

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

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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 scCO₂-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

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

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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Multi-sensor next-best-view planning as matroid-constrained submodular maximization

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

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

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

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Shedding frequency in cavitation erosion evolution tracking

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

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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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Market implementation of active and intelligent packaging-opportunities from a socio-economic perspective

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

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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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Spodumene tailings for porcelain and structural materials: Effect of temperature (1050–1200°C) on the sintering and properties

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

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Flux-Weakening Control for IPMSM Employing Model Order Reduction

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Evaluation of parts of a boat cabin based on exergy - Focusing on environmental and economic assessments

Medyna, G., Coatanea, E. & Millet, D., 2011, *ASME 2011 International Mechanical Engineering Congress and Exposition, IMECE 2011*. PARTS A AND B ed. AMER SOC MECHANICAL ENGINEERS, Vol. 4. p. 1083-1092 10 p.

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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Semantic analysis of function-solution duality

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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

Coatanéa, E., Ritola, T., Tumer, I. Y. & Jensen, D., 2010, *Proceedings of the ASME Design Engineering Technical Conference*. AMER SOC MECHANICAL ENGINEERS, Vol. 5. p. 591-601 11 p.

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

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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

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