

**Effect of microstructure on the abrasive wear resistance of steels with hardness 450 HV**

Haiko, O., Heino, V., Porter, D. A., Uusitalo, J. & Kömi, J., 2019, In : Tribologia. 36, 1, p. 54-57 4 p.

Research output: Contribution to journal > Article > Scientific

**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**

Matikainen, V., Rubio Peregrina, S., Ojala, N., Koivuluoto, H., Schubert, J., Houdková & Vuoristo, P., 2019, In : Tribologia. 36, 1-2, p. 58-61 4 p.

Research output: Contribution to journal > Article > Scientific

**A comparison of five optical surface topography measurement methods**

Mettänen, M. & Hirn, U., 1 Jan 2015, In : TAPPI Journal. 14, 1, p. 27-38 12 p.

Research output: Contribution to journal > Article > Scientific > peer-review

**A comparison of relative displacement fields between numerical predictions and experimental results in fretting contact**

Juoksukangas, J., Lehtovaara, A. & Mäntylä, A., 1 Oct 2016, In : Proceedings of the institution of Mechanical Engineers Part J: Journal of Engineering Tribology. 230, 10, p. 1273-1287 15 p.

Research output: Contribution to journal > Article > Scientific > peer-review

**Adaptive and nonlinear control of discharge pressure for variable displacement axial piston pumps**

Koivumäki, J. & Mattila, J., 1 Oct 2017, In : Journal of Dynamic Systems, Measurement and Control: Transactions of the ASME. 139, 10, 101008.

Research output: Contribution to journal > Article > Scientific > peer-review

**A fractional representation approach to the robust regulation problem for SISO systems**

Laakkonen, P. & Quadrat, A., 1 May 2017, In : Systems and Control Letters. 103, p. 32-37 6 p.

Research output: Contribution to journal > Article > Scientific > peer-review

**Analysing traffic fluency from bus data**

Syrjärinne, P., Nummenmaa, J., Thanisch, P., Kerminen, R. & Hakulinen, E., 1 Aug 2015, In : IET Intelligent Transport Systems. 9, 6, p. 566-572 7 p.

Research output: Contribution to journal > Article > Scientific > peer-review

**Analysis of common rail pressure signal of dual-fuel large industrial engine for identification of injection duration of pilot diesel injectors**

Krogerus, T., Hyvönen, M. & Huhtala, K., Mar 2018, In : Fuel. 216, p. 1-9

Research output: Contribution to journal > Article > Scientific > peer-review

**Analysis of thermo-active pile structures and their performance under groundwater flow conditions**

Gashti, E. H. N., Malaska, M. & Kujala, K., 11 Aug 2015, In : Energy and Buildings. 105, p. 1-8 8 p.

Research output: Contribution to journal > Article > Scientific > peer-review

**An Artificial Nocturnal Flower via Humidity-Gated Photoactuation in Liquid Crystal Networks**

Wani, O. M., Verpaalen, R., Zeng, H., Priimagi, A. & Schenning, A. P. H. J., Jan 2019, In : Advanced Materials. 31, 2, 1805985.

Research output: Contribution to journal > Article > Scientific > peer-review

**A near-infrared optoelectronic approach to detection of road conditions**

Colace, L., Santoni, F. & Assanto, G., May 2013, In : Optics and Lasers in Engineering. 51, 5, p. 633-636 4 p.

Research output: Contribution to journal > Article > Scientific > peer-review

**An exploratory study on strengthening and thermal stability of magnetron sputtered W nanoparticles at the interface of Cu/Ni multilayer films**

Schoeppner, R. L., Mohanty, G., Polyakov, M. N., Petho, L., Maeder, X. & Michler, J., 2020, In : Materials and Design. 195, 9 p., 108907.

Research output: Contribution to journal > Article > Scientific > peer-review

**Assessing population vulnerability towards summer energy poverty: Case studies of Madrid and London**

Sanchez-Guevara, C., Núñez Peiró, M., Taylor, J., Mavrogianni, A. & Neila González, J., 1 May 2019, In : Energy and Buildings. 190, p. 132-143 12 p.

Research output: Contribution to journal › Article › Scientific › peer-review

**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)**

Saarimaa, V., Fuertes, N., Persson, D., Zavalis, T., Kaleva, A., Nikkanen, J-P., Levänen, E. & Heydari, G., 2020, In : Materials and Corrosion. 10 p.

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**Asymptotics and approximation of large systems of ordinary differential equations**

Paunonen, L. & Seifert, D., 2020, In : Systems and Control Letters. 140, 9 p., 104703.

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**A TOpti simulation for finding fuel saving by optimising propulsion control and power management**

Jaurola, M., Hedin, A., Tikkanen, S. & Huhtala, K., 2019, In : Journal of Marine Science and Technology (Japan).

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**Avoiding the high friction peak in fretting contact**

Juoksukangas, J., Hintikka, J., Lehtovaara, A., Mäntylä, A., Vaara, J. & Frondelius, T., 2020, In : Rakenteiden Mekaniikka. 53, 1, p. 12-19 8 p.

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**Barkhausen noise response of three different welded duplex stainless steels**

Lindgren, M., Santa-aho, S. & Vippola, M., 1 Sep 2016, In : Insight. 58, 9, p. 480-486 7 p.

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**Behaviour of leaded tin bronze in simulated seawater in the absence and presence of tribological contact with alumina counterbody: Corrosion, wear and tribocorrosion**

Huttunen-Saarivirta, E., Isotahdon, E., Metsäjoki, J., Salminen, T., Ronkainen, H. & Carpén, L., 2019, In : Tribology International. 129, p. 257-271 15 p.

Research output: Contribution to journal › Article › Scientific › peer-review

**Bioactive glass ions induce efficient osteogenic differentiation of human adipose stem cells encapsulated in gellan gum and collagen type I hydrogels**

Vuornos, K., Ojansivu, M., Koivisto, J. T., Häkkänen, H., Belay, B., Montonen, T., Huhtala, H., Kääriäinen, M., Hupa, L., Kellomäki, M., Hyttinen, J., Ihalainen, J. A. & Miettinen, S., 1 Jun 2019, In : Materials Science and Engineering C. 99, p. 905-918 14 p.

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**CFD modeling the diffusional losses of nanocluster-sized particles and condensing vapors in 90° bends of circular tubes**

Olin, M. & Dal Maso, M., 2020, In : Journal of Aerosol Science. 150, 10 p., 105618.

Research output: Contribution to journal › Article › Scientific › peer-review

**Characterization of cracks formed in large flat-on-flat fretting contact**

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Research output: Contribution to journal › Article › Scientific › peer-review

**Characterization of the microstructure and corrosion performance of Ce-alloyed Nd-Fe-B magnets**

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Research output: Contribution to journal › Article › Scientific › peer-review

**Chemically tailored dielectric-to-metal transition for the design of metamaterials from nanoimprinted colloidal nanocrystals**  
Fafarman, A. T., Hong, S. H., Caglayan, H., Ye, X., Diroll, B. T., Paik, T., Engheta, N., Murray, C. B. & Kagan, C. R., 13 Feb 2013, In : Nano Letters. 13, 2, p. 350-357 8 p.

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**Chemical synthesis of WC-Co from water-soluble precursors: The effect of carbon and cobalt additions to WC synthesis**  
Kanerva, U., Karhu, M., Lagerbom, J., Kronlöf, A., Honkanen, M., Turunen, E. & Laitinen, T., 1 Apr 2016, In : International Journal of Refractory Metals and Hard Materials. 56, p. 69-75 7 p.

Research output: Contribution to journal > Article > Scientific > peer-review

**Chip-by-chip configurable interconnection using digital printing techniques**

Mashayekhi, M., Winchester, L., Laurila, M-M., Mäntysalo, M., Ogier, S., Terés, L. & Carrabina, J., 6 Mar 2017, In : Journal of Micromechanics and Microengineering. 27, 4, 045009.

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**Circular dichroism in the second harmonic field evidenced by asymmetric Au coated GaAs nanowires**

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**Co-electrospun blends of PU and PEG as potential biocompatible scaffolds for small-diameter vascular tissue engineering**

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**Comparative environmental impacts of additive and subtractive manufacturing technologies**

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**Computational design of a novel medium-carbon, low-alloy steel microalloyed with niobium**

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**Concepts, methods and tools for individualized production**

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**Conductivity control via minimally invasive anti-Frenkel defects in a functional oxide**

Evans, D. M., Holstad, T. S., Mosberg, A. B., Småbråten, D. R., Vullum, P. E., Dadlani, A. L., Shapovalov, K., Yan, Z., Bourret, E., Gao, D., Akola, J., Torgersen, J., van Helvoort, A. T. J., Selbach, S. M. & Meier, D., 2020, In : Nature Materials. 7 p.

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**Conjugated Heat Transfer Simulation of a Fin-and-Tube Heat Exchanger**

Väläkangas, T. & Karvinen, R., 2018, In : Heat Transfer Engineering. 39, 13-14, p. 1192-1200 9 p.

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**Consideration of energy consumption, energy costs, and space occupancy in Finnish daycare centres and school buildings**

Sekki, T., Andelin, M., Airaksinen, M. & Saari, A., 1 Oct 2016, In : Energy and Buildings. 129, p. 199-206 8 p.

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**Controlling liquid spreading using microfabricated undercut edges**

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**Corrosion mechanisms of sintered Nd-Fe-B magnets in the presence of water as vapour, pressurised vapour and liquid**  
Isotahdon, E., Huttunen-Saarivirta, E., Heinonen, S., Kuokkala, V. T. & Paju, M., 25 Mar 2015, In : Journal of Alloys and Compounds. 626, p. 349-359 11 p.

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**Cost optimal and nearly zero (nZEB) energy performance calculations for residential buildings with REHVA definition for nZEB national implementation**

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**Defined-size DNA triple crossover construct for molecular electronics: Modification, positioning and conductance properties**

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**Democratizing composites manufacturing -inexpensive tooling empowers new players**

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**Deposition of dry particles on a fin-and-tube heat exchanger by a coupled soft-sphere DEM and CFD**

Välkangas, T., Hærvig, J., Kuuluvainen, H., Dal Maso, M., Peltonen, P. & Vuorinen, V., 2019, In : International Journal of Heat and Mass Transfer. 19 p., 119046.

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**Detection beyond Debye's length with an electrolyte-gated organic field-effect transistor**

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**Detection of gaseous species during KCl-induced high-temperature corrosion by the means of CPFAAS and CI-API-TOF**

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**Development of expanded graphite filled natural rubber vulcanizates in presence and absence of carbon black: Mechanical, thermal and morphological properties**

Malas, A., Das, C. K., Das, A. & Heinrich, G., 2012, In : Materials and Design. 39, p. 410-417 8 p.

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**Differential basal-to-apical accessibility of lamin A/C epitopes in the nuclear lamina regulated by changes in cytoskeletal tension**

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**Digital hydraulic multi-pressure actuator – the concept, simulation study and first experimental results**

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**Dissolution, bioactivity and osteogenic properties of composites based on polymer and silicate or borosilicate bioactive glass**

Houaoui, A., Lyyra, I., Agniel, R., Pauthe, E., Massera, J. & Boissière, M., 2019, In : Materials Science and Engineering C. 107, 110340.

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#### **Divertor remote handling for DEMO: Concept design and preliminary FMECA studies**

Carfora, D., Di Gironimo, G., Järvenpää, J., Huhtala, K., Määttä, T. & Siuko, M., 9 Jul 2015, In : Fusion Engineering and Design. 98-99, p. 1437-1441 5 p.

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#### **Do properties of bioactive glasses exhibit mixed alkali behavior?**

Wang, X., Fagerlund, S., Massera, J., Södergård, B. & Hupa, L., 2017, In : Journal of Materials Science. 52, 15, p. 8986–8997 12 p.

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#### **Dynamic speckle analysis with smoothed intensity-based activity maps**

Stoykova, E., Berberova, N., Kim, Y., Nazarova, D., Ivanov, B., Gotchev, A., Hong, J. & Kang, H., 1 Jun 2017, In : Optics and Lasers in Engineering. 93, p. 55-65 11 p.

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#### **Effect of energy measures on the values of energy efficiency indicators in Finnish daycare and school buildings**

Sekki, T., Airaksinen, M. & Saari, A., 15 Mar 2017, In : Energy and Buildings. 139, p. 124-132 9 p.

Research output: Contribution to journal › Article › Scientific › peer-review

#### **Effect of finish rolling and quench stop temperatures on impact-abrasive wear resistance of 0.35 % carbon direct-quenched steel**

Haiko, O., Miettunen, I., Porter, D., Ojala, N., Ratia, V., Heino, V. & Kemppainen, A., 2017, In : Tribologia. 35, 1-2, p. 5-21 17 p.

Research output: Contribution to journal › Article › Scientific › peer-review

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#### **Effects of added glazing on Balcony indoor temperatures: Field measurements**

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#### **Effects of strain rate and confining pressure on the compressive behavior of Kuru granite**

Hokka, M., Black, J., Tklich, D., Fourmeau, M., Kane, A., Hoang, N. H., Li, C. C., Chen, W. W. & Kuokkala, V-T., 1 May 2016, In : International Journal of Impact Engineering. 91, p. 183-193 11 p.

Research output: Contribution to journal › Article › Scientific › peer-review

#### **Electrolyte-gated organic field-effect transistor sensors based on supported biotinylated phospholipid bilayer**

Magliulo, M., Mallardi, A., Mulla, M. Y., Cotrone, S., Pistillo, B. R., Favia, P., Vikholm-Lundin, I., Palazzo, G. & Torsi, L., 11 Apr 2013, In : Advanced Materials. 25, 14, p. 2090-2094 5 p.

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#### **Elevated and cryogenic temperature micropillar compression of magnesium–niobium multilayer films**

Thomas, K., Mohanty, G., Wehrs, J., Taylor, A. A., Pathak, S., Casari, D., Schwiedrzik, J., Mara, N., Spolenak, R. & Michler, J., 15 Aug 2019, In : Journal of Materials Science. 54, 15, p. 10884-10901 18 p.

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#### **Employing Knowledge on Causal Relationship to Assist Multidisciplinary Design Optimization**

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**Enhanced multiaxial fatigue criterion that considers stress gradient effects**

Ottosen, N. S., Ristinmaa, M. & Kouhia, R., 1 Nov 2018, In : International Journal of Fatigue. 116, p. 128-139 12 p.  
Research output: Contribution to journal > Article > Scientific > peer-review

**Enhanced resonant nonlinear absorption and optical limiting in Er<sup>3+</sup> ions doped multicomponent tellurite glasses**

Sajna, M. S., Perumbilavil, S., Prakashan, V. P., Sanu, M. S., Joseph, C., Biju, P. R. & Unnikrishnan, N. V., 1 Aug 2018, In : Materials Research Bulletin. 104, p. 227-235 9 p.  
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**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**

Bourhis, K., Massera, J., Petit, L., Koponen, J., Fargues, A., Cardinal, T., Hupa, L., Hupa, M., Dussauze, M., Rodriguez, V. & Ferraris, M., 1 Oct 2015, In : Materials Research Bulletin. 70, p. 47-54 8 p.  
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**Erosive-abrasive wear behavior of carbide-free bainitic and boron steels compared in simulated field conditions**

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**Estimation of the largest expected photovoltaic power ramp rates**

Lappalainen, K., Wang, G. C. & Kleissl, J., 15 Nov 2020, In : Applied Energy. 278, 13 p., 115636.  
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**Evaluating retrofit options in a historical city center: Relevance of bio-based insulation and the need to consider complex urban form in decision-making**

Claude, S., Ginetet, S., Bonhomme, M., Escadeillas, G., Taylor, J., Marincioni, V., Korolija, I. & Altamirano, H., 1 Jan 2019, In : Energy and Buildings. 182, p. 196-204 9 p.  
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**Experimental and numerical investigation of fretting fatigue behavior in bolted joints**

Juoksukangas, J., Lehtovaara, A. & Mäntylä, A., 1 Nov 2016, In : Tribology International. 103, p. 440-448 9 p.  
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**Experimental and numerical study of wall layer development in a tribocharged fluidized bed**

Sippola, P., Kolehmainen, J., Ozel, A., Liu, X., Saarenrinne, P. & Sundaresan, S., 25 Aug 2018, In : Journal of Fluid Mechanics. 849, p. 860-884 25 p.  
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**Experimental study on the behavior of wear resistant steels under high velocity single particle impacts**

Lindroos, M., Apostol, M., Kuokkala, V. T., Laukkanen, A., Valtonen, K., Holmberg, K. & Oja, O., 2015, In : International Journal of Impact Engineering. 78, p. 114-127 14 p.  
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**Fabrication of a sub-10 nm silicon nanowire based ethanol sensor using block copolymer lithography**

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**Feed-hopper level estimation and control in cone crushers**

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Research output: Contribution to journal > Article > Scientific > peer-review

#### **FEM-based wear simulation for fretting contacts**

Mäntylä, A., Juoksukangas, J., Hintikka, J., Frondelius, T. & Lehtovaara, A., 2020, In : Rakenteiden Mekaniikka. 53, 1, p. 20-27 8 p.

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#### **Fe<sub>2</sub>O<sub>3</sub>-TiO<sub>2</sub> Nano-heterostructure Photoanodes for Highly Efficient Solar Water Oxidation**

Bañreca, D., Carraro, G., Gasparotto, A., Maccato, C., Warwick, M. E. A., Kaunisto, K., Sada, C., Turner, S., Gönüllü, Y., Ruoko, T-P., Borgese, L., Bontempi, E., Van Tendeloo, G., Lemmetyinen, H. & Mathur, S., 2015, In : Advanced Materials Interfaces. 2, 17

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#### **Fin-and-tube heat exchanger enhancement with a combined herringbone and vortex generator design**

Välikangas, T., Singh, S., Sørensen, K. & Condra, T., 2018, In : International Journal of Heat and Mass Transfer. 118, p. 602-616 15 p.

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#### **Fluorine losses in Er<sup>3+</sup> oxyfluoride phosphate glasses and glass-ceramics**

Szczodra, A., Mardoukhi, A., Hokka, M., Boetti, N. G. & Petit, L., 15 Aug 2019, In : Journal of Alloys and Compounds. 797, p. 797-803 7 p.

Research output: Contribution to journal › Article › Scientific › peer-review

#### **Fretting-induced friction and wear in large flat-on-flat contact with quenched and tempered steel**

Hintikka, J., Lehtovaara, A. & Mäntylä, A., 2 Jul 2015, In : Tribology International. 92, p. 191-202 12 p.

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#### **Generic platform for manufacturing execution system functions in knowledge-driven manufacturing systems**

Mohammed, W. M., Ramis Ferrer, B., Iarovyj, S., Negri, E., Fumagalli, L., Lobov, A. & Martinez Lastra, J. L., 4 Mar 2018, In : International Journal of Computer Integrated Manufacturing. p. 1-13 13 p.

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#### **Global energy consumption due to friction and wear in the mining industry**

Holmberg, K., Kivikytö-Reponen, P., Härkisaari, P., Valtonen, K. & Erdemir, A., 1 Nov 2017, In : Tribology International. 115, p. 116-139 24 p.

Research output: Contribution to journal › Article › Scientific › peer-review

#### **Graphoepitaxial Directed Self-Assembly of Polystyrene-Block-Polydimethylsiloxane Block Copolymer on Substrates Functionalized with Hexamethyldisilazane to Fabricate Nanoscale Silicon Patterns**

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#### **Hexaferrite/polyethylene Composite coatings prepared with flame spraying**

Lisjak, D., Lintunen, P., Hujanen, A., Varis, T., Bolelli, G., Lusvarghi, L., Jagodič, M. & Drogenik, M., 15 Feb 2011, In : Materials Letters. 65, 3, p. 534-536 3 p.

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#### **Highly conducting polychloroprene composites based on multi-walled carbon nanotubes and 1-butyl 3-methyl imidazolium bis(trifluoromethylsulphonyl)imide**

Subramaniam, K., Das, A. & Heinrich, G., Jul 2012, In : KGK: KAUTSCHUK GUMMI KUNSTSTOFFE. 65, 7-8, p. 44-46 3 p.

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#### **High-order lattice-Boltzmann**

Philippi, P. C., Siebert, D. N., Hegele, L. A. & Mattila, K. K., 1 Jun 2016, In : Journal of the Brazilian Society of Mechanical Sciences and Engineering. 38, 5, p. 1401-1419 19 p.

Research output: Contribution to journal › Article › Scientific › peer-review

### **High performance natural rubber composites with a hierarchical reinforcement structure of carbon nanotube modified natural fibers**

Tzounis, L., Debnath, S., Rooj, S., Fischer, D., Mäder, E., Das, A., Stamm, M. & Heinrich, G., 2014, In : *Materials and Design*. 58, p. 1-11 11 p.

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### **Hot-box measurements to investigate the internal convection of highly insulated loose-fill insulation roof structures**

Kivioja, H. & Vinha, J., 1 Jun 2020, In : *Energy and Buildings*. 216, 10 p., 109934.

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### **Hydrazone crosslinked hyaluronan-based hydrogels for therapeutic delivery of adipose stem cells to treat corneal defects**

Koivusalo, L., Karvinen, J., Sorsa, E., Jönkkäri, I., Väliäho, J., Kallio, P., Ilmarinen, T., Miettinen, S., Skottman, H. & Kellomäki, M., Apr 2018, In : *Materials Science and Engineering C*. 85, p. 68-78 11 p.

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### **Hyperspectral phase imaging based on denoising in complex-valued eigensubspace**

Shevkunov, I., Katkovnik, V., Claus, D., Pedrini, G., Petrov, N. V. & Egiazarian, K., 1 Apr 2020, In : *Optics and Lasers in Engineering*. 127, 10 p., 105973.

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### **Icephobicity of Slippery Liquid Infused Porous Surfaces under Multiple Freeze–Thaw and Ice Accretion–Detachment Cycles**

Niemelä-Anttonen, H., Koivuluoto, H., Tuominen, M., Teisala, H., Juuti, P., Haapanen, J., Harra, J., Stenroos, C., Lahti, J., Kuusipalo, J., Mäkelä, J. M. & Vuoristo, P., Oct 2018, In : *Advanced Materials Interfaces*. 5, 20

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### **ILC1 drive intestinal epithelial and matrix remodelling**

Jowett, G. M., Norman, M. D. A., Yu, T. T. L., Rosell Arévalo, P., Hoogland, D., Lust, S. T., Read, E., Hamrud, E., Walters, N. J., Niazi, U., Chung, M. W. H., Marciano, D., Omer, O. S., Zabinski, T., Danovi, D., Lord, G. M., Hilborn, J., Evans, N. D., Dreiss, C. A., Bozec, L., Oommen, O. P., Lorenz, C. D., da Silva, R. M. P., Neves, J. F. & Gentleman, E., 2020, In : *Nature Materials*. 22 p.

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### **Impact of building usage and occupancy on energy consumption in Finnish daycare and school buildings**

Sekki, T., Airaksinen, M. & Saari, A., 18 Aug 2015, In : *Energy and Buildings*. 105, p. 247-257 11 p.

Research output: Contribution to journal › Article › Scientific › peer-review

### **Impact wear and mechanical behavior of steels at subzero temperatures**

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Research output: Contribution to journal › Article › Scientific › peer-review

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### **Improved dimensional stability with bioactive glass fibre skeleton in poly(lactide-co-glycolide) porous scaffolds for tissue engineering**

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### **Improving the thermal performance of concrete-sandwich envelopes in relation to the moisture behaviour of building structures in boreal conditions**



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Research output: Contribution to journal > Article > Scientific > peer-review

#### **Influence of specimen type and reinforcement on measured tension-tension fatigue life of unidirectional GFRP laminates**

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#### **Kirigami-Based Light-Induced Shape-Morphing and Locomotion**

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#### **Less Is More: Enhancement of Second-Harmonic Generation from Metasurfaces by Reduced Nanoparticle Density**

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#### **Lithography-free oxide patterns as templates for self-catalyzed growth of highly uniform GaAs nanowires on Si(111)**

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#### **Low temperature afterglow from SrAl<sub>2</sub>O<sub>4</sub>: Eu, Dy, B containing glass**

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### **Naturally occurring amino acids: A suitable substitute of N-N'-di-phenyl guanidine (DPG) in silica tyre formulation?**

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### **New design of textile light diffusers for photodynamic therapy**

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**On the effect of deformation twinning and microstructure to strain hardening of high manganese austenitic steel 3D microstructure aggregates at large strains**

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**Persistent luminescent borosilicate glasses using direct particles doping method**

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**Phosphate/oxyfluorophosphate glass crystallization and its impact on dissolution and cytotoxicity**

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**Potential of renewable fuel to reduce diesel exhaust particle emissions**

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**The deformation, strain hardening, and wear behavior of chromium-alloyed hadfield steel in abrasive and impact conditions**

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**The potential of electric trucks – An international commodity-level analysis**

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**Thermal, structural and in vitro dissolution of antimicrobial copper-doped and slow resorbable iron-doped phosphate glasses**

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