

3D micro-nano structured hybrid scaffolds: An investigation into the role of nanofiber coating on viability, proliferation and differentiation of seeded mesenchymal stem cells

Pilehrood, M. K., Atashi, A., Sadeghi-Aliabadi, H., Nousiainen, P. & Harlin, A., 1 Sep 2016, In : Journal Nanoscience and Nanotechnology. 16, 9, p. 9000-9007 8 p.

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

A Bioscreening Technique for Ultraviolet Irradiation Protective Natural Substances

Tienaho, J., Poikulainen, E., Sarjala, T., Muilu-Mäkelä, R., Santala, V. & Karp, M., 2018, In : Photochemistry and Photobiology. 94, 6, p. 1273-1280

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

Accurate Binding of Sodium and Calcium to a POPC Bilayer by Effective Inclusion of Electronic Polarization

Melcr, J., Martínez-Seara, H., Nencini, R., Kolafa, J., Jungwirth, P. & Ollila, O. H. S., 26 Apr 2018, In : Journal of Physical Chemistry B. 122, 16, p. 4546-4557 12 p.

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

Accurate description of aqueous carbonate ions: An effective polarization model verified by neutron scattering

Mason, P. E., Wernersson, E. & Jungwirth, P., 19 Jul 2012, In : Journal of Physical Chemistry Part B. 116, 28, p. 8145-8153 9 p.

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

Accurate description of calcium solvation in concentrated aqueous solutions

Kohagen, M., Mason, P. E. & Jungwirth, P., 17 Jul 2014, In : Journal of Physical Chemistry Part B. 118, 28, p. 7902-7909 8 p.

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

A Ceramide-Regulated Element in the Late Endosomal Protein LAPT4B Controls Amino Acid Transporter Interaction

Zhou, K., Dichlberger, A., Martínez-Seara, H., Nyholm, T. K. M., Li, S., Kim, Y. A., Vattulainen, I., Ikonen, E. & Blom, T., 23 May 2018, In : ACS Central Science. 4, 5, p. 548-558 11 p.

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

A cluster approach for the SnO₂ (110) face

Rantala, T. S., Lantto, V. & Rantala, T. T., 1994, In : Sensors and Actuators B: Chemical. 19, 1-3, p. 716-719 4 p.

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

A 'clusters-in-liquid' method for calculating infrared spectra identifies the proton-transfer mode in acidic aqueous solutions

Kulig, W. & Agmon, N., Jan 2013, In : Nature Chemistry. 5, 1, p. 29-35 7 p.

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

A compact olfactometer for IMS measurements and testing human perception

Nieminen, V., Karjalainen, M., Salminen, K., Rantala, J., Kontunen, A., Isokoski, P., Müller, P., Kallio, P., Surakka, V. & Lekkala, J., Sep 2018, In : International Journal for Ion Mobility Spectrometry. 21, 3, p. 71-80 10 p.

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

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 rheology and FTIR in the study of polypropylene and polystyrene photodegradation

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

Acquiring respiration rate from photoplethysmographic signal by recursive bayesian tracking of intrinsic modes in time-frequency spectra

Pirhonen, M., Peltokangas, M. & Vehkaoja, A., 1 Jun 2018, In : Sensors. 18, 6, 1693.

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

Adsorption of furfural from torrefaction condensate using torrefied biomass

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

A facile route to synthesis of S-doped TiO₂ nanoparticles for photocatalytic activity

McManamon, C., O'Connell, J., Delaney, P., Rasappa, S., Holmes, J. D. & Morris, M. A., 30 May 2015, In : Journal of Molecular Catalysis A: Chemical. 406, p. 51-57!

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

Affine-response model of molecular solvation of ions: Accurate predictions of asymmetric charging free energies

Bardhan, J. P., Jungwirth, P. & Makowski, L., 28 Sep 2012, In : Journal of Chemical Physics. 137, 12, 124101.

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

A finite cluster approach to the electron-hole pair damping of the adsorbate vibration: CO adsorbed on Cu(100)

Rantala, T. T., Rosén, A. & Hellsing, B., 1986, In : Journal of Electron Spectroscopy and Related Phenomena. 39, C, p. 173-181 9 p.

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

A Finite Cluster Approach to the Electron-Hole Pair Damping of the Adsorbate Vibration: CO Adsorbed on Cu(100)

Rantala, T. T., Rosén, A. & Hellsing, B., 1986, In : Studies in Surface Science and Catalysis. 26, C, p. 173-181 9 p.

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

A full-potential linearized augmented plane wave study of the interaction of CO₂ with α-Pu (020) surface nanolayers

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

Alginate microgels created by selective coalescence between core drops paired with an ultrathin shell

Lee, T. Y., Ramasamy, P., Oh, Y. K., Lee, K. & Kim, S. H., 2016, In : Journal of Materials Chemistry B. 4, 19, p. 3232-3238 7 p.

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

Alpha radiation-induced luminescence by am-241 in aqueous nitric acid solution

Kerst, T., Malmbeck, R., Ial Banik, N. L. & Toivonen, J., 1 Apr 2019, In : Sensors (Switzerland). 19, 7, 1602.

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

Ambient-Pressure XPS Study of a Ni-Fe Electrocatalyst for the Oxygen Evolution Reaction

Ali-Löytty, H., Louie, M. W., Singh, M. R., Li, L., Sanchez Casalongue, H. G., Ogasawara, H., Crumlin, E. J., Liu, Z., Bell, A. T., Nilsson, A. & Friebel, D., 4 Feb 2016, In : Journal of Physical Chemistry C. 120, 4, p. 2247-2253 7 p.

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

A microscopic view of the mechanisms of active transport across the cellular membrane

Enkavi, G., Li, J., Wen, P., Thangapandian, S., Moradi, M., Jiang, T., Han, W. & Tajkhorshid, E., 2014, In : Annual Reports in Computational Chemistry. 10, p. 77-125 49 p.

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

Aminobenzylated 4-Nitrophenols as Antibacterial Agents Obtained from 5-Nitrosalicylaldehyde through a Petasis Borono-Mannich Reaction

Rimpiläinen, T., Andrade, J., Nunes, A., Ntungwe, E., Fernandes, A. S., Vale, J. R., Rodrigues, J., Gomes, J. P., Rijo, P. & Candeias, N. R., 29 Nov 2018, In : ACS Omega. 3, 11, p. 16191-16202 12 p.

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

An activity recognition framework deploying the random forest classifier and a single optical heart rate monitoring and triaxial accelerometer wrist-band

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

Analysis of free, mono- and diacetylated polyamines from human urine by LC-MS/MS

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

Analysis of GaAsBi growth regimes in high resolution with respect to As/Ga ratio using stationary MBE growth

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

Analytical Expressions for Spring Constants of Capillary Bridges and Snap-in Forces of Hydrophobic Surfaces

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

An automated algorithm for reliable equation of state fitting of magnetic systems

Levämäki, H., Tian, L-Y., Vitos, L. & Ropo, M., 2019, In : Computational Materials Science. 156, p. 121-128 8 p.

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An electro-optically tunable Bragg reflector based on liquid crystals

Gilardi, G., Asquini, R., D'Alessandro, A. & Assanto, G., 2011, In : Molecular Crystals and Liquid Crystals. 549, p. 62-68 7 p.

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Anomalous Auger-electron spectra of metallic calcium

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

A novel thermotropic elastomer based on highly-filled LDH-SSB composites

Das, A., George, J. J., Kutlu, B., Leuteritz, A., Wang, D. Y., Rooj, S., Jurk, R., Rajeshbabu, R., Stöckelhuber, K. W., Galiatsatos, V. & Heinrich, G., 27 Feb 2012, In : Macromolecular Rapid Communications. 33, 4, p. 337-342 6 p.

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

A Pentacene-based Nanotube Displaying Enriched Electrochemical and Photochemical Activities

Kuroda, K., Yazaki, K., Tanaka, Y., Akita, M., Sakai, H., Hasobe, T., Tkachenko, N. V. & Yoshizawa, M., Jan 2019, In : Angewandte Chemie - International Edition. 58, 4, p. 1115-1119

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

A potential nonthrombogenic small-diameter vascular scaffold with polyurethane/poly(ethylene glycol) hybrid materials by electrospinning technique

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

Appropriate pricing policy needed worldwide for improving water services infrastructure

Hukka, J. J. & Katko, T. S., 1 Jan 2015, In : Journal American Water Works Association. 107, 1, p. E37-E46

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

Aqueous guanidinium-carbonate interactions by molecular dynamics and neutron scattering: Relevance to ion-protein interactions

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

Architectures and codecs for real-time light field streaming

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Arrhenius analysis of anisotropic surface self-diffusion on the prismatic facet of ice

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A supramolecular approach to photoresponsive thermo/solvoplastic block copolymer elastomers

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A Three-Component Assembly Promoted by Boronic Acids Delivers a Modular Fluorophore Platform (BASHY Dyes)

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

Atomic-level characterization of transport cycle thermodynamics in the glycerol-3-phosphate: Phosphate antiporter

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

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

Azopolymer-based micro- and nanopatterning for photonic applications

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

Ballistic and numerical simulation of impacting goods on conveyor belt rubber

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

Batch dark fermentative hydrogen production from grass silage: The effect of inoculum, pH, temperature and VS ratio

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

Bayesian inversion of a forest reflectance model using Sentinel-2 and Landsat 8 satellite images

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

Beaming random lasers with soliton control

Perumbilavil, S., Piccardi, A., Barboza, R., Buchnev, O., Kauranen, M., Strangi, G. & Assanto, G., 1 Dec 2018, In : Nature Communications. 9, 1, 7 p., 3863.

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

Behavior of 4-hydroxynonenal in phospholipid membranes

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

Behavior of the DPH fluorescence probe in membranes perturbed by drugs

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

Behavior of β -amyloid 1-16 at the air-water interface at varying pH by nonlinear spectroscopy and molecular dynamics simulations

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

Benchmarking DFT methods with small basis sets for the calculation of halogen-bond strengths

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

Bi-directional cell-pericellular matrix interactions direct stem cell fate

Ferreira, S. A., Motwani, M. S., Faull, P. A., Seymour, A. J., Yu, T. T. L., Enayati, M., Taheem, D. K., Salzlechner, C., Haghghi, T., Kania, E. M., Oommen, O. P., Ahmed, T., Loaiza, S., Parzych, K., Dazzi, F., Varghese, O. P., Festy, F., Grigoriadis, A. E., Auner, H. W., Snijders, A. P., Bozec, L. & Gentleman, E., Dec 2018, In : Nature Communications. 9, 1, 12 p., 4049.

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Bioimpedance Sensor Array for Long-Term Monitoring of Wound Healing from Beneath the Primary Dressings and Controlled Formation of H_2O_2 Using Low-Intensity Direct Current

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

Biological treatment of selenium-laden wastewater containing nitrate and sulfate in an upflow anaerobic sludge bed reactor at pH 5.0

Tan, L. C., Nancharaiyah, Y. V., Lu, S., van Hullebusch, E. D., Gerlach, R. & Lens, P. N. L., 1 Nov 2018, In : Chemosphere. 211, p. 684-693 10 p.

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

Biomimetic surface modification of polycarbonateurethane film via phosphorylcholine-graft for resisting platelet adhesion

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

Biomimetic zinc chlorin-poly(4-vinylpyridine) assemblies: Doping level dependent emission-absorption regimes

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

Bioprocessing of enhanced cellulase production from a mutant of *Trichoderma asperellum* RCK2011 and its application in hydrolysis of cellulose

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

Block co-polymers for nanolithography: Rapid microwave annealing for pattern formation on substrates

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

Both zundel and eigen isomers contribute to the IR spectrum of the gas-phase H₉O₄ + cluster

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

Buckling Behavior of Cold-Formed Studs with Thermal Perforations

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

Calcium Directly Regulates Phosphatidylinositol 4,5-Bisphosphate Headgroup Conformation and Recognition

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

Calculation of the molecular ordering parameters of (±)-3-butyn-2-ol dissolved in an organic solution of poly(γ-benzyl-L-glutamate)

Lesot, P., Merlet, D., Courtieu, J., Emsley, J. W., Rantala, T. T. & Jokisaari, J., 31 Jul 1997, In : Journal of Physical Chemistry A. 101, 31, p. 5719-5724 6 p.

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

Carbazole-based small molecule electron donors: Syntheses, characterization, and material properties

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

Carbon nanotubes-filled thermoplastic polyurethane-urea and carboxylated acrylonitrile butadiene rubber blend nanocomposites

Mahmood, N., Khan, A. U., Stöckelhuber, K. W., Das, A., Jehnichen, D. & Heinrich, G., 5 Jun 2014, In : Journal of Applied Polymer Science. 131, 11

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

Catalytic Activity of AuCu Clusters on MgO(100): Effect of Alloy Composition for CO Oxidation

Ma, L., Laasonen, K. & Akola, J., 25 May 2017, In : Journal of Physical Chemistry C. 121, 20, p. 10876-10886 11 p.

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

Catalytic effect of Ca and K on CO₂ gasification of spruce wood char

Perander, M., DeMartini, N., Brink, A., Kramb, J., Karlström, O., Hemming, J., Moilanen, A., Konttinen, J. & Hupa, M., 15 Jun 2015, In : Fuel. 150, p. 464-472 9 p.

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

Cation-specific effects on enzymatic catalysis driven by interactions at the tunnel mouth

Štěpánková, V., Paterová, J., Damborský, J., Jungwirth, P., Chaloupková, R. & Heyda, J., 30 May 2013, In : Journal of Physical Chemistry Part B. 117, 21, p. 6394-6402 9 p.

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

Cell toxicity and oxidative potential of engine exhaust particles: Impact of using particulate filter or biodiesel fuel blend

Gerlofs-Nijland, M. E., Totlandsdal, A. I., Tzankiozis, T., Leseman, D. L. A. C., Samaras, Z., Låg, M., Schwarze, P., Ntziachristos, L. & Cassee, F. R., 4 Jun 2013, In : Environmental Science and Technology. 47, 11, p. 5931-5938 8 p.

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

Characterisation of novel regenerated cellulosic, viscose, and cotton fibres and the dyeing properties of fabrics

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

Characteristics of nFOG, an aerosol-based wet thin film coating technique

Harra, J., Tuominen, M., Juuti, P., Rissler, J., Koivuluoto, H., Haapanen, J., Niemelä-Anttonen, H., Stenroos, C., Teisala, H., Lahti, J., Kuusipalo, J., Vuoristo, P. & Mäkelä, J. M., May 2018, In : Journal of Coatings Technology Research. 15, 3, p. 623-632 10 p.

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

Characterizing the micro-impact fatigue behavior of APS and HVOF-sprayed ceramic coatings

Kiilakoski, J., Langlade, C., Koivuluoto, H. & Vuoristo, P., 15 Aug 2019, In : Surface and Coatings Technology. 371, p. 245-254

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

Charge carrier dynamics in tantalum oxide overlayers and tantalum doped hematite photoanodes

Ruoko, T-P., Hiltunen, A., Iivonen, T., Ulkuniemi, R., Lahtonen, K., Ali-Löyty, H., Mizohata, K., Valden, M., Leskelä, M. & Tkachenko, N. V., Jan 2019, In : Journal of Materials Chemistry A. 7, 7, p. 3206-3215 10 p.

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

Chasing charge localization and chemical reactivity following photoionization in liquid water

Marsalek, O., Elles, C. G., Pieniazek, P. A., Pluhaov, E., Vandevondele, J., Bradforth, S. E. & Jungwirth, P., 14 Dec 2011, In : Journal of Chemical Physics. 135, 22, 224510.

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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.

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

Chemolithotrophic denitrification in biofilm reactors

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

Chlorine induced high-temperature corrosion mechanisms in HVOF and HVOF sprayed Cr₃C₂-based hardmetal coatings

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Cholesterol driven alteration of the conformation and dynamics of phospholamban in model membranes

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Cholesterol oxidation products and their biological importance

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Collective excitations and viscosity in liquid Bi

Ropo, M., Akola, J. & Jones, R. O., 14 Nov 2016, In : Journal of Chemical Physics. 145, 18, 184502.

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Comparison of different cationized proteins as biomaterials for nanoparticle-based ocular gene delivery

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Compatibilization of natural rubber/nitrile rubber blends by sol-gel nano-silica generated by in situ method

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Complex Behavior of Phosphatidylcholine-Phosphatidic Acid Bilayers and Monolayers: Effect of Acyl Chain Unsaturation

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Composite Hydrogels Using Bioinspired Approach with in Situ Fast Gelation and Self-Healing Ability as Future Injectable Biomaterial

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Composition and role of the attached and planktonic microbial communities in mesophilic and thermophilic xylose-fed microbial fuel cells

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Concentration-dependent photophysical switching in mixed self-assembled monolayers of pentacene and perylene diimide on gold nanoclusters

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Configurational Disorder of Water Hydrogen-Bond Network at the Protein Dynamical Transition

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Construction of an Interconnected Nanostructured Carbon Black Network: Development of Highly Stretchable and Robust Elastomeric Conductors

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Controllable Electronic Structures and Photoinduced Processes of Bay-Linked Perylene diimide Dimers and a Ferrocene-Linked Triad

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Effect of Co-Adsorbate and Hole Transporting Layer on the Photoinduced Charge Separation at the TiO₂-Phthalocyanine Interface

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Effect of melting state on the thermal shock resistance and thermal conductivity of APS ZrO₂-7.5wt.% Y₂O₃ coatings

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Effect of non-rubber components of NR on the carbon nanotube (CNT) localization in SBR/NR blends

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Effect of spraying parameters on the microstructural and corrosion properties of HVOF-sprayed Fe-Cr-Ni-B-C coatings

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Effect of surface morphology of poly(ϵ -caprolactone) scaffolds on adipose stem cell adhesion and proliferation

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Effect of surfactant type and sonication energy on the electrical conductivity properties of nanocellulose-CNT nanocomposite films

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Effects of anode materials on electricity production from xylose and treatability of TMP wastewater in an up-flow microbial fuel cell

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Effects of orientation at the phthalocyanine-CdSe interface on the electron transfer characteristics

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Mäkelä, J., Tuominen, M., Yasir, M., Polojärvi, V., Aho, A., Tukiainen, A., Kuzmin, M., Punkkinen, M. P. J., Laukkanen, P., Kokko, K. & Guina, M., 24 Aug 2015, In : Journal of Electron Spectroscopy and Related Phenomena. 205, p. 6-9 4 p.

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Efficient photon upconversion at remarkably low annihilator concentrations in a liquid polymer matrix: when less is more

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Efficient surface structuring and photoalignment of supramolecular polymer-azobenzene complexes through rational chromophore design

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Electricity production by a microbial fuel cell fueled by brewery wastewater and the factors in its membrane deterioration

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Electromagnetic interference shielding effectiveness of MWCNT filled poly(ether sulfone) and poly(ether imide) nanocomposites

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Encapsulation of secondary and tertiary ammonium salts by resorcinarenes and pyrogallarenes: The effect of size and charge concentration

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Enhanced adsorption of orthophosphate and copper onto hydrochar derived from sewage sludge by KOH activation

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Enrichment polymer layers for detection of volatile vapors by ATR FT-IR

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Entrapped Styrene Butadiene Polymer Chains by Sol-Gel-Derived Silica Nanoparticles with Hierarchical Raspberry Structures

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Equipment for obtaining polymeric nanofibres by electrospinning technology: II. The obtaining of polymeric nanofibers

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Exhaust emissions of non-road mobile machine: Real-world and laboratory studies with diesel and HVO fuels

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Exploring the role of stearic acid in modified zinc aluminum layered double hydroxides and their acrylonitrile butadiene rubber nanocomposites

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Fe₂O₃-TiO₂ nanosystems by a hybrid PE-CVD/ALD approach: controllable synthesis, growth mechanism, and photocatalytic properties

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Hexaphyrin as a Potential Theranostic Dye for Photothermal Therapy and ¹⁹F Magnetic Resonance Imaging

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

Improved Stability of Atomic Layer Deposited Amorphous TiO₂ Photoelectrode Coatings by Thermally Induced Oxygen Defects

Hannula, M., Ali-Löytty, H., Lahtonen, K., Sarlin, E., Saari, J. & Valden, M., 27 Feb 2018, In : Chemistry of Materials. 30, 4, p. 1199-1208 10 p.

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

Improvement of actuation performance of dielectric elastomers by barium titanate and carbon black fillers

Poikelispää, M., Shakun, A., Das, A. & Vuorinen, J., 10 Nov 2016, In : Journal of Applied Polymer Science. 133, 42, 44116.

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

Improving the high temperature abrasion resistance of thermally sprayed Cr₃C₂-NiCr coatings by WC addition

Janka, L., Berger, L. M., Norpoth, J., Trache, R., Thiele, S., Tomastik, C., Mätikäinen, V. & Vuoristo, P., 15 Mar 2018, In : Surface and Coatings Technology. 337, p. 296-305 10 p.

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

Increased survival rate by local release of diclofenac in a murine model of recurrent oral carcinoma

Will, O. M., Purcz, N., Chalaris, A., Heneweer, C., Boretius, S., Purcz, L., Nikkola, L., Ashammakhi, N., Kalthoff, H., Glüer, C. C., Wiltfang, J., Açil, Y. & Tiwari, S., 12 Oct 2016, In : International Journal of Nanomedicine. 11, p. 5311-5321 11 p.

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

Inequivalence of single CH_a and CH_b methylene bonds in the interior of a diunsaturated lipid bilayer from a molecular dynamics simulation

Hyvönen, M., Ala-Korpela, M., Vaara, J., Rantala, T. T. & Jokisaari, J., 4 Apr 1997, In : Chemical Physics Letters. 268, 1-2, p. 55-60 6 p.

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

Influence of heat treatment on the abrasive wear resistance of a Cr₃C₂NiCr coating deposited by an ethene-fuelled HVOF spray process

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

Influence of ionic liquids on the dielectric relaxation behavior of CNT based elastomer nanocomposites

Steinhauser, D., Subramaniam, K., Das, A., Heinrich, G. & Klüppel, M., Nov 2012, In : Express Polymer Letters. 6, 11, p. 927-936 10 p.

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

Influence of ions to modulate hydrazone and oxime reaction kinetics to obtain dynamically cross-linked hyaluronic acid hydrogels

Wang, S., Nawale, G. N., Oommen, O. P., Hilborn, J. & Varghese, O. P., 21 Aug 2019, In : Polymer Chemistry. 10, 31, p. 4322-4327 6 p.

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

Influence of relative humidity and physical load during storage on dustiness of inorganic nanomaterials: implications for testing and risk assessment

Levin, M., Rojas, E., Vanhala, E., Vippola, M., Liguori, B., Kling, K. I., Koponen, I. K., Mølhave, K., Tuomi, T., Gregurec, D., Moya, S. & Jensen, K. A., 14 Aug 2015, In : Journal of Nanoparticle Research. 17, 8, 337.

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

In Situ Photocontrol of Block Copolymer Morphology during Dip-Coating of Thin Films

Vapaavuori, J., Grosrenaud, J., Pellerin, C. & Bazuin, C. G., 20 Oct 2015, In : ACS Macro Letters. 4, 10, p. 1158-1162 5 p.

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

Interactions of molecular ions with model phospholipid membranes

Petrov, M., Cwiklik, L. & Jungwirth, P., 2011, In : Collection of Czechoslovak Chemical Communications. 76, 6, p. 695-711 17 p.

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

Internal structure, hygroscopic and reactive properties of mixed sodium methanesulfonate-sodium chloride particles

Liu, Y., Minofar, B., Desyaterik, Y., Dames, E., Zhu, Z., Cain, J. P., Hopkins, R. J., Gilles, M. K., Wang, H., Jungwirth, P. & Laskin, A., 7 Jul 2011, In : Physical Chemistry Chemical Physics. 13, 25, p. 11846-11857 12 p.

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

Inverted critical adsorption of polyelectrolytes in confinement

De Carvalho, S. J., Metzler, R. & Cherstvy, A. G., 14 Jun 2015, In : Soft Matter. 11, 22, p. 4430-4443 14 p.

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

Investigation of the adducts formed by reaction of butenedioic acids with adenosine

Franzén, R., Morita, M., Tanabe, K., Takagi, H. & Shibata, Y., Oct 1997, In : Chemical Research in Toxicology. 10, 10, p. 1186-1191 6 p.

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

Ionization of purine tautomers in nucleobases, nucleosides, and nucleotides: From the gas phase to the aqueous environment

Pluhařová, E., Jungwirth, P., Bradforth, S. E. & Slavíček, P., 10 Feb 2011, In : Journal of Physical Chemistry Part B. 115, 5, p. 1294-1305 12 p.

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

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

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Khan, M. N. & Zharnikov, M., 18 Jul 2013, In : Journal of Physical Chemistry C. 117, 28, p. 14534-14543 10 p.

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

Kinetics of bioconjugate nanoparticle label binding in a sandwich-type immunoassay

Näreoja, T., Ebner, A., Gruber, H. J., Taskinen, B., Kienberger, F., Hänninen, P. E., Hytönen, V. P., Hinterdorfer, P. & Härmä, H., 2014, In : Analytical and Bioanalytical Chemistry. 406, 2, p. 493-503 11 p.

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

Kinetics of filler wetting and dispersion in carbon nanotube/rubber composites

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

Kinetics of polymer looping with macromolecular crowding: Effects of volume fraction and crowder size

Shin, J., Cherstvy, A. G. & Metzler, R., 21 Jan 2015, In : *Soft Matter*. 11, 3, p. 472-488 17 p.

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

Large-scale efficient water harvesting using bioinspired micro-patterned copper oxide nanoneedle surfaces and guided droplet transport

Sharma, V., Yiannacou, K., Karjalainen, M., Lahtonen, K., Valden, M. & Sariola, V., 2019, In : *Nanoscale Advances*. 1, 10, p. 4025-4040 16 p.

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

La thérapie photodynamique: État de l'art et perspectives

Translated title of the contribution: : The photodynamic therapy: State of the art and perspectives

Frochot, C., Barberi-Heyob, M., Blanchard-Desce, M., Bolotine, L., Bonneau, S., Jimenez, C. M., Durand, J. O., Lassalle, H. P., Lemerrier, G., Mordon, S., Maillard, P., Sol, V., Vever-Bizet, C. & Vicendo, P., 1 Jun 2015, In : *ACTUALITE CHIMIQUE*. 397-398, p. 46-50 5 p.

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

Layered Double Hydroxides (LDH): A multifunctional versatile system for nanocomposites

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

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

Czaplicki, R., Kiviniemi, A., Huttunen, M. J., Zang, X., Stolt, T., Vartiainen, I., Butet, J., Kuittinen, M., Martin, O. J. F. & Kauranen, M., 12 Dec 2018, In : *Nano Letters*. 18, 12, p. 7709-7714 6 p.

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

Light-fuelled transport of large dendrimers and proteins

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

Linking volatile and non-volatile compounds to sensory profiles and consumer liking of wild edible Nordic mushrooms

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

Lipid-assisted protein transport: A diffusion-reaction model supported by kinetic experiments and molecular dynamics simulations

La Rosa, C., Scalisi, S., Lolicato, F., Pannuzzo, M. & Raudino, A., 14 May 2016, In : *Journal of Chemical Physics*. 144, 18, 184901.

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

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

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

Location of dispersing agent in rubber nanocomposites during mixing process

Le, H. H., Oßwald, K., Wießner, S., Das, A., Stöckelhuber, K. W., Boldt, R., Gupta, G., Heinrich, G. & Radusch, H. J., 13 Dec 2013, In : *Polymer*. 54, 26, p. 7009-7021 13 p.

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

Location of the Azobenzene moieties within the cross-linked liquid-crystalline polymers can dictate the direction of photoinduced bending

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

Long-Lived Triplet Excited States of Bent-Shaped Pentacene Dimers by Intramolecular Singlet Fission

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Low-dimensional formamidinium lead perovskite architectures via controllable solvent intercalation

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

M2M Communication Assessment in Energy-Harvesting and Wake-Up Radio Assisted Scenarios Using Practical Components

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Magnetic origin of the chemical balance in alloyed Fe-Cr stainless steels: First-principles and Ising model study

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Magnetic routing of light-induced waveguides

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

Manipulation of polycarbonate urethane bulk properties via incorporated zwitterionic polynorbomene for tissue engineering application

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Mapping microscale wetting variations on biological and synthetic water-repellent surfaces

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Itävuori, P., Hulthén, E., Yahyaoui, M. & Vilkkonen, M., May 2019, In : Minerals Engineering. 135, p. 37-47 11 p.

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Measuring optical anisotropy in poly(3,4-ethylene dioxythiophene): poly(styrene sulfonate) films with added graphene

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

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

Mechanical, thermal, and burning properties of viscose fabric composites: Influence of epoxy resin modification

Rajan, R., Rainosalo, E., Ramamoorthy, S. K., Thomas, S. P., Zavašnik, J., Vuorinen, J. & Skrifvars, M., 20 Sep 2018, In : Journal of Applied Polymer Science. 135, 36, 46673.

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

Mechanisms of acceleration and retardation of water dynamics by ions

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Membrane Binding of Recoverin: From Mechanistic Understanding to Biological Functionality

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

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Guixà-González, R., Albasanz, J. L., Rodríguez-Espigares, I., Pastor, M., Sanz, F., Martí-Solano, M., Manna, M., Martínez-Seara, H., Hildebrand, P. W., Martín, M. & Selent, J., 21 Feb 2017, In : Nature Communications. 8, 14505.

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

Metabolic profiling of water-soluble compounds from the extracts of dark septate endophytic fungi (DSE) isolated from scots pine (Pinus sylvestris L.) seedlings using UPLC–orbitrap–MS

Tienaho, J., Karonen, M., Muilu-Mäkelä, R., Wähälä, K., Denegri, E. L., Franzén, R., Karp, M., Santala, V. & Sarjala, T., 2019, In : Molecules. 24, 12, 2330.

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

Metal chalcogenide quantum dots: Biotechnological synthesis and applications

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

Methods for simultaneous robot-world-hand-eye calibration: A comparative study

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

MeIntSimil-an accurate and robust metric for comparison of similarity in intelligence of any number of cooperative multiagent systems

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

Microphase mechanism of "superquenching" of luminescent probes in aqueous solutions of DNA and some other polyelectrolytes

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

Microwave assisted laser-induced breakdown spectroscopy at ambient conditions

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Modeling carbon dioxide transport in PDMS-based microfluidic cell culture devices

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Modification of epoxy resin by silane-coupling agent to improve tensile properties of viscose fabric composites

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Moiré superlattices and 2D electronic properties of graphite/MoS₂ heterostructures

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

Molecular Design of Light-Responsive Hydrogels, for in Situ Generation of Fast and Reversible Valves for Microfluidic Applications

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

Molecular dynamics simulations of the interactions of kinin peptides with an anionic PPG bilayer

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Molecularly functionalized silicon substrates for orientation control of the microphase separation of PS-b-PMMA and PS-b-PDMS block copolymer systems

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

Molecular mechanism of T-cell protein tyrosine phosphatase (TCPTP) activation by mitoxantrone

Ylilauri, M., Mattila, E., Nurminen, E. M., Käpylä, J., Niinivehmas, S. P., Määttä, J. A., Pentikäinen, U., Ivaska, J. & Pentikäinen, O. T., 2013, In : *Biochimica et biophysica acta: proteins and proteomics*. 1834, 10, p. 1988-1997 10 p.

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

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

Molecular-Scale Ligand Effects in Small Gold-Thiolate Nanoclusters

Chevrier, D. M., Raich, L., Rovira, C., Das, A., Luo, Z., Yao, Q., Chatt, A., Xie, J., Jin, R., Akola, J. & Zhang, P., 14 Nov 2018, In : *Journal of the American Chemical Society*. 140, 45, p. 15430-15436 7 p.

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

Molekuly a ionty v pohybu: Počítačové simulace biochemických a biofyzikálních procesů

Translated title of the contribution: : Molecules and ions in motion: Computer simulations of biochemical and biophysical processes

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

Multifunctional nitrogen sulfur co-doped reduced graphene oxide – Ag nano hybrids (sphere, cube and wire) for nonlinear optical and SERS applications

Nair, A. K., Bhavitha, K. B., Perumbilavil, S., Sankar, P., Rouxel, D., Kala, M. S., Thomas, S. & Kalarikkal, N., 1 Jun 2018, In : *Carbon*. 132, p. 380-393 14 p.

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

Multiphoton Excitation of CsPbBr₃ Perovskite Quantum Dots (PQDs): How Many Electrons Can One PQD Donate to Multiple Molecular Acceptors?

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Multiresonant High-Q Plasmonic Metasurfaces

Reshef, O., Saad-Bin-Alam, M., Huttunen, M. J., Carlow, G., Sullivan, B. T., Ménard, J. M., Dolgaleva, K. & Boyd, R. W., 11 Sep 2019, In : *Nano Letters*. 19, 9, p. 6429-6434 6 p.

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

Multistep reactions of water with small Pd_n clusters: A first principles study

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Mutational spectra of Salmonella typhimurium revertants induced by chlorohydroxyfuranones, byproducts of chlorine disinfection of drinking water

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Nanoindentation study of light-induced softening of supramolecular and covalently functionalized azo polymers

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

Natural thermal adaptation increases heat shock protein levels and decreases oxidative stress

Oksala, N. K. J., Ekmekçi, F. G., Özsoy, E., Kirankaya, Ş., Kokkola, T., Emecen, G., Lappalainen, J., Kaarniranta, K. & Atalay, M., 1 Jan 2014, In : REDOX BIOLOGY. 3, p. 25-28 4 p.

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Nematicon-enhanced spontaneous symmetry breaking

Piccardi, A., Alberucci, A., Kravets, N., Buchnev, O. & Assanto, G., 24 May 2017, In : Molecular Crystals and Liquid Crystals. 649, 1, p. 59-65 7 p.

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

Nematicons in azobenzene liquid crystals

Serak, S. V., Tabiryan, N. V. & Assanto, G., 19 Jul 2012, In : Molecular Crystals and Liquid Crystals. 559, p. 202-213 12 p.

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Networking of ionic liquid modified CNTs in SSBR

Subramaniam, K., Das, A., Simon, F. & Heinrich, G., Feb 2013, In : European Polymer Journal. 49, 2, p. 345-352 8 p.

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

Neutralized chimeric avidin binding at a reference biosensor surface

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New reports on anti-bacterial and anti-candidal activities of fatty acid methyl esters (FAME) obtained from Scenedesmus bijugatus var. bicellularis biomass

Mubarakali, D., Praveenkumar, R., Shenbagavalli, T., Mari Nivetha, T., Parveez Ahamed, A., Al-Dhabi, N. A. & Thajuddin, N., 28 Nov 2012, In : RSC Advances. 2, 30, p. 11552-11556 5 p.

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

Nonlinear Optical Properties of Fluorescent Dyes Allow for Accurate Determination of Their Molecular Orientations in Phospholipid Membranes

Timr, Š., Brabec, J., Bondar, A., Ryba, T., Železný, M., Lazar, J. & Jungwirth, P., 30 Jul 2015, In : Journal of Physical Chemistry Part B. 119, 30, p. 9706-9716 11 p.

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Nonlinear transmittance and optical power limiting in magnesium ferrite nanoparticles: effects of laser pulsewidth and particle size

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Non-universal tracer diffusion in crowded media of non-inert obstacles

Ghosh, S. K., Cherstvy, A. G. & Metzler, R., 21 Jan 2015, In : Physical Chemistry Chemical Physics. 17, 3, p. 1847-1858 12 p.

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Novel derivatives of bacteriochlorophyll a: Complex formation with albumin and the mechanism of tumor cell photodamage
Akimova, A. V., Grin, M. A., Golovina, G. V., Kokrashvili, T. A., Vinogradov, A. M., Mironov, A. F., Rychkov, G. N., Shtil, A. A., Kuzmin, V. A. & Durandin, N. A., 2014, In : DOKLADY BIOCHEMISTRY AND BIOPHYSICS. 454, 1, p. 17-20 4 p.
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Numerical simulation of temperature distributions in layered structures during laser processing
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Observation of Coexistence of Yu-Shiba-Rusinov States and Spin-Flip Excitations
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On describing the optoelectronic characteristics of poly(benzodithiophene-: Co -quinoxaline)-fullerene complexes: The influence of optimally tuned density functionals
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Dehmer, M., Varmuza, K., Borgert, S. & Emmert-Streib, F., 27 Jul 2009, In : Journal of Chemical Information and Modeling. 49, 7, p. 1655-1663 9 p.
Research output: Contribution to journal > Article > Scientific > peer-review

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On the molecular optical nonlinearity of halogen-bond-forming azobenzenes
Virkki, M., Maurice, A., Forni, A., Sironi, M., Dichiarante, V., Brevet, P. F., Metrangolo, P., Kauranen, M. & Priimagi, A., 2018, In : Physical Chemistry Chemical Physics. 20, 45, p. 28810-28817 8 p.
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Research output: Contribution to journal > Article > Scientific > peer-review

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Phenothiazine and carbazole substituted pyrene based electroluminescent organic semiconductors for OLED devices

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Photochemistry of dithiophosphate $\text{Ni}(\text{S}_2\text{P}(\text{i-Bu})_2)_2$ complex in CCl_4 . Transient species and TD-DFT calculations

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Translated title of the contribution: : Fluorescence diagnosis and fluorescence-guided surgery

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Photoinduced Electron Injection from Zinc Phthalocyanines into Zinc Oxide Nanorods: Aggregation Effects

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Photoresponsive ionic liquid crystals assembled: Via halogen bond: En route towards light-controllable ion transporters

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Polarization resolved photoluminescence in GaAs_{1-x}Bi_x/GaAs quantum wells

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Positioning information privacy in intelligent transportation systems: An overview and future perspective

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Possible strategy to use differential mobility spectrometry in real time applications

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Quantification of bio-anode capacitance in bioelectrochemical systems using Electrochemical Impedance Spectroscopy

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Quantitative glycoproteomic analysis of optimal cutting temperature-embedded frozen tissues identifying glycoproteins associated with aggressive prostate cancer

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Rate constant and thermochemistry for $K + O_2 + N_2 = KO_2 + N_2$

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

Rate equation simulation of the height of Schottky barriers at the surface of oxidic semiconductors

Rantala, T. S., Lantto, V. & Rantala, T. T., 1993, In : *Sensors and Actuators B: Chemical*. 13, 1-3, p. 234-237 4 p.
Research output: Contribution to journal > Article > Scientific > peer-review

Rational design of a printable, highly conductive silicone-based electrically conductive adhesive for stretchable radio-frequency antennas

Li, Z., Le, T., Wu, Z., Yao, Y., Li, L., Tentzeris, M., Moon, K. S. & Wong, C. P., 21 Jan 2015, In : *Advanced Functional Materials*. 25, 3, p. 464-470 7 p.
Research output: Contribution to journal > Article > Scientific > peer-review

Reaction between Peroxy and Alkoxy Radicals Can Form Stable Adducts

Iyer, S., Rissanen, M. P. & Kurtén, T., 2 May 2019, In : *Journal of Physical Chemistry Letters*. 10, 9, p. 2051-2057 7 p.
Research output: Contribution to journal > Article > Scientific > peer-review

Recent twists in photoactuation and photoalignment control

Priimagi, A., Barrett, C. J. & Shishido, A., 21 Sep 2014, In : *Journal of Materials Chemistry C*. 2, 35, p. 7155-7162 8 p.
Research output: Contribution to journal > Article > Scientific > peer-review

Regeneration of sulfur-poisoned Pd-based catalyst for natural gas oxidation

Honkanen, M., Wang, J., Kärkkäinen, M., Huuhtanen, M., Jiang, H., Kallinen, K., Keiski, R. L., Akola, J. & Vippola, M., 2018, In : *Journal of Catalysis*. 358, p. 253-265 13 p.
Research output: Contribution to journal > Article > Scientific > peer-review

Reinforced chloroprene rubber by in situ generated silica particles: Evidence of bound rubber on the silica surface

Kapgate, B. P., Das, C., Das, A., Basu, D., Wiessner, S., Reuter, U. & Heinrich, G., 10 Aug 2016, In : *Journal of Applied Polymer Science*. 133, 30, 43717.
Research output: Contribution to journal > Article > Scientific > peer-review

Release of halide ions from the buried active site of the haloalkane dehalogenase LinB revealed by stopped-flow fluorescence analysis and free energy calculations

Hladilkova, J., Prokop, Z., Chaloupkova, R., Damborsky, J. & Jungwirth, P., 21 Nov 2013, In : *Journal of Physical Chemistry Part B*. 117, 46, p. 14329-14335 7 p.
Research output: Contribution to journal > Article > Scientific > peer-review

Remarkable Dependence of the Final Charge Separation Efficiency on the Donor-Acceptor Interaction in Photoinduced Electron Transfer

Higashino, T., Yamada, T., Yamamoto, M., Furube, A., Tkachenko, N. V., Miura, T., Kobori, Y., Jono, R., Yamashita, K. & Imahori, H., 2016, In : *Angewandte Chemie (International Edition)*. 55, 2, p. 629-633
Research output: Contribution to journal > Article > Scientific > peer-review

Responsive Polymer Photonics

Stumpel, J. E., 1 Aug 2015, In : *ChemistryOpen*. 4, 4, p. 533-535 3 p.
Research output: Contribution to journal > Article > Scientific > peer-review

Resveratrol interferes with the aggregation of membrane-bound human-IAPP: A molecular dynamics study

Lolicato, F., Raudino, A., Milardi, D. & La Rosa, C., 6 Mar 2015, In : *European Journal of Medicinal Chemistry*. 92, p. 876-881 6 p.
Research output: Contribution to journal > Article > Scientific > peer-review

Reversal of the Hofmeister series: Specific ion effects on peptides

Paterová, J., Rembert, K. B., Heyda, J., Kurra, Y., Okur, H. I., Liu, W. R., Hilty, C., Cremer, P. S. & Jungwirth, P., 11 Jul 2013, In : *Journal of Physical Chemistry Part B*. 117, 27, p. 8150-8158 9 p.
Research output: Contribution to journal > Article > Scientific > peer-review

Reversible biofunctionalization of surfaces with a switchable mutant of avidin

Pollheimer, P., Taskinen, B., Scherfler, A., Gusenkov, S., Creus, M., Wiesauer, P., Zauner, D., Schöfberger, W., Schwarzinger, C., Ebner, A., Tampé, R., Stutz, H., Hytönen, V. P. & Gruber, H. J., 16 Oct 2013, In : *Bioconjugate*

Chemistry. 24, 10, p. 1656-1668 13 p.

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

Reversible photodoping of TiO₂ nanoparticles

Joost, U., Sutka, A., Oja, M., Smits, K., Doebelin, N., Loot, A., Järvekülg, M., Hirsimäki, M., Valden, M. & Nommiste, E., 26 Dec 2018, In : Chemistry of Materials. 30, 24, p. 8968-8974

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

Robust statistical approaches for RSS-based floor detection in indoor localization

Razavi, A., Valkama, M. & Lohan, E. S., 1 Jun 2016, In : Sensors. 16, 6, 793.

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

Role of Internal Water on Protein Thermal Stability: The Case of Homologous G Domains

Rahaman, O., Kalimeri, M., Melchionna, S., Hénin, J. & Sterpone, F., 23 Jul 2015, In : Journal of Physical Chemistry Part B. 119, 29, p. 8939-8949 11 p.

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

Role of the bridge in photoinduced electron transfer in porphyrin-fullerene dyads

Pelado, B., Abou-Chahine, F., Calbo, J., Caballero, R., delaCruz, P., Junquera-Hernández, J. M., Ortí, E., Tkachenko, N. V. & Langa, F., 2015, In : Chemistry: A European Journal. 21, 15, p. 5814-5825 12 p.

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

Screening pretreatment methods to enhance thermophilic anaerobic digestion of pulp and paper mill wastewater treatment secondary sludge

Bayr, S., Kaparaju, P. & Rintala, J., 1 May 2013, In : Chemical Engineering Journal. 223, p. 479-486 8 p.

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

Search for global minimum geometries of medium sized Cd_nTe_n clusters (n = 15, 16, 20, 24 and 28)

Ma, L., Wang, J. & Wang, G., 12 Nov 2012, In : Chemical Physics Letters. 552, p. 73-77 5 p.

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

Searching for a robust strategy for minimizing alkali chlorides in fluidized bed boilers during burning of high SRF-energy-share fuel

Bajamundi, C. J. E., Vainikka, P., Hedman, M., Silvennoinen, J., Heinanen, T., Taipale, R. & Konttinen, J., 1 Sep 2015, In : Fuel. 155, p. 25-36 12 p.

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

Second-Harmonic Generation from Metal Nanoparticles: Resonance Enhancement versus Particle Geometry

Czaplicki, R., Mäkitalo, J., Siikanen, R., Husu, H., Lehtolahti, J., Kuittinen, M. & Kauranen, M., 14 Jan 2015, In : Nano Letters. 15, 1, p. 530-534 5 p.

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

Second-harmonic generation imaging of semiconductor nanowires with focused vector beams

Bautista, G., Mäkitalo, J., Chen, Y., Dhaka, V., Grasso, M., Karvonen, L., Jiang, H., Huttunen, M. J., Huhtio, T., Lipsanen, H. & Kauranen, M., 6 Feb 2015, In : Nano Letters. 15, 3, p. 1564-1569 6 p.

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

Selenate removal in biofilm systems: Effect of nitrate and sulfate on selenium removal efficiency, biofilm structure and microbial community

Tan, L. C., Espinosa-Ortiz, E. J., Nancharaiah, Y. V., van Hullebusch, E. D., Gerlach, R. & Lens, P. N., Aug 2018, In : Journal of Chemical Technology and Biotechnology. 93, 8, p. 2380-2389

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

Self-assembly of polystyrene-block-poly(4-vinylpyridine) block copolymer on molecularly functionalized silicon substrates: Fabrication of inorganic nanostructured etchmask for lithographic use

Cummins, C., Borah, D., Rasappa, S., Chaudhari, A., Ghoshal, T., O'Driscoll, B. M. D., Carolan, P., Petkov, N., Holmes, J. D. & Morris, M. A., 21 Dec 2013, In : Journal of Materials Chemistry C. 1, 47, p. 7941-7951 11 p.

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

Semiclassical hybrid approach to condensed phase molecular dynamics: Application to the I_2Kr_{17} cluster

Buchholz, M., Goletz, C. M., Grossmann, F., Schmidt, B., Heyda, J. & Jungwirth, P., 26 Nov 2012, In : Journal of Physical Chemistry A. 116, 46, p. 11199-11210 12 p.

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

Shape-dependent plasmonic response and directed self-assembly in a new semiconductor building block, indium-doped cadmium oxide (ICO)

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

Si10 and photoabsorption spectra of mid-sized silicon clusters

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Silver sulfide nanoclusters and the superatom model

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

Site-specific analysis of dipole polarizabilities of heterogeneous systems: Iron-doped Si_n ($n = 1-14$) clusters

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

Site-specific polarizabilities as predictors of favorable adsorption sites on Nan clusters

Ma, L., Jackson, K. A. & Jellinek, J., 8 Feb 2011, In : Chemical Physics Letters. 503, 1-3, p. 80-85 6 p.

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

Soft graphoepitaxy for large area directed self-assembly of polystyrene-block-poly(dimethylsiloxane) block copolymer on nanopatterned poss substrates fabricated by nanoimprint lithography

Borah, D., Rasappa, S., Salaun, M., Zellsman, M., Lorret, O., Liontos, G., Ntetsikas, K., Avgeropoulos, A. & Morris, M. A., 1 Jun 2015, In : Advanced Functional Materials. 25, 22, p. 3425-3432 8 p.

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

Soft-graphoepitaxy using nanoimprinted polyhedral oligomeric silsesquioxane substrates for the directed self-Assembly of PS-b-PDMS

Borah, D., Simao, C. D., Sentharamaikkannan, R., Rasappa, S., Francone, A., Lorret, O., Salaun, M., Kosmala, B., Kehagias, N., Zelsmann, M., Sotomayor-Torres, C. M. & Morris, M. A., Nov 2013, In : European Polymer Journal. 49, 11, p. 3512-3521 10 p.

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Soft hydrazone crosslinked hyaluronan- and alginate-based hydrogels as 3D supportive matrices for human pluripotent stem cell-derived neuronal cells

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

Solid-phase bromination and Suzuki coupling of 2-carboxyindoles

Tois, J., Franzén, R., Aitio, O., Laakso, I., Huuskonen, J. & Taskinen, J., 2001, In : Combinatorial Chemistry and High Throughput Screening. 4, 6, p. 521-524 4 p.

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Solvation and ion-pairing properties of the aqueous sulfate anion: Explicit versus effective electronic polarization

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

Sorption and retention of ethylene glycol monoethyl ether (EGME) on silicas

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

Spectral and kinetic characteristics of indotricarbocyanine complexation with albumin

Kuz'min, V. A., Durandin, N. A., Lisitsyna, E. S., Nekipelova, T. D., Podrugina, T. A., Matveeva, E. D., Proskurnina, M. V. & Zefirov, N. S., 28 May 2015, In : DOKLADY PHYSICAL CHEMISTRY. 462, 1, p. 107-109 3 p.

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Spectroscopic study of a DNA brush synthesized in situ by surface initiated enzymatic polymerization

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Spin filtering in silicene by edges and chemically or electrically induced interfaces

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

Lemounga, P. N., Yliniemi, J., Ismailov, A., Levänen, E., Tanskanen, P., Kinnunen, P., Roning, J. & Illikainen, M., 2019, (Accepted/In press) In : Minerals Engineering. 105843.

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

Spontaneous formation of three-dimensionally ordered Bi-rich nanostructures within GaAs_{1-x}Bi_x/GaAs quantum wells

Luna, E., Wu, M., Hanke, M., Puustinen, J., Guina, M. & Trampert, A., 1 Jul 2016, In : Nanotechnology. 27, 32, 325603.

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

Stability and Function at High Temperature. What Makes a Thermophilic GTPase Different from Its Mesophilic Homologue

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

Stable carbon isotopic composition of peat columns, subsoil and vegetation on natural and forestry-drained boreal peatlands

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Start-up and Operation of Laboratory-Scale Thermophilic Upflow Anaerobic Sludge Blanket Reactors Treating Vegetable Processing Wastewaters

Lepistö, S. S. & Rintala, J. A., Mar 1997, In : Journal of Chemical Technology and Biotechnology. 68, 3, p. 331-339 9 p.

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Statistical evaluation of barkhausen noise testing (BNT) for ground samples

Tomkowski, R., Sorsa, A., Santa-Aho, S., Lundin, P. & Vippola, M., 1 Nov 2019, In : Sensors (Switzerland). 19, 21, 4716.

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Steric and electronic effects in the host-guest hydrogen bonding in clathrate hydrates

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

Stimuli-Responsive Materials Based on Interpenetrating Polymer Liquid Crystal Hydrogels

Stumpel, J. E., Gil, E. R., Spoelstra, A. B., Bastiaansen, C. W. M., Broer, D. J. & Schenning, A. P. H. J., 2015, In : *Advanced Functional Materials*. 25, 22, p. 3314–3320

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

Strain rate change tests with the Split Hopkinson Bar method

Isakov, M., Kokkonen, J., Östman, K. & Kuokkala, V-T., 1 Apr 2016, In : *European Physical Journal. Special Topics*. 225, 2, p. 231-242

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

Strategies To Diminish the Emissions of Particles and Secondary Aerosol Formation from Diesel Engines

Karjalainen, P., Rönkkö, T., Simonen, P., Ntziachristos, L., Juuti, P., Timonen, H., Teinilä, K., Saarikoski, S., Saveljeff, H., Lauren, M., Happonen, M., Matilainen, P., Maunula, T., Nuottimäki, J. & Keskinen, J., 3 Sep 2019, In : *Environmental science & technology*. 53, 17, p. 10408-10416 9 p.

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

Structural basis of actin monomer re-charging by cyclase-Associated protein

Kotila, T., Kogan, K., Enkavi, G., Guo, S., Vattulainen, I., Goode, B. L. & Lappalainen, P., 1 Dec 2018, In : *Nature Communications*. 9, 1, 1892.

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

Structural characteristics and flammability of fire retarding EPDM/layered double hydroxide (LDH) nanocomposites

Wang, D. Y., Das, A., Leuteritz, A., Mahaling, R. N., Jehnichen, D., Wagenknecht, U. & Heinrich, G., 21 Apr 2012, In : *RSC Advances*. 2, 9, p. 3927-3933 7 p.

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

Structural information content of networks: Graph entropy based on local vertex functionals

Dehmer, M. & Emmert-Streib, F., Apr 2008, In : *Computational Biology and Chemistry*. 32, 2, p. 131-138 8 p.

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

Structurally Controlled Dynamics in Azobenzene-Based Supramolecular Self-Assemblies in Solid State

Poutanen, M., Ikkala, O. & Priimägi, A., 14 Jun 2016, In : *Macromolecules*. 49, 11, p. 4095-4101 7 p.

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

Structure, dynamics, and reactivity of hydrated electrons by Ab initio molecular dynamics

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

Study of the kinetics and mechanism of rapid self-assembly in block copolymer thin films during solvo-microwave annealing

Mokarian-Tabari, P., Cummins, C., Rasappa, S., Simao, C., Torres, C. M. S., Holmes, J. D. & Morris, M. A., 2014, In : *Langmuir*. 30, 35, p. 10728-10739 12 p.

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

Submolecular Plasticization Induced by Photons in Azobenzene Materials

Vapaavuori, J., Laventure, A., Bazuin, C. G., Lebel, O. & Pellerin, C., 28 Oct 2015, In : *Journal of the American Chemical Society*. 137, 42, p. 13510-13517 8 p.

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

Sulfonated polyetheretherketone/polypropylene polymer blends for the production of photoactive materials

Fatarelle, E., Mylläri, V., Ruzzante, M., Pogni, R., Baratto, M. C., Skrifvars, M., Syrjälä, S. & Järvelä, P., 1 Feb 2015, In : *Journal of Applied Polymer Science*. 132, 8, 41509.

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Superatom Model for Ag-S Nanocluster with Delocalized Electrons

Goh, J. Q. & Akola, J., 10 Sep 2015, In : Journal of Physical Chemistry C. 119, 36, p. 21165-21172 8 p.
Research output: Contribution to journal > Article > Scientific > peer-review

Supercritical carbon dioxide treatment of hot dip galvanized steel as a surface treatment before coating

Saarimaa, V., Kaleva, A., Nikkanen, J-P., Heinonen, S., Levänen, E., Väisänen, P., Markkula, A. & Juhanoja, J., 15 Dec 2017, In : Surface and Coatings Technology. 331, p. 137-142 6 p.
Research output: Contribution to journal > Article > Scientific > peer-review

Superfluorinated Ionic Liquid Crystals Based on Supramolecular, Halogen-Bonded Anions

Cavallo, G., Terraneo, G., Monfredini, A., Saccone, M., Priimägi, A., Pilati, T., Resnati, G., Metrangolo, P. & Bruce, D. W., 2016, In : Angewandte Chemie (International Edition). 55, 21, p. 6300-6304
Research output: Contribution to journal > Article > Scientific > peer-review

Superquenching of SYBRGreen dye fluorescence in complex with DNA by gold nanoparticles

Lisitsyna, E. S., Lygo, O. N., Durandin, N. A., Dement'eva, O. V., Rudoi, V. M. & Kuzmin, V. A., Nov 2012, In : HIGH ENERGY CHEMISTRY. 46, 6, p. 363-367 5 p.
Research output: Contribution to journal > Article > Scientific > peer-review

Supramolecular control of liquid crystals by doping with halogen-bonding dyes

Vapaavuori, J., Siiskonen, A., Dichiarante, V., Forni, A., Saccone, M., Pilati, T., Pellerin, C., Shishido, A., Metrangolo, P. & Priimägi, A., 2017, In : RSC Advances. 7, 64, p. 40237-40242 6 p.
Research output: Contribution to journal > Article > Scientific > peer-review

Supramolecular hierarchy among halogen and hydrogen bond donors in light-induced surface patterning

Saccone, M., Dichiarante, V., Forni, A., Goulet-Hanssens, A., Cavallo, G., Vapaavuori, J., Terraneo, G., Barrett, C. J., Resnati, G., Metrangolo, P. & Priimägi, A., 28 Jan 2015, In : Journal of Materials Chemistry C. 3, p. 759-768 10 p.
Research output: Contribution to journal > Article > Scientific > peer-review

Surface behavior of hydrated guanidinium and ammonium ions: A comparative study by photoelectron spectroscopy and molecular dynamics

Werner, J., Wernersson, E., Ekholm, V., Ottosson, N., Öhrwall, G., Heyda, J., Persson, I., Söderström, J., Jungwirth, P. & Björneholm, O., 26 Jun 2014, In : Journal of Physical Chemistry Part B. 118, 25, p. 7119-7127 9 p.
Research output: Contribution to journal > Article > Scientific > peer-review

Surface properties and interaction forces of biopolymer-doped conductive polypyrrole surfaces by atomic force microscopy

Pelto, J. M., Haimi, S. P., Siljander, A. S., Miettinen, S. S., Tappura, K. M., Higgins, M. J. & Wallace, G. G., 21 May 2013, In : Langmuir. 29, 20, p. 6099-6108 10 p.
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Surface relaxation of the (1010) face of wurtzite CdS

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Surface-relief gratings and stable birefringence inscribed using light of broad spectral range in supramolecular polymer-bisazobenzene complexes

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

Switchavidin: Reversible biotin-avidin-biotin bridges with high affinity and specificity

Taskinen, B., Zauner, D., Lehtonen, S. I., Koskinen, M., Thomson, C., Kähkönen, N., Kukkurainen, S., Määttä, J. A. E., Ihalainen, T. O., Kulomaa, M. S., Gruber, H. J. & Hytönen, V. P., 17 Dec 2014, In : Bioconjugate Chemistry. 25, 12, p.

2233-2243 11 p.

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Synthesis and Photophysical Properties of Two Diazaporphyrin-Porphyrin Hetero Dimers in Polar and Nonpolar Solutions
Abou-Chahine, F., Fujii, D., Imahori, H., Nakano, H., Tkachenko, N. V., Matano, Y. & Lemmetyinen, H., 18 Jun 2015, In : Journal of Physical Chemistry Part B. 119, 24, p. 7328-7337 10 p.

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Synthesis and study of electrochemical and optical properties of substituted perylenemonoimides in solutions and on solid surfaces

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

Synthesis, characterization and solid-state photoluminescence studies of six alkoxy phenylene ethynylene dinuclear palladium(ii) rods

Figueira, J., Czardybon, W., Mesquita, J. C., Rodrigues, J., Lahoz, F., Russo, L., Valkonen, A. & Rissanen, K., 7 Mar 2015, In : DALTON TRANSACTIONS. 44, 9, p. 4003-4015 13 p.

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

Synthesis, crystal structure, physico-chemical characterization and dielectric properties of a new hybrid material, 1-Ethylpiperazine-1,4-dium tetrachlorocadmate

Dhieb, A. C., Valkonen, A., Rzaigui, M. & Smirani, W., 15 Dec 2015, In : Journal of Molecular Structure. 1102, p. 50-56 7 p.

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

Synthesis, crystal structure, spectral, dielectric characteristics and conduction mechanism of two novel carboxylates of 1-benzhydrylpiperazine

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Synthesis of 6,12-disubstituted methanodibenzo[b,f][1,5]dioxocins: Pyrrolidine catalyzed self-condensation of 2'-Hydroxyacetophenones

Assoah, B., Riihonen, V., Vale, J. R., Valkonen, A. & Candeias, N. R., 2019, In : Molecules. 24, 13, 2405.

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Synthesis of chlorinated 5-hydroxy 4-methyl-2(5H)-furanones and mucochloric acid

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

Synthesis of fluorescent naphthoquinolizines via intramolecular houben-hoesch reaction

Stasyuk, A. J., Smoleń, S., Glodkowska-Mrowka, E., Brutkowski, W., Cyrański, M. K., Tkachenko, N. & Gryko, D. T., 2015, In : Chemistry - An Asian Journal. 10, 3, p. 553-558 6 p.

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

Synthesis, Structural Characterization, Hirshfeld Surface and Antioxidant Activity Analysis of a Novel Organic Cation Antimonate Complex

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

Systematic analysis of coating-substrate interactions in the presence of flow localization

Isakov, M., Matikainen, V., Koivuluoto, H. & May, M., 15 Sep 2017, In : Surface and Coatings Technology. 324, p. 264-280 17 p.

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

Tailoring Second-Harmonic Emission from (111)-GaAs Nanoantennas

Sautter, J. D., Xu, L., Miroshnichenko, A. E., Lysevych, M., Volkovskaya, I., Smirnova, D. A., Camacho-Morales, R., Zangeneh Kamali, K., Karouta, F., Vora, K., Tan, H. H., Kauranen, M., Staude, I., Jagadish, C., Neshev, D. N. & Rahmani, M., 12 Jun 2019, In : Nano Letters. 19, 6, p. 3905-3911 7 p.

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

Temperature scanning stress relaxation behavior of water responsive and mechanically adaptive elastomer nanocomposites

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

Temperature scanning stress relaxation of an autonomous self-healing elastomer containing non-covalent reversible network junctions

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

The Discovery of Compounds That Stimulate the Activity of Kallikrein-Related Peptidase3 (KLK3)

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

The effect of lipid oxidation on the water permeability of phospholipids bilayers

Lis, M., Wizert, A., Przybylo, M., Langner, M., Swiatek, J., Jungwirth, P. & Cwiklik, L., 21 Oct 2011, In : Physical Chemistry Chemical Physics. 13, 39, p. 17555-17563 9 p.

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

The effects of calcium and potassium on CO₂ gasification of birch wood in a fluidized bed

Kramb, J., Gómez-Barea, A., DeMartini, N., Romar, H., Doddapaneni, T. R. K. C. & Kontinen, J., 15 May 2017, In : Fuel. 196, p. 398-407 10 p.

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

The electrooxidation-induced structural changes of gold di-superatomic molecules: Au₂₃ vs. Au₂₅

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The formation and physical properties of the particle emissions from a natural gas engine

Alanen, J., Saukko, E., Lehtoranta, K., Murtonen, T., Timonen, H., Hillamo, R., Karjalainen, P., Kuuluvainen, H., Harra, J., Keskinen, J. & Rönkkö, T., 15 Dec 2015, In : Fuel. 162, p. 155-161 7 p.

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The Halogen Bond in the Design of Functional Supramolecular Materials: Recent Advances

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The Hosoya entropy of graphs revisited

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

The Influence of Phosphorus Exposure on a Natural-Gas-Oxidation Catalyst

Kärkkäinen, M., Kollari, T., Honkanen, M., Heikkinen, O., Väliheikki, A., Huuhtanen, M., Kallinen, K., Lahtinen, J., Vippola, M. & Keiski, R. L., 1 Jul 2016, In : Topics in Catalysis. 59, 10-12, p. 1044-1048 5 p.

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The maximum Hosoya index of unicyclic graphs with diameter at most four

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

Thermal desorption of molecular oxygen from SnO₂ (110) surface: Insights from first-principles calculations

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Thermal Isomerization of Hydroxyazobenzenes as a Platform for Vapor Sensing

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

The role of linked phospholipids in the rubber-filler interaction in carbon nanotube (CNT) filled natural rubber (NR) composites

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

The Role of Temperature and Lipid Charge on Intake/Uptake of Cationic Gold Nanoparticles into Lipid Bilayers

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Time-resolved fluorescence methods (IUPAC technical report)

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Time-Resolved Fluorescence Spectroscopy Reveals Fine Structure and Dynamics of Poly(L-lysine) and Polyethylenimine Based DNA Polyplexes

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Towards universal enrichment nanocoating for IR-ATR waveguides

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Transforming anion instability into stability: Contrasting photoionization of three protonation forms of the phosphate ion upon moving into water

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Tribocorrosion behaviour of aluminium bronze in 3.5 wt.% NaCl solution

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Tribology of HVOF- and HVOF-sprayed WC-10Co4Cr hardmetal coatings: A comparative assessment

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Tri-functionality of Fe₃O₄-embedded carbon microparticles in microalgae harvesting

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Tube-like natural halloysite/fluoroelastomer nanocomposites with simultaneous enhanced mechanical, dynamic mechanical and thermal properties

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Tuning of nonlinear absorption in highly luminescent CdSe based quantum dots with core-shell and core/multi-shell architectures

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Tuning PDMS brush chemistry by UV-O₃ exposure for PS-b-PDMS microphase separation and directed self-assembly

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Ultrasound-assisted extraction in the determination of arsenic, cadmium, copper, lead, and silver in contaminated soil samples by inductively coupled plasma atomic emission spectrometry

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Unintentional boron contamination of MBE-grown GaInP/AlGaInP quantum wells

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Upconversion from fluorophosphate glasses prepared with NaYF₄:Er³⁺, Yb³⁺ nanocrystals

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UPS and DFT investigation of the electronic structure of gas-phase trimesic acid

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Urea and guanidinium induced denaturation of a Trp-cage miniprotein

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UV-Blocking Synthetic Biopolymer from Biomass-Based Bifuran Diester and Ethylene Glycol

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Van der Waals interactions are critical in Car-Parrinello molecular dynamics simulations of porphyrin-fullerene dyads

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Vegetable fillers for electric stimuli responsive elastomers

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Volatile fatty acid adsorption on anion exchange resins: kinetics and selective recovery of acetic acid

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Water-Responsive and Mechanically Adaptive Natural Rubber Composites by in Situ Modification of Mineral Filler Structures

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Wet etching of dilute nitride GaInNAs, GaInNAsSb, and GaNAsSb alloys lattice-matched to GaAs

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