

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.

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

Tribocorrosion behaviour of tin bronze CuSn12 under a sliding motion in NaCl containing environment: Contact to inert vs. reactive counterbody

Huttunen-Saarivirta, E., Kilpi, L., Pasanen, A. T., Salminen, T. & Ronkainen, H., 1 Nov 2020, In : Tribology International. 151, 106389.

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

Soft robotic gripper with compliant cell stacks for industrial part handling

Netzev, M., Angleraud, A. & Pieters, R., 1 Oct 2020, In : IEEE Robotics and Automation Letters. 5, 4, p. 6821-6828 8 p.

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

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

Transparent microelectrode arrays fabricated by ion beam assisted deposition for neuronal cell in vitro recordings

Ryyänen, T., Mzezewa, R., Meriläinen, E., Hyvärinen, T., Lekkala, J., Narkilahti, S. & Kallio, P., 1 May 2020, In : Micromachines. 11, 5, 497.

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

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.

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

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

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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

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

Assessment of pitting corrosion in bare and passivated (wet scCO_2 -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.

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

Asymptotics and approximation of large systems of ordinary differential equations

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

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.

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

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

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.

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

Deformability analysis and improvement in stretchable electronics systems through finite element analysis

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

FEM-based wear simulation for fretting contacts

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

From Responsive Molecules to Interactive Materials

Primägi, A. (ed.) & Hecht, S. (ed.), 2020, In : *Advanced Materials*. 32, 20, 3 p., 2000215.

Research output: Contribution to journal › Editorial › Scientific

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.

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

Introducing Multi-Convexity in Path Constrained Trajectory Optimization for Mobile Manipulators

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Käyräviivaiset koordinaatitot kontinuumimekaniikassa

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Low temperature afterglow from SrAl₂O₄: Eu, Dy, B containing glass

Vitola, V., Lahti, V., Bite, I., Spustaka, A., Millers, D., Lastusaari, M., Petit, L. & Smits, K., 2020, In : *Scripta Materialia*. 190, p. 86-90 5 p.

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Moving Web and Dynamic Problem of Aerothermoelastic Vibrations and Instability

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

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

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

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Resilient Cooperative Voltage Control for Distribution Network with High Penetration Distributed Energy Resources

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Special Issue: From Responsive Materials to Interactive Materials

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Research output: Contribution to journal › Special issue › Scientific › peer-review

Syndecan-4 tunes cell mechanics by activating the kindlin-integrin-RhoA pathway

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Viewpoint: Pavlovian Materials—Functional Biomimetics Inspired by Classical Conditioning

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Potential of renewable fuel to reduce diesel exhaust particle emissions

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

Prediction of contact condition and surface damage by simulating variable friction coefficient and wear

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

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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Tribocorrosion behaviour of two low-alloy steel grades in simulated waste solution

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Vehicle type detection and passenger satisfaction analysis using smartphone sensors and digital surveys

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Multiresonant High-Q Plasmonic Metasurfaces

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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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Pneumatic unidirectional cell stretching device for mechanobiological studies of cardiomyocytes

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

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The formation and characterization of fretting-induced degradation layers using quenched and tempered steel

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

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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

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

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

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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

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Design and Control of a Flexible Joint as a Hydraulic Series Elastic Actuator for Manipulation Applications

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

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

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M-Estimator Application in Real-Time Sensor Fusion for Smooth Position Feedback of Heavy-Duty Field Robots

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Slurry and dry particle erosion wear properties of WC-10Co4Cr and Cr₃C₂-25NiCr hardmetal coatings deposited by HVOF and HVOF spray processes

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Nanoscale barrier coating on BOPP packaging film by ALD

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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

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

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Nanoparticle deposition on packaging materials by the liquid flame spray

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

A framework for building behavioral models for design-stage failure identification using dimensional analysis

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The effects of corona and flame treatment: Part 2. PE-HD and PP coated papers

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The effect of phosphorous and arsenic on the fracture behaviour of a 2,25% Cr-1% Mo Steel

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