

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

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

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**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)**

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

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### **Corrosion mechanisms of sintered Nd-Fe-B magnets in the presence of water as vapour, pressurised vapour and liquid**

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

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

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#### **End-plate connections in Bi-axial bending - Measurements**

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**Fabrication of a sub-10 nm silicon nanowire based ethanol sensor using block copolymer lithography**

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**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**

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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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**Measurement theory and dimensional analysis: Methodological impact on the comparison and evaluation process**  
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#### **Model Order Reduction of Bearingless Reluctance Motor Including Eccentricity**

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#### **Nanocellulose and Polylactic Acid Based Multilayer Coatings for Barrier Applications**

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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 role of niobium in improving toughness and corrosion resistance of high speed steel laser hardfacings**

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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**

Ryynänen, 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

### **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

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

Mäntyranta, A., Heino, V., Isotahdon, E., Salminen, T. & Huttunen-Saarivirta, E., 1 Oct 2019, In : *Tribology International*. 138, p. 250-262 13 p.

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

### **Ultrafast Processing of Hierarchical Nanotexture for a Transparent Superamphiphobic Coating with Extremely Low Roll-Off Angle and High Impalement Pressure**

Teisala, H., Geyer, F., Haapanen, J., Juuti, P., Mäkelä, J. M., Vollmer, D. & Butt, H. J., 2018, In : *Advanced Materials*. 30, 14, 1706529.

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

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

Barreca, D., Carraro, G., Gasparotto, A., Maccato, C., Altantzis, T., Sada, C., Kaunisto, K., Ruoko, T-P. & Bals, S., 2017, In : *Advanced Materials Interfaces*. 4, 18, 1700161.

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

### **Variable speed digital hydraulic transformer-based servo drive**

Linjama, M., 2019, In : *Proceedings of the Institution of Mechanical Engineers. Part I: Journal of Systems and Control Engineering*.

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

**Variable speed drive with hydraulic boost**

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

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

Perttula, A., Nguyen, N., Collin, J. & Jokinen, J-P., 1 Oct 2019, In : IET Intelligent Transport Systems. 13, 10, p. 1499-1506 8 p.

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

**Viewpoint: Pavlovian Materials—Functional Biomimetics Inspired by Classical Conditioning**

Zhang, H., Zeng, H., Priimägi, A. & Ikkala, O., 2020, In : Advanced Materials. 9 p., 1906619.

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

**Waves in hyperbolic and double negative metamaterials including rogues and solitons**

Boardman, A. D., Alberucci, A., Assanto, G., Grimalsky, V. V., Kibler, B., McNiff, J., Nefedov, I. S., Rapoport, Y. G. & Valagiannopoulos, C. A., 9 Oct 2017, In : Nanotechnology. 28, 44, 444001.

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

**Wear and impact behaviour of High Velocity Air-Fuel sprayed Fe-Cr-Ni-B-C alloy coatings**

Bolelli, G., Milanti, A., Lusvarghi, L., Trombi, L., Koivuluoto, H. & Vuoristo, P., 2016, In : Tribology International. 95, p. 372-390

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