

**Redox-active, organometallic surface-relief gratings from azobenzene-containing polyferrocenylsilane block copolymers**

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

**Enablers and barriers of smart data-based asset management services in industrial business networks**

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**Static friction measurements on steel against uncoated and coated cast iron**

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

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**Nonlinear model predictive energy management of hydrostatic drive transmissions**

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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**

Barreca, 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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**Vapor Phase Fabrication of Nanoheterostructures Based on ZnO for Photoelectrochemical Water Splitting**

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

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

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

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

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

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

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

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

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

Valtonen, K., Ratia, V., Ramakrishnan, K. R., Apostol, M., Terva, J. & Kuokkala, V-T., 2019, In : Tribology International. 129, p. 476-493 18 p.

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

#### **Effects of adiabatic heating estimated from tensile tests with continuous heating**

Vazquez Fernandez, N., Isakov, M., Hokka, M. & Kuokkala, V. T., 2018, *Dynamic Behavior of Materials - Proceedings of the 2017 Annual Conference on Experimental and Applied Mechanics*. Springer New York LLC, Vol. 1. p. 1-7 7 p. (Conference Proceedings of the Society for Experimental Mechanics).

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

#### **Low temperature afterglow from SrAl<sub>2</sub>O<sub>4</sub>: 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.

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

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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**

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

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

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#### **Operating point dependent variable switching point predictive current control for PMSM drives**

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**Transfer printing of metallic microstructures on adhesion-promoting hydrogel substrates**

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

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**Biomimetic hemo-compatible surfaces of polyurethane by grafting copolymer brushes of poly(ethylene glycol) and poly(phosphorylcholine methacrylate)**

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