

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>

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](https://doi.org/10.1007/978-3-319-95711-1_6)

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>

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>

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.

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

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>

Banichuk, N, Ivanova, S & Jeronen, J 2020, Moving Web and Dynamic Problem of Aerothermoelastic Vibrations and Instability. in DA Indeitsev & AM Krivtsov (eds), *Advanced Problems in Mechanics: Proceedings of the 47th International Summer School-Conference on Advanced Problems in Mechanics, APM 2019*. Lecture Notes in Mechanical Engineering, Springer, pp. 66-71, International Summer School-Conference on Advanced Problems in Mechanics, St. Petersburg, Russian Federation, 24/06/19. [https://doi.org/10.1007/978-3-030-49882-5\\_7](https://doi.org/10.1007/978-3-030-49882-5_7)

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*, vol. 2, no. 17. <https://doi.org/10.1002/admi.201500313>

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>

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>

Belardini, A, Leahu, G, Petronijevic, E, Hakkarainen, T, Koivusalo, E, Piton, MR, Talmila, S, Guina, M & Sibilica, 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>

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>

- 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>
- 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>
- Borah, D, Rasappa, S, Senthamaraikannan, 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>

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>

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>

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>

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>

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>

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>

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>

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>

Czaplicki, R, Mäkitalo, J, Siikonen, 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>

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>

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.

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](https://doi.org/10.1007/978-3-030-41057-5_61)

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>

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>

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>

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>

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>

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>

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>

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>

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>

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>

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.

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

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.

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>

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, 275301. <https://doi.org/10.1088/0957-4484/26/27/275301>

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>

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.

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>

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>

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>

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>

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>

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>

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](https://doi.org/10.1007/978-3-319-06995-1_34)

Hokka, M, Black, J, Tklich, 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>

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](https://doi.org/10.1007/978-3-319-21455-9_6)

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>

Holopainen, S 2020, 'Käyräviivaiset koordinaatitot kontinuumimekaniikassa', *Rakenteiden Mekaniikka*, vol. 53, no. 2, pp. 53-66. <https://doi.org/10.23998/rm.83338>

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>

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>

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>

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>

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>

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>

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>

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>

Itävuori, P, Hulthén, E, Yahyaei, M & Vilkkonen, 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>

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*, vol. 98, pp. 135-142. <https://doi.org/10.1016/j.matdes.2016.03.007>

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*, vol. 676, pp. 109-120. <https://doi.org/10.1016/j.msea.2016.08.096>

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>

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>

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>

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>

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>

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>

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>

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>

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>

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>

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](https://doi.org/10.1007/978-3-319-61276-8_24)

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>

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>

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>

- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- Kreutzer, J, Viehrig, M, Pölonen, 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>
- 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>
- 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>
- 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.
- 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*, vol. 3, no. 11, 1500510. <https://doi.org/10.1002/admi.201500510>
- 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>
- 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.



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

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>

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>

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>

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>

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>

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>

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>

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>

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*, vol. 20, no. 1, pp. 99-123. <https://doi.org/10.13052/ijfp1439-9776.2014>

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>

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>

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*, vol. 65, no. 3, pp. 534-536. <https://doi.org/10.1016/j.matlet.2010.10.076>

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.

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*, vol. 27, no. 32, 325603. <https://doi.org/10.1088/0957-4484/27/32/325603>

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>

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>

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>

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>

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>

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>

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>

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>

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>

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>

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>

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>

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 HVOF spray processes', *Tribologia*, vol. 36, no. 1-2, pp. 58-61. <https://doi.org/10.30678/FJT.83590>

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.

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>

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

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.

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.

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>

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>

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>

Motlagh, HDK, Lotfi, F, Taghirad, HD & Germi, 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>

- Netzev, M, Angleraud, A & Pieters, R 2020, 'Soft robotic gripper with compliant cell stacks for industrial part handling', *IEEE Robotics and Automation Letters*, vol. 5, no. 4, pp. 6821-6828. <https://doi.org/10.1109/LRA.2020.3020546>
- 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>
- 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*, vol. 751, pp. 224-230. <https://doi.org/10.1016/j.jallcom.2018.04.101>
- 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*, vol. 117, 111269. <https://doi.org/10.1016/j.msec.2020.111269>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>

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>

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>

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>

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

Pykkänen, 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>

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>

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>

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>

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, 15. <https://doi.org/10.1007/s11249-014-0460-7>

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>

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>

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>

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. 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>

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>

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>

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>

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>

Sajna, MS, Perumbilavil, S, Prakashan, VP, Sanu, 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*, vol. 104, pp. 227-235. <https://doi.org/10.1016/j.materresbull.2018.04.026>

Sanchez-Guevara, C, Núñez Peiró, M, Taylor, J, Mavrogiani, 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>

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>

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>

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>

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>

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>

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>

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>

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>

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>

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](https://doi.org/10.1007/978-3-319-18302-2_15)

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>

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.

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>

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](https://doi.org/10.1007/978-3-319-63552-1_4)

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>

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.

Subramaniam, 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>

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.

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.

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*, vol. 763, pp. 164-172. <https://doi.org/10.1016/j.jallcom.2018.05.036>

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>

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*, vol. 797, pp. 797-803. <https://doi.org/10.1016/j.jallcom.2019.05.151>



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>

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>

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>

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.

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>

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>

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>

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>

Tzounis, L, Debnath, S, Rooj, 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>

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.

Väläkangas, 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>

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*, vol. 118, pp. 602-616. <https://doi.org/10.1016/j.ijheatmasstransfer.2017.11.006>

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>

- 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>
- 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](https://doi.org/10.1007/978-3-319-62956-8_1)
- 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*, vol. 190, pp. 86-90. <https://doi.org/10.1016/j.scriptamat.2020.08.023>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>

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>

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>

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>