

- Zhang, H., Zeng, H., Priimägi, A., & Ikkala, O. (2020). Viewpoint: Pavlovian Materials—Functional Biomimetics Inspired by Classical Conditioning. *Advanced Materials*, [1906619]. <https://doi.org/10.1002/adma.201906619>
- Zeng, H., Wasylczyk, P., Wiersma, D. S., & Priimagi, A. (2018). Light Robots: Bridging the Gap between Microrobotics and Photomechanics in Soft Materials. *Advanced Materials*, 30(24), [1703554]. <https://doi.org/10.1002/adma.201703554>
- Ylönen, M., Franc, J. P., Miettinen, J., Saarenrinne, P., & Fivel, M. (2019). Shedding frequency in cavitation erosion evolution tracking. *International Journal of Multiphase Flow*, 118, 141-149. <https://doi.org/10.1016/j.ijmultiphaseflow.2019.06.009>
- 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) <https://doi.org/10.1557/opl.2012.702>
- Wu, H., Sariola, V., Zhu, C., Zhao, J., Sitti, M., & Bettinger, C. J. (2015). Transfer printing of metallic microstructures on adhesion-promoting hydrogel substrates. *Advanced Materials*, 27(22), 3398-3404. <https://doi.org/10.1002/adma.201500954>
- Wu, D., Coatanea, E., & Wang, G. G. (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. <https://doi.org/10.1115/DETC201767601>
- Wu, D., Coatanea, E., & Wang, G. G. (2019). Employing Knowledge on Causal Relationship to Assist Multidisciplinary Design Optimization. *Journal of Mechanical Design, Transactions of the ASME*, 141(4), [041402]. <https://doi.org/10.1115/1.4042342>
- 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* (pp. 1-6). IEEE. <https://doi.org/10.1109/PRECEDE.2019.8753362>
- Wani, O. M., Verpaalen, R., Zeng, H., Priimagi, A., & Schenning, A. P. H. J. (2019). An Artificial Nocturnal Flower via Humidity-Gated Photoactuation in Liquid Crystal Networks. *Advanced Materials*, 31(2), [1805985]. <https://doi.org/10.1002/adma.201805985>
- Wang, X., Fagerlund, S., Massera, J., Södergård, B., & Hupa, L. (2017). Do properties of bioactive glasses exhibit mixed alkali behavior? *Journal of Materials Science*, 52(15), 8986–8997. <https://doi.org/10.1007/s10853-017-0915-y>
- Wang, H., Feng, Y., Fang, Z., Yuan, W., & Khan, M. (2012). Co-electrospun blends of PU and PEG as potential biocompatible scaffolds for small-diameter vascular tissue engineering. *Materials Science and Engineering C: Materials for Biological Applications*, 32(8), 2306-2315. <https://doi.org/10.1016/j.msec.2012.07.001>
- Vuornos, K., Ojansivu, M., Koivisto, J. T., Häkkänen, H., Belay, B., Montonen, T., ... Miettinen, S. (2019). Bioactive glass ions induce efficient osteogenic differentiation of human adipose stem cells encapsulated in gellan gum and collagen type I hydrogels. *Materials Science and Engineering C*, 99, 905-918. <https://doi.org/10.1016/j.msec.2019.02.035>
- Vuorinen, E., Heino, V., Ojala, N., Haiko, O., & Hedayati, A. (2018). Erosive-abrasive wear behavior of carbide-free bainitic and boron steels compared in simulated field conditions. *Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology*, 232(1), 3-13. <https://doi.org/10.1177/1350650117739125>
- Vitola, V., Lahti, V., Bite, I., Spustaka, A., Millers, D., Lastusaari, M., ... Smits, K. (2020). Low temperature afterglow from SrAl<sub>2</sub>O<sub>4</sub>: Eu, Dy, B containing glass. *Scripta Materialia*, 190, 86-90. <https://doi.org/10.1016/j.scriptamat.2020.08.023>

- Vazquez Fernandez, N., Isakov, M., Hokka, M., & Kuokkala, V. T. (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, pp. 1-7). (Conference Proceedings of the Society for Experimental Mechanics). Springer New York LLC. [https://doi.org/10.1007/978-3-319-62956-8\\_1](https://doi.org/10.1007/978-3-319-62956-8_1)
- Valtonen, K., Ratia, V., Ramakrishnan, K. R., Apostol, M., Terva, J., & Kuokkala, V-T. (2019). Impact wear and mechanical behavior of steels at subzero temperatures. *Tribology International*, 129, 476-493. <https://doi.org/10.1016/j.triboint.2018.08.016>
- Välilikangas, T., & Karvinen, R. (2018). Conjugated Heat Transfer Simulation of a Fin-and-Tube Heat Exchanger. *Heat Transfer Engineering*, 39(13-14), 1192-1200. <https://doi.org/10.1080/01457632.2017.1363628>
- Välilikangas, T., Singh, S., Sørensen, K., & Condra, T. (2018). Fin-and-tube heat exchanger enhancement with a combined herringbone and vortex generator design. *International Journal of Heat and Mass Transfer*, 118, 602-616. <https://doi.org/10.1016/j.ijheatmasstransfer.2017.11.006>
- Välilikangas, 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*, [119046]. <https://doi.org/10.1016/j.ijheatmasstransfer.2019.119046>
- 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)
- Tzounis, L., Debnath, S., Rooj, S., Fischer, D., Mäder, E., Das, A., ... Heinrich, G. (2014). High performance natural rubber composites with a hierarchical reinforcement structure of carbon nanotube modified natural fibers. *Materials and Design*, 58, 1-11. <https://doi.org/10.1016/j.matdes.2014.01.071>
- Tuurna, S., Varis, T., Penttilä, K., Ruusuvoori, K., Holmström, S., & Yli-Olli, S. (2011). Optimised selection of new protective coatings for biofuel boiler applications. *Materials and Corrosion-Werkstoffe und Korrosion*, 62(7), 642-649. <https://doi.org/10.1002/maco.201005898>
- Thomas, K., Mohanty, G., Wehrs, J., Taylor, A. A., Pathak, S., Casari, D., ... Michler, J. (2019). Elevated and cryogenic temperature micropillar compression of magnesium–niobium multilayer films. *Journal of Materials Science*, 54(15), 10884-10901. <https://doi.org/10.1007/s10853-019-03422-x>
- 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. <https://doi.org/10.1109/MESA.2018.8449156>
- Teisala, H., Tuominen, M., & Kuusipalo, J. (2014). Superhydrophobic Coatings on Cellulose-Based Materials: Fabrication, Properties, and Applications. *Advanced Materials Interfaces*, 1(1), 1-20. [1300026]. <https://doi.org/10.1002/admi.201300026>
- Teisala, H., Tuominen, M., Aromaa, M., Mäkelä, J. M., Stepien, M., Saarinen, J. J., ... Kuusipalo, J. (2011). Nanoparticle deposition on packaging materials by the liquid flame spray. In *13th European PLACE Conference 2011* (Vol. 1)
- Teisala, H., Geyer, F., Haapanen, J., Juuti, P., Mäkelä, J. M., Vollmer, D., & Butt, H. J. (2018). Ultrafast Processing of Hierarchical Nanotexture for a Transparent Superamphiphobic Coating with Extremely Low Roll-Off Angle and High Impalement Pressure. *Advanced Materials*, 30(14), [1706529]. <https://doi.org/10.1002/adma.201706529>
- Tanskanen, J. M. A., Kapucu, F. E., & Hyttinen, J. A. K. (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* (pp. 1016-1019). IEEE COMPUTER SOCIETY PRESS. <https://doi.org/10.1109/NER.2015.7146799>

Taddeo, R., Prajapati, S., & Lepistö, R. (2017). Optimizing ammonium adsorption on natural zeolite for wastewaters with high loads of ammonium and solids. *Journal of Porous Materials*, 24(6), 1545–1554. <https://doi.org/10.1007/s10934-017-0394-1>

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

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

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

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* (pp. 529-544). TAPPI Press.

Suokas, E. (2019). Effect of polyolefin molecular structure on product properties in extrusion coating. In *17th Biennial TAPPI European PLACE Conference 2019* (pp. 89-98). TAPPI Press.

Subramaniyam, N. P., Hyttinen, J., Hatsopoulos, N. G., & 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* (pp. 960-963). IEEE COMPUTER SOCIETY PRESS. <https://doi.org/10.1109/NER.2015.7146785>

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

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

Soltani, A., Curtze, S., Lahti, J., Järvelä, K., Laurikka, J., Hokka, M., & Kuokkala, V. T. (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, pp. 19-27). (Conference Proceedings of the Society for Experimental Mechanics). Springer New York LLC. [https://doi.org/10.1007/978-3-319-63552-1\\_4](https://doi.org/10.1007/978-3-319-63552-1_4)

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

Singh, A. K., 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* (pp. 1178-1185). IEEE.

Shevkunov, I., Katkovnik, V., Claus, D., Pedrini, G., Petrov, N. V., & Egiazarian, K. (2020). Hyperspectral phase imaging based on denoising in complex-valued eigensubspace. *Optics and Lasers in Engineering*, 127, [105973]. <https://doi.org/10.1016/j.optlaseng.2019.105973>

Seppälä, J., & Salmenperä, M. (2015). Towards dependable automation. In *Cyber Security: Analytics, Technology and Automation: Part IV* (pp. 229-249). (Intelligent Systems, Control and Automation: Science and Engineering; Vol. 78). Springer International Publishing. [https://doi.org/10.1007/978-3-319-18302-2\\_15](https://doi.org/10.1007/978-3-319-18302-2_15)

Sekki, T., Andelin, M., Airaksinen, M., & Saari, A. (2016). Consideration of energy consumption, energy costs, and space occupancy in Finnish daycare centres and school buildings. *Energy and Buildings*, *129*, 199-206. <https://doi.org/10.1016/j.enbuild.2016.08.015>

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

Sekki, T., Airaksinen, M., & Saari, A. (2015). Measured energy consumption of educational buildings in a Finnish city. *Energy and Buildings*, *87*, 105-115. <https://doi.org/10.1016/j.enbuild.2014.11.032>

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

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

Schoeppner, R. L., Mohanty, G., Polyakov, M. N., Petho, L., Maeder, X., & Michler, J. (2020). An exploratory study on strengthening and thermal stability of magnetron sputtered W nanoparticles at the interface of Cu/Ni multilayer films. *Materials and Design*, *195*, [108907]. <https://doi.org/10.1016/j.matdes.2020.108907>

Sautter, J. D., Xu, L., Miroshnichenko, A. E., Lysevych, M., Volkovskaya, I., Smirnova, D. A., ... Rahmani, M. (2019). Tailoring Second-Harmonic Emission from (111)-GaAs Nanoantennas. *Nano Letters*, *19*(6), 3905-3911. <https://doi.org/10.1021/acs.nanolett.9b01112>

Sariola, V., & Sitti, M. (2014). Mechanically Switchable Elastomeric Microfibrillar Adhesive Surfaces for Transfer Printing. *Advanced Materials Interfaces*, *1*(4), [1300159]. <https://doi.org/10.1002/admi.201300159>

Santa-aho, S., Laitinen, A., Sorsa, A., & Vippola, M. (2019). Barkhausen Noise Probes and Modelling: A Review. *Journal of Nondestructive Evaluation*, *38*(4), [94]. <https://doi.org/10.1007/s10921-019-0636-z>

Sanchez-Guevara, C., Núñez Peiró, M., Taylor, J., Mavrogianni, A., & Neila González, J. (2019). Assessing population vulnerability towards summer energy poverty: Case studies of Madrid and London. *Energy and Buildings*, *190*, 132-143. <https://doi.org/10.1016/j.enbuild.2019.02.024>

Sajna, M. S., Perumbilavil, S., Prakashan, V. P., Sanu, M. S., Joseph, C., Biju, P. R., & Unnikrishnan, N. V. (2018). Enhanced resonant nonlinear absorption and optical limiting in Er<sup>3+</sup> ions doped multicomponent tellurite glasses. *Materials Research Bulletin*, *104*, 227-235. <https://doi.org/10.1016/j.materresbull.2018.04.026>

Saintsing, C. D., Cook, B. S., & Tentzeris, M. M. (2014). An origami inspired reconfigurable spiral antenna. In *38th Mechanisms and Robotics Conference* (Vol. 5B). The American Society of Mechanical Engineers ASME. <https://doi.org/10.1115/DETC201435353>

Saarimaa, V., Fuertes, N., Persson, D., Zavalis, T., Kaleva, A., Nikkanen, J-P., ... Heydari, G. (2020). Assessment of pitting corrosion in bare and passivated (wet scCO<sub>2</sub>-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>

Ryynänen, T., Mzezewa, R., Meriläinen, E., Hyvärinen, T., Lekkala, J., Narkilahti, S., & Kallio, P. (2020). Transparent microelectrode arrays fabricated by ion beam assisted deposition for neuronal cell in vitro recordings. *Micromachines*, *11* (5), [497]. <https://doi.org/10.3390/M11050497>

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* (pp. 1-6). IEEE. <https://doi.org/10.1109/PRECEDE.2019.8753318>

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

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

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

Reshef, O., Saad-Bin-Alam, M., Huttunen, M. J., Carlow, G., Sullivan, B. T., Ménard, J. M., ... Boyd, R. W. (2019). Multiresonant High-Q Plasmonic Metasurfaces. *Nano Letters*, *19*(9), 6429-6434. <https://doi.org/10.1021/acs.nanolett.9b02638>

Ratia, V., Rojacz, H., Terva, J., Valtonen, K., Badisch, E., & Kuokkala, V. T. (2015). Effect of Multiple Impacts on the Deformation of Wear-Resistant Steels. *Tribology Letters*, *57*(2), [15]. <https://doi.org/10.1007/s11249-014-0460-7>

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) <https://doi.org/10.1109/ICEIMach.2012.6350042>

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

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

Pylkkänen, K., Nurmikolu, A., Guthrie, W. S., & Argyle, H. M. (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* (pp. 123-134). American Society of Civil Engineers ASCE. <https://doi.org/10.1061/9780784479315.012>

Priimägi, A., & Hecht, S. (Eds.) (2020). From Responsive Molecules to Interactive Materials. *Advanced Materials*, *32*(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*, *32*(20).

Pirjola, L., Kuuluvainen, H., Timonen, H., Saarikoski, S., Teinilä, K., Salo, L., ... Rönkkö, T. (2019). Potential of renewable fuel to reduce diesel exhaust particle emissions. *Applied Energy*, *254*, [113636]. <https://doi.org/10.1016/j.apenergy.2019.113636>

Philippi, P. C., Siebert, D. N., Hegele, L. A., & Mattila, K. K. (2016). High-order lattice-Boltzmann. *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, *38*(5), 1401-1419. <https://doi.org/10.1007/s40430-015-0441-2>

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

Pekkanen, T. T., Timonen, R. S., Lendvay, G., Rissanen, M. P., & Eskola, A. J. (2019). Kinetics and thermochemistry of the reaction of 3-methylpropargyl radical with molecular oxygen. *PROCEEDINGS OF THE COMBUSTION INSTITUTE*, 37(1), 299-306. <https://doi.org/10.1016/j.proci.2018.05.050>

Paunonen, L., & Seifert, D. (2020). Asymptotics and approximation of large systems of ordinary differential equations. *Systems and Control Letters*, 140, [104703]. <https://doi.org/10.1016/j.sysconle.2020.104703>

Paris, H., Mokhtarian, H., Coatanéa, E., Museau, M., & Ituarte, I. F. (2016). Comparative environmental impacts of additive and subtractive manufacturing technologies. *CIRP Annals: Manufacturing Technology*, 65(1), 29-32. <https://doi.org/10.1016/j.cirp.2016.04.036>

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

Palagi, S., Mark, A. G., Melde, K., Qiu, T., Zeng, H., Parmeggiani, C., ... 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*. <https://doi.org/10.1109/MARSS.2017.8001916>

Pajarinen, J., Arenz, O., Peters, J., & Neumann, G. (2020). Probabilistic approach to physical object disentangling. *IEEE Robotics and Automation Letters*, 5(4), 5510-5517. <https://doi.org/10.1109/LRA.2020.3006789>

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

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

Olin, M., & Dal Maso, M. (2020). CFD modeling the diffusional losses of nanocluster-sized particles and condensing vapors in 90° bends of circular tubes. *Journal of Aerosol Science*, 150, [105618]. <https://doi.org/10.1016/j.jaerosci.2020.105618>

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

Nommeots-Nomm, A., Boetti, N. G., Salminen, T., Massera, J., Hokka, M., & Petit, L. (2018). Luminescence of Er<sup>3+</sup> doped oxyfluoride phosphate glasses and glass-ceramics. *Journal of Alloys and Compounds*, 751, 224-230. <https://doi.org/10.1016/j.jallcom.2018.04.101>

Nommeots-Nomm, A., Houaoui, A., Pradeepan Packiyannathar, A., Chen, X., Hokka, M., Hill, R., ... Massera, J. (2020). Phosphate/oxyfluorophosphate glass crystallization and its impact on dissolution and cytotoxicity. *Materials Science and Engineering C*, 117, [111269]. <https://doi.org/10.1016/j.msec.2020.111269>

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

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

Motlagh, H. D. K., Lotfi, F., Taghirad, H. D., & Germi, S. B. (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* (pp. 120-124). IEEE. <https://doi.org/10.1109/ICRoM48714.2019.9071826>

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. <https://doi.org/10.1115/DETC2013-13708>

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

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

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.

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)*

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

Mendes, M. R., Subramaniyam, N. P., & 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, pp. 1092-1095). IEEE COMPUTER SOCIETY PRESS. <https://doi.org/10.1109/NER.2015.7146818>

Medyna, G., Coatanea, E., & Millet, D. (2011). Evaluation of parts of a boat cabin based on exergy - Focusing on environmental and economic assessments. In *ASME 2011 International Mechanical Engineering Congress and Exposition, IMECE 2011* (PARTS A AND B ed., Vol. 4, pp. 1083-1092). AMER SOC MECHANICAL ENGINEERS.

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

Mashayekhi, M., Winchester, L., Laurila, M-M., Mäntysalo, M., Ogier, S., Terés, L., & Carrabina, J. (2017). Chip-by-chip configurable interconnection using digital printing techniques. *Journal of Micromechanics and Microengineering*, 27(4), [045009]. <https://doi.org/10.1088/1361-6439/aa5ef3>

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

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

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*, [106054]. <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*, 53(1), 20-27. <https://doi.org/10.23998/rm.76261>
- Malas, A., Das, C. K., Das, A., & Heinrich, G. (2012). Development of expanded graphite filled natural rubber vulcanizates in presence and absence of carbon black: Mechanical, thermal and morphological properties. *Materials and Design*, 39, 410-417. <https://doi.org/10.1016/j.matdes.2012.03.007>
- Mäkinen, J., Fränti, K., Korhonen, M., Fillion, J., & Heinisuo, M. (2016). End-plate connections in Bi-axial bending - Measurements. In F. M. 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, pp. 275-280). (Key Engineering Materials; Vol. 710). Trans Tech Publications Ltd. <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. <https://doi.org/10.1109/MESA.2018.8449188>
- Mäkelä, J. M., Haapanen, J., Aromaa, M., Teisala, H., Tuominen, M., Stepien, M., ... Kuusipalo, J. (2015). Roll-to-roll coating by liquid flame spray nanoparticle deposition. In *Materials Research Society Symposium Proceedings* (Vol. 1747, pp. 37-42). MATERIALS RESEARCH SOCIETY. <https://doi.org/10.1557/opl.2015.530>
- 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. <https://doi.org/10.1109/MESA.2018.8449183>
- Magliulo, M., Mallardi, A., Mulla, M. Y., Cotrone, S., Pistillo, B. R., Favia, P., ... Torsi, L. (2013). Electrolyte-gated organic field-effect transistor sensors based on supported biotinylated phospholipid bilayer. *Advanced Materials*, 25(14), 2090-2094. <https://doi.org/10.1002/adma.201203587>
- Mäenpää, P., Aref, M. M., & 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* (pp. 398-403). (IEEE International Conference on Cybernetics and Intelligent Systems). IEEE. <https://doi.org/10.1109/CIS-RAM47153.2019.9095822>
- Luna, E., Wu, M., Hanke, M., Puustinen, J., Guina, M., & Trampert, A. (2016). Spontaneous formation of three-dimensionally ordered Bi-rich nanostructures within GaAs<sub>1-x</sub>Bi<sub>x</sub>/GaAs quantum wells. *Nanotechnology*, 27(32), [325603]. <https://doi.org/10.1088/0957-4484/27/32/325603>
- Lorimer, G. W., Dicken, R., Peura, P., Pilkington, R., Younes, C. M., Allen, G. C., & Holt, M. J. (1996). The effect of phosphorous and arsenic on the fracture behaviour of a 2,25% Cr-1% Mo Steel. *Materials Science Forum*, 207-209(PART 2), 645-648.
- Lisjak, D., Lintunen, P., Hujanen, A., Varis, T., Bolelli, G., Lusvarghi, L., ... Drogenik, M. (2011). Hexaferrite/polyethylene Composite coatings prepared with flame spraying. *Materials Letters*, 65(3), 534-536. <https://doi.org/10.1016/j.matlet.2010.10.076>
- Linko, V., Leppiniemi, J., Paasonen, S. T., Hytönen, V. P., & Jussi Toppari, J. (2011). Defined-size DNA triple crossover construct for molecular electronics: Modification, positioning and conductance properties. *Nanotechnology*, 22(27), [275610]. <https://doi.org/10.1088/0957-4484/22/27/275610>
- 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>
- Linjama, M. (2019). Variable speed drive with hydraulic boost. *International Journal of Fluid Power*, 20(1), 99-123. <https://doi.org/10.13052/ijfp1439-9776.2014>
- Lindroos, M., Apostol, M., Kuokkala, V. T., Laukkanen, A., Valtonen, K., Holmberg, K., & Oja, O. (2015). Experimental study on the behavior of wear resistant steels under high velocity single particle impacts. *International Journal of Impact Engineering*, 78, 114-127. <https://doi.org/10.1016/j.ijimpeng.2014.12.002>
- Lindroos, M., Apostol, M., Heino, V., Valtonen, K., Laukkanen, A., Holmberg, K., & Kuokkala, V. T. (2015). The deformation, strain hardening, and wear behavior of chromium-alloyed hadfield steel in abrasive and impact conditions. *Tribology Letters*, 57(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*, 125, 68-76. <https://doi.org/10.1016/j.ijsolstr.2017.07.015>
- Lindgren, M., Santa-aho, S., & Vippola, M. (2016). Barkhausen noise response of three different welded duplex stainless steels. *Insight*, 58(9), 480-486. <https://doi.org/10.1784/insi.2016.58.9.480>
- Liimatainen, V., Sariola, V., & Zhou, Q. (2013). Controlling liquid spreading using microfabricated undercut edges. *Advanced Materials*, 25(16), 2275-2278. <https://doi.org/10.1002/adma.201204696>
- Liimatainen, H., van Vliet, O., & Aplyn, D. (2019). The potential of electric trucks – An international commodity-level analysis. *Applied Energy*, 236, 804-814. <https://doi.org/10.1016/j.apenergy.2018.12.017>
- Liikanen, H., Aref, M. M., & 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)* (pp. 368-373). (IEEE International Conference on Cybernetics and Intelligent Systems). IEEE. <https://doi.org/10.1109/CIS-RAM47153.2019.9095821>
- Lemougna, P. N., Yliniemi, J., Ismailov, A., Levänen, E., Tanskanen, P., Kinnunen, P., ... Illikainen, M. (Accepted/In press). Spodumene tailings for porcelain and structural materials: Effect of temperature (1050–1200°C) on the sintering and properties. *Minerals Engineering*, [105843]. <https://doi.org/10.1016/j.mineng.2019.105843>
- Lehmusto, J., Olin, M., Viljanen, J., Kalliokoski, J., Mylläri, F., Toivonen, J., ... 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>
- Le, T., Lin, Z., Wong, C. P., & Tentzeris, M. M. (2015). Smart Skins: Could they be the ultimate sensing tool? Today's industry and personal medical care both strongly demand accurate, reliable, robust, low-cost. *IEEE Nanotechnology Magazine*, 9(2), 4-10. [7080864]. <https://doi.org/10.1109/MNANO.2015.2410474>
- Layek, R. K., Uddin, M. E., Kim, N. H., Tak Lau, A. K., & Lee, J. H. (2017). Noncovalent functionalization of reduced graphene oxide with pluronic F127 and its nanocomposites with gum arabic. *Composites Part B: Engineering*, 128, 155-163. <https://doi.org/10.1016/j.compositesb.2017.07.010>
- Laurila, M. M., 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*, 27(9), [095005]. <https://doi.org/10.1088/1361-6439/aa7a71>

- Lauri, M., Pajarinen, J., Peters, J., & Frintrop, S. (2020). Multi-sensor next-best-view planning as matroid-constrained submodular maximization. *IEEE Robotics and Automation Letters*, 5(4), 5323-5330. <https://doi.org/10.1109/LRA.2020.3007445>
- Lappalainen, K., Wang, G. C., & Kleissl, J. (2020). Estimation of the largest expected photovoltaic power ramp rates. *Applied Energy*, 278, [115636]. <https://doi.org/10.1016/j.apenergy.2020.115636>
- Lanz, M., & Tuokko, R. (2017). Concepts, methods and tools for individualized production. *PRODUCTION ENGINEERING*, 11(2), 205-212. <https://doi.org/10.1007/s11740-017-0728-5>
- 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*
- Lahtinen, K., Lahti, J., Johansson, P., Seppänen, T., & Cameron, D. C. (2013). Improving the effect of a nanoscale barrier coating on BOPP film properties by surface pretreatments. In *14th European PLACE Conference 2013* (Vol. 1, pp. 469-493). TAPPI Press.
- Lahti, J., Johansson, P., Lahtinen, K., Cameron, D. C., & 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, pp. 1039-1061). TAPPI Press.
- Lahti, J. (2016). Nanoscale barrier coating on BOPP packaging film by ALD. In *TAPPI PLACE Conference 2016: Exploring New Frontiers* (pp. 493-505). TAPPI Press.
- Lahti, J., Tuominen, M., Penttinen, T., Räsänen, J. P., & 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)
- 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* (pp. 237-248). TAPPI Press.
- 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.
- Lahti, J. (2019). Nanocellulose and Polylactic Acid Based Multilayer Coatings for Barrier Applications. In *17th Biennial TAPPI European PLACE Conference 2019* (pp. 446-455). TAPPI Press.
- Lahti, J. (2019). Market implementation of active and intelligent packaging-opportunities from a socio-economic perspective. In *17th Biennial TAPPI European PLACE Conference 2019* (pp. 419-427). TAPPI Press.
- Laakkonen, P., & Quadrat, A. (2017). A fractional representation approach to the robust regulation problem for SISO systems. *Systems and Control Letters*, 103, 32-37. <https://doi.org/10.1016/j.sysconle.2017.02.006>
- Kuzmin, M., Laukkanen, P., Mäkelä, J., Yasir, M., Tuominen, M., Dahl, J., ... Guina, M. (2016). Toward the Atomically Abrupt Interfaces of SiO<sub>x</sub>/Semiconductor Junctions. *Advanced Materials Interfaces*, 3(11), [1500510]. <https://doi.org/10.1002/admi.201500510>
- 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.
- Kurnitski, J., Saari, A., Kalamees, T., Vuolle, M., Niemelä, J., & Tark, T. (2011). Cost optimal and nearly zero (nZEB) energy performance calculations for residential buildings with REHVA definition for nZEB national implementation. *Energy and Buildings*, 43(11), 3279-3288. <https://doi.org/10.1016/j.enbuild.2011.08.033>

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

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*. <https://doi.org/10.1109/MARSS.2017.8001929>

Kreutzer, J., Viehrig, M., Pölonen, R. P., 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>

Kravchenko, A., Shevchenko, A., Ovchinnikov, V., Priimagi, A., & Kaivola, M. (2011). Optical interference lithography using azobenzene-functionalized polymers for micro-and nanopatterning of silicon. *Advanced Materials*, *23*(36), 4174-4177. <https://doi.org/10.1002/adma.201101888>

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

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

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

Koivumäki, J., & Mattila, J. (2017). Adaptive and nonlinear control of discharge pressure for variable displacement axial piston pumps. *Journal of Dynamic Systems, Measurement and Control: Transactions of the ASME*, *139*(10), [101008]. <https://doi.org/10.1115/1.4036537>

Koivuluoto, H., Milanti, A., Bolelli, G., Latokartano, J., Marra, F., Pulci, G., ... Vuoristo, P. (2017). Structures and properties of laser-assisted cold-sprayed aluminum coatings. In *THERMEC 2016* (Vol. 879, pp. 984-989). (Materials Science Forum; Vol. 879). Trans Tech Publications Ltd. <https://doi.org/10.4028/www.scientific.net/MSF.879.984>

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)* (pp. 509-513). IEEE. <https://doi.org/10.1109/ROBOSOFT.2019.8722741>

Kivioja, H., & Vinha, J. (2020). Hot-box measurements to investigate the internal convection of highly insulated loose-fill insulation roof structures. *Energy and Buildings*, *216*, [109934]. <https://doi.org/10.1016/j.enbuild.2020.109934>

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* (pp. 208-216). (Mechanisms and Machine Science; Vol. 49). Springer International Publishing. [https://doi.org/10.1007/978-3-319-61276-8\\_24](https://doi.org/10.1007/978-3-319-61276-8_24)

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

Kanerva, U., Karhu, M., Lagerbom, J., Kronlöf, A., Honkanen, M., Turunen, E., & Laitinen, T. (2016). Chemical synthesis of WC-Co from water-soluble precursors: The effect of carbon and cobalt additions to WC synthesis. *International Journal of Refractory Metals and Hard Materials*, 56, 69-75. <https://doi.org/10.1016/j.ijrmhm.2015.11.014>

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

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

Juoksukangas, J., Nurmi, V., Hintikka, J., Vippola, M., Lehtovaara, A., Mäntylä, A., ... Frondelius, T. (2019). Characterization of cracks formed in large flat-on-flat fretting contact. *International Journal of Fatigue*, 124, 361-370. <https://doi.org/10.1016/j.ijfatigue.2019.03.004>

Juoksukangas, J., Hintikka, J., Lehtovaara, A., Mäntylä, A., Vaara, J., & Frondelius, T. (2020). Avoiding the high friction peak in fretting contact. *Rakenteiden Mekaniikka*, 53(1), 12-19. <https://doi.org/10.23998/rm.76266>

Jowett, G. M., Norman, M. D. A., Yu, T. T. L., Rosell Arévalo, P., Hoogland, D., Lust, S. T., ... Gentleman, E. (2020). ILC1 drive intestinal epithelial and matrix remodelling. *Nature Materials*. <https://doi.org/10.1038/s41563-020-0783-8>

Javaheri, V., Nyyssönen, T., Grande, B., & Porter, D. (2018). Computational design of a novel medium-carbon, low-alloy steel microalloyed with niobium. *Journal of Materials Engineering and Performance*, 27(6), 2978-2992. <https://doi.org/10.1007/s11665-018-3376-9>

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>

Järvinen, H., Isakov, M., Nyyssönen, T., Järvenpää, M., & Peura, P. (2016). The effect of initial microstructure on the final properties of press hardened 22MnB5 steels. *Materials Science and Engineering A: Structural Materials Properties Microstructure and Processing*, 676, 109-120. <https://doi.org/10.1016/j.msea.2016.08.096>

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

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

Itävuori, P., Hulthén, E., Yahyaie, M., & Vilkkö, M. (2019). Mass balance control of crushing circuits. *Minerals Engineering*, 135, 37-47. <https://doi.org/10.1016/j.mineng.2019.02.033>

Isotahdon, E., Huttunen-Saarivirta, E., Heinonen, S., Kuokkala, V. T., & Paju, M. (2015). Corrosion mechanisms of sintered Nd-Fe-B magnets in the presence of water as vapour, pressurised vapour and liquid. *Journal of Alloys and Compounds*, 626, 349-359. <https://doi.org/10.1016/j.jallcom.2014.12.048>

Isotahdon, E., Huttunen-Saarivirta, E., & Kuokkala, V. (2017). Characterization of the microstructure and corrosion performance of Ce-alloyed Nd-Fe-B magnets. *Journal of Alloys and Compounds*, 692, 190-197. <https://doi.org/10.1016/j.jallcom.2016.09.058>

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

Huttunen-Saarivirta, E., Isotahdon, E., Metsäjoki, J., Salminen, T., Ronkainen, H., & Carpén, L. (2019). Behaviour of leaded tin bronze in simulated seawater in the absence and presence of tribological contact with alumina counterbody: Corrosion, wear and tribocorrosion. *Tribology International*, 129, 257-271. <https://doi.org/10.1016/j.triboint.2018.08.021>

Huttunen-Saarivirta, E., Kilpi, L., Pasanen, A. T., Salminen, T., & Ronkainen, H. (2020). Tribocorrosion behaviour of tin bronze CuSn12 under a sliding motion in NaCl containing environment: Contact to inert vs. reactive counterbody. *Tribology International*, 151, [106389]. <https://doi.org/10.1016/j.triboint.2020.106389>

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

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

Holopainen, S. (2020). Käyräviivaiset koordinaatitot kontinuumimekaniikassa. *Rakenteiden Mekaniikka*, 53(2), 53-66. <https://doi.org/10.23998/rm.83338>

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

Hokka, M., Östman, K., Rämö, J., & Kuokkala, V. T. (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, pp. 227-233). (Conference Proceedings of the Society for Experimental Mechanics Series). Springer. [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., Tkalich, D., Fourmeau, M., Kane, A., Hoang, N. H., ... Kuokkala, V-T. (2016). Effects of strain rate and confining pressure on the compressive behavior of Kuru granite. *International Journal of Impact Engineering*, 91, 183-193. <https://doi.org/10.1016/j.ijimpeng.2016.01.010>

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, pp. 51-59). Springer New York LLC. [https://doi.org/10.1007/978-3-319-21455-9\\_6](https://doi.org/10.1007/978-3-319-21455-9_6)

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

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

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

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

- Hintikka, J., Mäntylä, A., Vaara, J., Frondelius, T., Juoksukangas, J., & Lehtovaara, A. (2019). Running-in in fretting, transition from near-stable friction regime to gross sliding. *Tribology International*, *143*, [106073]. <https://doi.org/10.1016/j.triboint.2019.106073>
- Hilliaho, K., Köliö, A., Pakkala, T., Lahdensivu, J., & Vinha, J. (2016). Effects of added glazing on Balcony indoor temperatures: Field measurements. *Energy and Buildings*, *128*, 458-472. <https://doi.org/10.1016/j.enbuild.2016.07.025>
- Heininen, A., Aaltonen, J., & Koskinen, K. T. (2017). Simulating the Drag Coefficient of a Spherical Autonomous Underwater Vehicle. In J. Aaltonen, R. Virkkunen, K. T. Koskinen, & R. Kuivanen (Eds.), *Proceedings of the 2nd Annual SMACC Research Seminar 2017* (Vol. 2, pp. 53-56). [14] Tampere: Tampere University of Technology.
- 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* (pp. 115-118). (Key Engineering Materials; Vol. 713). Trans Tech Publications Ltd. <https://doi.org/10.4028/www.scientific.net/KEM.713.115>
- Hakkarainen, T. V., Schramm, A., Mäkelä, J., Laukkanen, P., & Guina, M. (2015). Lithography-free oxide patterns as templates for self-catalyzed growth of highly uniform GaAs nanowires on Si(111). *Nanotechnology*, *26*(27), [275301]. <https://doi.org/10.1088/0957-4484/26/27/275301>
- Haiko, O., Miettunen, I., Porter, D., Ojala, N., Ratia, V., Heino, V., & Kemppainen, A. (2017). Effect of finish rolling and quench stop temperatures on impact-abrasive wear resistance of 0.35 % carbon direct-quenched steel. *Tribologia*, *35*(1-2), 5-21.
- Haiko, O., Heino, V., Porter, D. A., Uusitalo, J., & Kömi, J. (2019). Effect of microstructure on the abrasive wear resistance of steels with hardness 450 HV. *Tribologia*, *36*(1), 54-57. <https://doi.org/10.30678/FJT.82443>
- Haaparanta, A-M., Uppstu, P., Hannula, M., Ellä, V., Rosling, A., & Kellomäki, M. (2015). Improved dimensional stability with bioactive glass fibre skeleton in poly(lactide-co-glycolide) porous scaffolds for tissue engineering. *Materials Science and Engineering C: Materials for Biological Applications*, *56*, 457-466. [5584]. <https://doi.org/10.1016/j.msec.2015.07.013>
- Gusrialdi, A., Xu, Y., Qu, Z., & Simaan, M. A. (2020). Resilient Cooperative Voltage Control for Distribution Network with High Penetration Distributed Energy Resources. In *European Control Conference 2020, ECC 2020* (pp. 1533-1539). IEEE.
- Gordon, T. R., Paik, T., Klein, D. R., Naik, G. V., Caglayan, H., Boltasseva, A., & Murray, C. B. (2013). Shape-dependent plasmonic response and directed self-assembly in a new semiconductor building block, indium-doped cadmium oxide (ICO). *Nano Letters*, *13*(6), 2857-2863. <https://doi.org/10.1021/nl4012003>
- 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* (pp. 855-860). [8442474] IEEE. <https://doi.org/10.1109/MED.2018.8442474>
- Gashti, E. H. N., Malaska, M., & Kujala, K. (2015). Analysis of thermo-active pile structures and their performance under groundwater flow conditions. *Energy and Buildings*, *105*, 1-8. <https://doi.org/10.1016/j.enbuild.2015.07.026>
- 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>
- Fedorik, F., Malaska, M., Hannila, R., & Haapala, A. (2015). Improving the thermal performance of concrete-sandwich envelopes in relation to the moisture behaviour of building structures in boreal conditions. *Energy and Buildings*, *107*, 226-233. <https://doi.org/10.1016/j.enbuild.2015.08.020>

Far, M. F., 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* (pp. 1510-1516). IEEE. <https://doi.org/10.1109/ICELMACH.2018.8506693>

Far, M. F., 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* (pp. 2243-2249). IEEE. <https://doi.org/10.1109/ICELMACH.2018.8506758>

Fafarman, A. T., Hong, S. H., Caglayan, H., Ye, X., Diroll, B. T., Paik, T., ... Kagan, C. R. (2013). Chemically tailored dielectric-to-metal transition for the design of metamaterials from nanoimprinted colloidal nanocrystals. *Nano Letters*, *13* (2), 350-357. <https://doi.org/10.1021/nl303161d>

Evans, D. M., Holstad, T. S., Mosberg, A. B., Småbråten, D. R., Vullum, P. E., Dadlani, A. L., ... 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>

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] Charlotte, North Carolina: ASME. <https://doi.org/10.1115/DETC2016-59886>

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

Di Vito, D., Mosallaei, M., Vahed, B. K., 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* (pp. 755-763). (Lecture Notes in Mechanical Engineering). Springer. [https://doi.org/10.1007/978-3-030-41057-5\\_61](https://doi.org/10.1007/978-3-030-41057-5_61)

Debnath, S. C., Das, A., Basu, D., & Heinrich, G. (2013). Naturally occurring amino acids: A suitable substitute of N-NI-di-phenyl guanidine (DPG) in silica tyre formulation? *KGK: KAUTSCHUK GUMMI KUNSTSTOFFE*, *66*(1-2), 25-31.

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

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

Colace, L., Santoni, F., & Assanto, G. (2013). A near-infrared optoelectronic approach to detection of road conditions. *Optics and Lasers in Engineering*, *51*(5), 633-636. <https://doi.org/10.1016/j.optlaseng.2013.01.003>

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

Coatanéa, E., Ritola, T., Tumer, I. Y., & 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, pp. 591-601). AMER SOC MECHANICAL ENGINEERS. <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 (pp. 173-182). AMER SOC MECHANICAL ENGINEERS. <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. <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. <https://doi.org/10.1115/DETC201885895>

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

Chronopoulos, A., Thorpe, S. D., Cortes, E., Lachowski, D., Rice, A. J., Mykuliak, V. V., ... del Río Hernández, A. E. (2020). Syndecan-4 tunes cell mechanics by activating the kindlin-integrin-RhoA pathway. *Nature Materials*. <https://doi.org/10.1038/s41563-019-0567-1>

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) <https://doi.org/10.1115/IMECE2011-63546>

Cheng, Y. C., Lu, H. C., Lee, X., Zeng, H., & Priimagi, A. (2019). Kirigami-Based Light-Induced Shape-Morphing and Locomotion. *Advanced Materials*, [1906233]. <https://doi.org/10.1002/adma.201906233>

Chang, B., Routa, I., Sariola, V., & Zhou, Q. (2011). Self-alignment of RFID dies on four-pad patterns with water droplet for sparse self-assembly. *Journal of Micromechanics and Microengineering*, *21*(9), [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*, *21*(1), [015016]. <https://doi.org/10.1088/0960-1317/21/1/015016>

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

Carfora, D., Gironimo, G. D., Esposito, G., Huhtala, K., Määttä, T., Mäkinen, H., ... Mozzillo, R. (2016). Multicriteria selection in concept design of a divertor remote maintenance port in the EU DEMO reactor using an AHP participative approach. *Fusion Engineering and Design*, *112*, 324-331. <https://doi.org/10.1016/j.fusengdes.2016.08.023>

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* (pp. 975-982). [6338748] <https://doi.org/10.1109/ITSC.2012.6338748>

Cao, X., Aref, M. M., & 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* (pp. 553-558). [9095773] (IEEE International Conference on Cybernetics and Intelligent Systems). IEEE. <https://doi.org/10.1109/CIS-RAM47153.2019.9095773>

Bourhis, K., Massera, J., Petit, L., Koponen, J., Fargues, A., Cardinal, T., ... 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*, *70*, 47-54.

<https://doi.org/10.1016/j.materresbull.2015.04.017>

Borah, D., Rasappa, S., Senthamarakannan, R., Holmes, J. D., & Morris, M. A. (2014). Graphoepitaxial Directed Self-Assembly of Polystyrene-Block-Polydimethylsiloxane Block Copolymer on Substrates Functionalized with Hexamethyldisilazane to Fabricate Nanoscale Silicon Patterns. *Advanced Materials Interfaces*, 1(3), [1300102]. <https://doi.org/10.1002/admi.201300102>

Borah, D., Rasappa, S., Kosmala, B., Holmes, J. D., & Morris, M. A. (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) <https://doi.org/10.1557/opl.2012.1224>

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

Boardman, A. D., Alberucci, A., Assanto, G., Grimalsky, V. V., Kibler, B., McNiff, J., ... Valagiannopoulos, C. A. (2017). Waves in hyperbolic and double negative metamaterials including rogues and solitons. *Nanotechnology*, 28(44), [444001]. <https://doi.org/10.1088/1361-6528/aa6792>

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

Belardini, A., Leahu, G., Petronijevic, E., Hakkarainen, T., Koivusalo, E., Piton, M. R., ... Sibilia, C. (2020). Circular dichroism in the second harmonic field evidenced by asymmetric Au coated GaAs nanowires. *Micromachines*, 11(2), 1-8. <https://doi.org/10.3390/mi11020225>

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

Barreca, D., Carraro, G., Gasparotto, A., Maccato, C., Warwick, M. E. A., Kaunisto, K., ... Mathur, S. (2015). Fe<sub>2</sub>O<sub>3</sub>-TiO<sub>2</sub> Nano-heterostructure Photoanodes for Highly Efficient Solar Water Oxidation. *Advanced Materials Interfaces*, 2(17). <https://doi.org/10.1002/admi.201500313>

Barreca, D., Carraro, G., Gasparotto, A., Maccato, C., Altantzis, T., Sada, C., ... Bals, S. (2017). Vapor Phase Fabrication of Nanoheterostructures Based on ZnO for Photoelectrochemical Water Splitting. *Advanced Materials Interfaces*, 4(18), [1700161]. <https://doi.org/10.1002/admi.201700161>

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

Backas, J., & Ghabcheloo, R. (2019). Nonlinear model predictive energy management of hydrostatic drive transmissions. *Proceedings of the Institution of Mechanical Engineers. Part I: Journal of Systems and Control Engineering*, 233(3), 335-347. <https://doi.org/10.1177/0959651818793454>

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

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

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, pp. 445-450). (Materials Science Forum; Vol. 762). <https://doi.org/10.4028/www.scientific.net/MSF.762.445>

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>

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

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