 30, no. 14, 1706529. <https://doi.org/10.1002/adma.201706529>
- Jaurola, M, Hedin, A, Tikkanen, S & Huhtala, K 2018, 'TOpti: 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>
- 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*, vol. 115, pp. 116-139. <https://doi.org/10.1016/j.triboint.2017.05.010>

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*, vol. 128, pp. 155-163. <https://doi.org/10.1016/j.compositesb.2017.07.010>

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*, vol. 139, no. 10, 101008. <https://doi.org/10.1115/1.4036537>

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

Laurila, MM, Khorramdel, 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*, vol. 27, no. 9, 095005. <https://doi.org/10.1088/1361-6439/aa7a71>

Antin, KN & Pärnänen, T 2017, 'Democratizing composites manufacturing -inexpensive tooling empowers new players', *SAMPE Journal*, vol. 53, no. 4, pp. 6-10.

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*, vol. 93, pp. 55-65. <https://doi.org/10.1016/j.optlaseng.2017.01.012>

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

Lanz, M & Tuokko, R 2017, 'Concepts, methods and tools for individualized production', *PRODUCTION ENGINEERING*, vol. 11, no. 2, pp. 205-212. <https://doi.org/10.1007/s11740-017-0728-5>

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*, vol. 139, pp. 124-132. <https://doi.org/10.1016/j.enbuild.2017.01.005>

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*, vol. 27, no. 4, 045009. <https://doi.org/10.1088/1361-6439/aa5ef3>

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*, vol. 57, no. 2, pp. 219-229. <https://doi.org/10.1007/s11340-016-0237-z>

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*, vol. 692, pp. 190-197. <https://doi.org/10.1016/j.jallcom.2016.09.058>

Hintikka, J, Lehtovaara, A & Mäntylä, A 2017, 'Third Particle Ejection Effects on Wear with Quenched and Tempered Steel Fretting Contact', *TRIBOLOGY TRANSACTIONS*, vol. 60, no. 1, pp. 70-78. <https://doi.org/10.1080/10402004.2016.1146813>

Wang, X, Fagerlund, S, Massera, J, Södergård, B & Hupa, L 2017, 'Do properties of bioactive glasses exhibit mixed alkali behavior?', *Journal of Materials Science*, vol. 52, no. 15, pp. 8986-8997. <https://doi.org/10.1007/s10853-017-0915-y>

- 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*, vol. 52, no. 15, pp. 8957–8972. <https://doi.org/10.1007/s10853-017-0805-3>
- 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*, vol. 24, no. 6, pp. 1545–1554. <https://doi.org/10.1007/s10934-017-0394-1>
- 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*, vol. 18, no. 3, pp. 141-152. <https://doi.org/10.1080/14399776.2017.1302775>
- 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*, vol. 4, no. 18, 1700161. <https://doi.org/10.1002/admi.201700161>
- 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*, vol. 125, pp. 68-76. <https://doi.org/10.1016/j.ijsolstr.2017.07.015>
- 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*, vol. 35, no. 1-2, pp. 5-21.
- 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*, vol. 112, pp. 324-331. <https://doi.org/10.1016/j.fusengdes.2016.08.023>
- Juoksukangas, J, Lehtovaara, A & Mäntylä, A 2016, 'Experimental and numerical investigation of fretting fatigue behavior in bolted joints', *Tribology International*, vol. 103, pp. 440-448. <https://doi.org/10.1016/j.triboint.2016.07.021>
- Järvinen, H, Isakov, M, Nyssönen, 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*, vol. 676, pp. 109-120. <https://doi.org/10.1016/j.msea.2016.08.096>
- 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*, vol. 129, pp. 199-206. <https://doi.org/10.1016/j.enbuild.2016.08.015>
- 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*, vol. 230, no. 10, pp. 1273-1287. <https://doi.org/10.1177/1350650116633573>
- Lindgren, M, Santa-aho, S & Vippola, M 2016, 'Barkhausen noise response of three different welded duplex stainless steels', *Insight*, vol. 58, no. 9, pp. 480-486. <https://doi.org/10.1784/insi.2016.58.9.480>
- Luna, E, Wu, M, Hanke, M, Puustinen, J, Guina, M & Trampert, A 2016, 'Spontaneous formation of three-dimensionally ordered Bi-rich nanostructures within GaAs_{1-x}Bi_x/GaAs quantum wells', *Nanotechnology*, vol. 27, no. 32, 325603. <https://doi.org/10.1088/0957-4484/27/32/325603>
- 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*, vol. 99, pp. 509-520. <https://doi.org/10.1016/j.matdes.2016.03.081>

Philippi, PC, Siebert, DN, Hegele, LA & Mattila, KK 2016, 'High-order lattice-Boltzmann', *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, vol. 38, no. 5, pp. 1401-1419. <https://doi.org/10.1007/s40430-015-0441-2>

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_x/Semiconductor Junctions', *Advanced Materials Interfaces*, vol. 3, no. 11, 1500510. <https://doi.org/10.1002/admi.201500510>

Janka, L, Norpoth, J, Eicher, S, Rodríguez Ripoll, M & Vuoristo, P 2016, 'Improving the toughness of thermally sprayed Cr₃C₂-NiCr hardmetal coatings by laser post-treatment', *Materials and Design*, vol. 98, pp. 135-142. <https://doi.org/10.1016/j.matdes.2016.03.007>

Hokka, M, Black, J, Tkalich, 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*, vol. 91, pp. 183-193. <https://doi.org/10.1016/j.ijimpeng.2016.01.010>

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*, vol. 56, pp. 69-75. <https://doi.org/10.1016/j.ijrmhm.2015.11.014>

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*, vol. 85, pp. 114-129. <https://doi.org/10.1016/j.ijfatigue.2015.12.008>

Andersson, P, Kilpi, L, Holmberg, K, Vaajoki, A & Oksanen, V 2016, 'Static friction measurements on steel against uncoated and coated cast iron', *Tribologia*, vol. 34, no. 1-2, pp. 5-40.

Hintikka, J, Lehtovaara, A & Mäntylä, A 2016, 'Normal displacements in non-Coulomb friction conditions during fretting', *Tribology International*, vol. 94, pp. 633-639. <https://doi.org/10.1016/j.triboint.2015.10.029>

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*, vol. 95, pp. 372-390. <https://doi.org/10.1016/j.triboint.2015.11.036>

Paris, H, Mokhtarian, H, Coatanéa, E, Museau, M & Ituarte, IF 2016, 'Comparative environmental impacts of additive and subtractive manufacturing technologies', *CIRP Annals: Manufacturing Technology*, vol. 65, no. 1, pp. 29-32. <https://doi.org/10.1016/j.cirp.2016.04.036>

Hilliaho, K, Köliö, A, Pakkala, T, Lahdensivu, J & Vinha, J 2016, 'Effects of added glazing on Balcony indoor temperatures: Field measurements', *Energy and Buildings*, vol. 128, pp. 458-472. <https://doi.org/10.1016/j.enbuild.2016.07.025>

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*, vol. 14, no. 12, pp. 1252-1261. <https://doi.org/10.1038/nmat4389>

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*, vol. 107, pp. 226-233. <https://doi.org/10.1016/j.enbuild.2015.08.020>

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 P2O5 and Al2O3: Influence of the silica content on the structure and thermal, physical, optical and luminescence properties', *Materials Research Bulletin*, vol. 70, pp. 47-54. <https://doi.org/10.1016/j.materresbull.2015.04.017>

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*, vol. 105, pp. 247-257. <https://doi.org/10.1016/j.enbuild.2015.07.036>

Gashti, EHN, Malaska, M & Kujala, K 2015, 'Analysis of thermo-active pile structures and their performance under groundwater flow conditions', *Energy and Buildings*, vol. 105, pp. 1-8. <https://doi.org/10.1016/j.enbuild.2015.07.026>

Syrjärinne, P, Nummenmaa, J, Thanisch, P, Kerminen, R & Hakulinen, E 2015, 'Analysing traffic fluency from bus data', *IET Intelligent Transport Systems*, vol. 9, no. 6, pp. 566-572. <https://doi.org/10.1049/iet-its.2014.0192>

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*, vol. 56, pp. 5584-5584, pp. 457-466. <https://doi.org/10.1016/j.msec.2015.07.013>

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*, vol. 26, no. 27, pp. 275301. <https://doi.org/10.1088/0957-4484/26/27/275301>

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*, vol. 98-99, pp. 1437-1441. <https://doi.org/10.1016/j.fusengdes.2015.06.056>

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*, vol. 92, pp. 191-202. <https://doi.org/10.1016/j.triboint.2015.06.008>

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*, vol. 27, no. 22, pp. 3398-3404. <https://doi.org/10.1002/adma.201500954>

Le, T, Lin, Z, Wong, CP & Tentzeris, MM 2015, 'Smart Skins: Could they be the ultimate sensing tool? Today's flexible electronics industry and personal medical care both strongly demand accurate, reliable, robust, low-cost', *IEEE Nanotechnology Magazine*, vol. 9, no. 2, pp. 7080864, pp. 4-10. <https://doi.org/10.1109/MNANO.2015.2410474>

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*, vol. 626, pp. 349-359. <https://doi.org/10.1016/j.jallcom.2014.12.048>

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*, vol. 15, no. 3, pp. 1564-1569. <https://doi.org/10.1021/nl503984b>

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*, vol. 57, no. 2, pp. 15. <https://doi.org/10.1007/s11249-014-0460-7>

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*, vol. 15, no. 1, pp. 530-534. <https://doi.org/10.1021/nl503901e>

Mettänen, M & Hirn, U 2015, 'A comparison of five optical surface topography measurement methods', *TAPPI Journal*, vol. 14, no. 1, pp. 27-38.

- Sekki, T, Airaksinen, M & Saari, A 2015, 'Measured energy consumption of educational buildings in a Finnish city', *Energy and Buildings*, vol. 87, pp. 105-115. <https://doi.org/10.1016/j.enbuild.2014.11.032>
- 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*, vol. 83, pp. 114-119. <https://doi.org/10.1016/j.triboint.2014.11.007>
- 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*, vol. 78, pp. 114-127. <https://doi.org/10.1016/j.ijimpeng.2014.12.002>
- 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*, vol. 57, no. 3, 24. <https://doi.org/10.1007/s11249-015-0477-6>
- 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, 'Fe₂O₃-TiO₂ Nano-heterostructure Photoanodes for Highly Efficient Solar Water Oxidation', *Advanced Materials Interfaces*, vol. 2, no. 17. <https://doi.org/10.1002/admi.201500313>
- 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*, vol. 27, no. 5, pp. 911-916. <https://doi.org/10.1002/adma.201403541>
- Sariola, V & Sitti, M 2014, 'Mechanically Switchable Elastomeric Microfibrillar Adhesive Surfaces for Transfer Printing', *Advanced Materials Interfaces*, vol. 1, no. 4, 1300159. <https://doi.org/10.1002/admi.201300159>
- Borah, D, Rasappa, S, Senthamarai Kannan, 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*, vol. 1, no. 3, 1300102. <https://doi.org/10.1002/admi.201300102>
- 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*, vol. 58, pp. 1-11. <https://doi.org/10.1016/j.matdes.2014.01.071>
- 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*, vol. 13, no. 6, pp. 2857-2863. <https://doi.org/10.1021/nl4012003>
- Colace, L, Santoni, F & Assanto, G 2013, 'A near-infrared optoelectronic approach to detection of road conditions', *Optics and Lasers in Engineering*, vol. 51, no. 5, pp. 633-636. <https://doi.org/10.1016/j.optlaseng.2013.01.003>
- Liimatainen, V, Sariola, V & Zhou, Q 2013, 'Controlling liquid spreading using microfabricated undercut edges', *Advanced Materials*, vol. 25, no. 16, pp. 2275-2278. <https://doi.org/10.1002/adma.201204696>
- 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*, vol. 25, no. 14, pp. 2090-2094. <https://doi.org/10.1002/adma.201203587>
- 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*, vol. 33, no. 3, pp. 1170-1175. <https://doi.org/10.1016/j.msec.2012.12.007>

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*, vol. 24, no. 6, 065503. <https://doi.org/10.1088/0957-4484/24/6/065503>

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*, vol. 13, no. 2, pp. 350-357. <https://doi.org/10.1021/nl303161d>

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*, vol. 66, no. 1-2, pp. 25-31.

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*, vol. 32, no. 8, pp. 2306-2315. <https://doi.org/10.1016/j.msec.2012.07.001>

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*, vol. 108-109, pp. 110-117. <https://doi.org/10.1016/j.compstruc.2012.02.009>

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*, vol. 65, no. 7-8, pp. 44-46.

Ahmed, R, Priimagi, A, Faul, CFJ & Manners, I 2012, 'Redox-active, organometallic surface-relief gratings from azobenzene-containing polyferrocenylsilane block copolymers', *Advanced Materials*, vol. 24, no. 7, pp. 926-931. <https://doi.org/10.1002/adma.201103793>

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*, vol. 39, pp. 410-417. <https://doi.org/10.1016/j.matdes.2012.03.007>

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*, vol. 43, no. 11, pp. 3279-3288. <https://doi.org/10.1016/j.enbuild.2011.08.033>

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*, vol. 23, no. 36, pp. 4174-4177. <https://doi.org/10.1002/adma.201101888>

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*, vol. 21, no. 9, 095024. <https://doi.org/10.1088/0960-1317/21/9/095024>

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*, vol. 22, no. 27, 275610. <https://doi.org/10.1088/0957-4484/22/27/275610>

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*, vol. 62, no. 7, pp. 642-649. <https://doi.org/10.1002/maco.201005898>

Lisjak, D, Lintunen, P, Hujanen, A, Varis, T, Bolelli, G, Lusvarghi, L, Jagodič, M & Drofenik, M 2011, 'Hexaferrite/polyethylene Composite coatings prepared with flame spraying', *Materials Letters*, vol. 65, no. 3, pp. 534-536. <https://doi.org/10.1016/j.matlet.2010.10.076>

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*, vol. 21, no. 1, 015016. <https://doi.org/10.1088/0960-1317/21/1/015016>

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*, vol. 207-209, no. PART 2, pp. 645-648.