

Lubricated icephobic coatings prepared by flame spraying with hybrid feedstock injection

The effect of substrate pre-treatment on durability of rubber-stainless steel adhesion

Fusionsense

Emotion classification using feature fusion of multimodal data and deep learning in a brain-inspired spiking neural network

Tail-Oxidized Cholesterol Enhances Membrane Permeability for Small Solutes

Formation of corrosion products on zinc in wet supercritical and subcritical CO₂
In-situ spectroscopic study

The role of symmetry in the aesthetics of residential building façades using cognitive science methods

ClothFace

A Batteryless RFID-Based Textile Platform for Handwriting Recognition

The C-I⁻⋯O-N⁺ Halogen Bonds with Tetraiodoethylene and Aromatic N-Oxides

Design principles for non-reciprocal photomechanical actuation

Nucleation and growth behavior of Er³⁺ doped oxyfluorophosphate glasses

Selective hydrogen production at Pt(111) investigated by Quantum Monte Carlo methods for metal catalysis

Additive manufacturing of monolithic supercapacitors with biopolymer separator

On the alignment of ZnO nanowires by Langmuir – Blodgett technique for sensing application

Molecular Docking Studies of Royleanone Diterpenoids from *Plectranthus* spp. as P-Glycoprotein Inhibitors

Physical Characteristics of Particle Emissions from a Medium Speed Ship Engine Fueled with Natural Gas and Low-Sulfur Liquid Fuels

Rotational Diffusion of Membrane Proteins in Crowded Membranes

The effect of start-up on energy recovery and compositional changes in brewery wastewater in bioelectrochemical systems

Host-Guest Interactions of Sodiumsulfonatomethylenesorcinarene and Quaternary Ammonium Halides
An Experimental-Computational Analysis of the Guest Inclusion Properties

Photostable orange-red fluorescent unsymmetrical diketopyrrolopyrrole-BF₂ hybrids

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

Sequential Collinear Photofragmentation and Atomic Absorption Spectroscopy for Online Laser Monitoring of Triatomic Metal Species

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

Monitoring Charge Carrier Diffusion across a Perovskite Film with Transient Absorption Spectroscopy

Effect of tungsten and selenium on C_1 gas bioconversion by an enriched anaerobic sludge and microbial community analysis

Compounding and characterization of recycled multilayer plastic films

Taste compound – Nanocellulose interaction assessment by fluorescence indicator displacement assay

Hematite Surface Modification toward Efficient Sunlight-Driven Water Splitting Activity
The Role of Gold Nanoparticle Addition

Influence of powder properties on residual stresses formed in high-pressure liquid fuel HVOF sprayed WC-CoCr coatings

Non-radiative decay and fragmentation in water molecules after 1 a 1-1 4 a 1 excitation and core ionization studied by electron-energy-resolved electron-ion coincidence spectroscopy

Comparison and impact of different fiber debond techniques on fiber reinforced flexible composites

Experimental study on axially loaded square hollow section T-joints under fire conditions

High-resolution analysis of the ν_3 band of radiocarbon methane $^{14}CH_4$

Ultrafast Photochemistry of the $[Cr(NCS)_6]^{3-}$ Complex in Dimethyl Sulfoxide and Dimethylformamide upon Excitation into Ligand-Field Electronic State

Efficient Conversion of Light to Chemical Energy
Directional, Chiral Photoswitches with Very High Quantum Yields

Modelling of a pressure swing adsorption unit by deep learning and artificial Intelligence tools

Fast Switching of Bright Whiteness in Channeled Hydrogel Networks

A concise synthesis of carbasugars isolated from *Streptomyces lincolnensis*

Bringing a Molecular Plus One
Synergistic Binding Creates Guest-Mediated Three-Component Complexes

A bifacial colour-tunable system via combination of a cholesteric liquid crystal network and hydrogel

Modification of Surface States of Hematite-Based Photoanodes by Submonolayer of TiO_2 for Enhanced Solar Water Splitting

Recovery characteristics of different tube materials in relation to combustion products

Photo-oxidation of Aromatic Hydrocarbons Produces Low-Volatility Organic Compounds

Kinetics and modelling of thiosulphate biotransformations by haloalkaliphilic Thioalkalivibrio versutus

Energy dissipation in natural rubber latex films
The effect of stabilizers, leaching and acetone-treatment

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

A modular brain-on-a-chip for modelling epileptic seizures with functionally connected human neuronal networks

ILC1 drive intestinal epithelial and matrix remodelling

Environmental monitoring with distributed mesh networks
An overview and practical implementation perspective for urban scenario

Programmable responsive hydrogels inspired by classical conditioning algorithm

Key drivers of cloud response to surface-active organics

The role of highly oxygenated organic molecules in the Boreal aerosol-cloud-climate system

Spectral object recognition in hyperspectral holography with complex-domain denoising

Nanocluster Aerosol Emissions of a 3D Printer

Molecular Composition and Volatility of Nucleated Particles from α -Pinene Oxidation between $-50\text{ }^{\circ}\text{C}$ and $+25\text{ }^{\circ}\text{C}$

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

Controlled Orientations of Neighboring Tetracene Units by Mixed Self-Assembled Monolayers on Gold Nanoclusters for High-Yield and Long-Lived Triplet Excited States through Singlet Fission

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

Multiresonant High-Q Plasmonic Metasurfaces

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

Porous polybutylene succinate films enabling adhesion of human embryonic stem cell-derived retinal pigment epithelial cells (hESC-RPE)

Behavior of the DPH fluorescence probe in membranes perturbed by drugs

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

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

Chlorine induced high-temperature corrosion mechanisms in HVOF and HVOF sprayed Cr_3C_2 -based hardmetal coatings

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

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

Erosion wear performance of WC-10Co4Cr and Cr_3C_2 -25NiCr coatings sprayed with high-velocity thermal spray processes

Observation of Coexistence of Yu-Shiba-Rusinov States and Spin-Flip Excitations

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Pyrolytic behavior of lignocellulosic-based polysaccharides

Crystalline Wax Esters Regulate the Evaporation Resistance of Tear Film Lipid Layers Associated with Dry Eye Syndrome

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

Epitaxial phases of high Bi content GaSbBi alloys

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

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

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

Correlation of Surface Morphology and Interfacial Adhesive Behavior between Cellulose Surfaces
Quantitative Measurements in Peak-Force Mode with the Colloidal Probe Technique

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

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

Reaction between Peroxy and Alkoxy Radicals Can Form Stable Adducts

Energy-dependent diffusion in a soft periodic Lorentz gas

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

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

Mass balance control of crushing circuits

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

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

Hydrolysis and drug release from poly(ethylene glycol)-modified lactone polymers with open porosity

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

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

The Devil Is in the Details
What Do We Really Track in Single-Particle Tracking Experiments of Diffusion in Biological Membranes?

Kinetics and thermochemistry of the reaction of 3-methylpropargyl radical with molecular oxygen

A Pentacene-based Nanotube Displaying Enriched Electrochemical and Photochemical Activities

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

O₂-requiring molecular reporters of gene expression for anaerobic microorganisms

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

Low-dimensional formamidinium lead perovskite architectures via controllable solvent intercalation

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

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

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

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

Possible strategy to use differential mobility spectrometry in real time applications

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

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

Exclusive occurrence of photoinduced energy transfer and switching of its direction by rectangular π -extension of nanographenes

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

The Hosoya entropy of graphs revisited

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

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

Synergistic Computational-Experimental Discovery of Highly Selective PtCu Nanocluster Catalysts for Acetylene Semihydrogenation

How well can we predict cluster fragmentation inside a mass spectrometer?

Reversible photodoping of TiO₂ nanoparticles

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

Experimental moment resistance of rectangular hollow section T joints

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

Beaming random lasers with soliton control

Machine learning plastic deformation of crystals

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

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

Machine learning analysis of extreme events in optical fibre modulation instability

High Nitrogen Removal in a Constructed Wetland Receiving Treated Wastewater in a Cold Climate

High-Yield Generation of Triplet Excited States by an Efficient Sequential Photoinduced Process from Energy Transfer to Singlet Fission in Pentacene-Modified CdSe/ZnS Quantum Dots

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

Molecular-Scale Ligand Effects in Small Gold-Thiolate Nanoclusters

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

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

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

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

Electro-concentration for chemical-free nitrogen capture as solid ammonium bicarbonate

A compact olfactometer for IMS measurements and testing human perception

Effects of pyrolysis temperature on the hydrologically relevant porosity of willow biochar

Photoinduced Energy Transfer in ZnCdSeS Quantum Dot-Phthalocyanines Hybrids

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

Design aspects of all atomic layer deposited TiO₂-Fe₂O₃ scaffold-absorber photoanodes for water splitting

High Bending-Mode Sensitivity of Printed Piezoelectric Poly(vinylidene fluoride- co-trifluoroethylene) Sensors

Pectin and Mucin Enhance the Bioadhesion of Drug Loaded Nanofibrillated Cellulose Films

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

Evaluation of dry electrodes in canine heart rate monitoring

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A Ceramide-Regulated Element in the Late Endosomal Protein LAPTM4B Controls Amino Acid Transporter Interaction

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

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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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General mechanism and new drug design paradigm

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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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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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Pot-economy autooxidative condensation of 2-Aryl-2-lithio-1,3-dithianes

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

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

Controlled Growth of Supported ZnO Inverted Nanopyramids with Downward Pointing Tips

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Convenient extraction method for quantification of thin zinc patina layers

Gloriosa superba Mediated Synthesis of Platinum and Palladium Nanoparticles for Induction of Apoptosis in Breast Cancer

A Bioscreening Technique for Ultraviolet Irradiation Protective Natural Substances

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

On the molecular optical nonlinearity of halogen-bond-forming azobenzenes

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

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

Oxygen and water vapor transmission rates of starch-poly(vinyl alcohol) barrier coatings for flexible packaging paper

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Syntheses, characterization, and material properties

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Membrane Binding of Recoverin
From Mechanistic Understanding to Biological Functionality

Exhaust emissions of non-road mobile machine
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Configurational Disorder of Water Hydrogen-Bond Network at the Protein Dynamical Transition

Vegetable fillers for electric stimuli responsive elastomers

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Dynamics of a True Moving Bed separation process
Linear model identification and advanced process control

Long-Range Observation of Exciplex Formation and Decay Mediated by One-Dimensional Bridges

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

Geometric Structure and Chemical Ordering of Large AuCu Clusters
A Computational Study

Nematicon-enhanced spontaneous symmetry breaking

Density functional study of structure and dynamics in liquid antimony and Sb_n clusters

The effects of calcium and potassium on CO_2 gasification of birch wood in a fluidized bed

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Aggregation Effects

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Elucidation of Compression-Induced Surface Crystallization in Amorphous Tablets Using Sum Frequency Generation (SFG) Microscopy

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

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

Hierarchical Self-Assembly of Halogen-Bonded Block Copolymer Complexes into Upright Cylindrical Domains

Membrane cholesterol access into a G-protein-coupled receptor

Magnetic routing of light-induced waveguides

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

Polarization resolved photoluminescence in $\text{GaAs}_{1-x}\text{Bi}_x/\text{GaAs}$ quantum wells

Architectures and codecs for real-time light field streaming

Improved corrosion properties of Hot Dip Galvanized Steel by nanomolecular silane layers as hybrid interface between zinc and top coatings

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

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

High-resolution coded-aperture design for compressive X-ray tomography using low resolution detectors

Crystallization and sintering of borosilicate bioactive glasses for application in tissue engineering

Two cations, two mechanisms
Interactions of sodium and calcium with zwitterionic lipid membranes

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

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

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Collective excitations and viscosity in liquid Bi

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London Hybrid Exposure Model
Improving Human Exposure Estimates to NO₂ and PM_{2.5} in an Urban Setting

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Elimination of arsenic-containing emissions from gasification of chromated copper arsenate wood

Controlling the motion of multiple objects on a Chladni plate

Polyarginine Interacts More Strongly and Cooperatively than Polylysine with Phospholipid Bilayers

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

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Properties after repetitive processing

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Evidence of bound rubber on the silica surface

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Development of Magnetic Losses During Accelerated Corrosion Tests for Nd-Fe-B Magnets Used in Permanent Magnet Generators

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

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

Effect of Hole Transporting Material on Charge Transfer Processes in Zinc Phthalocyanine Sensitized ZnO Nanorods

Influence of heat treatment on the abrasive wear resistance of a $\text{Cr}_3\text{C}_2\text{NiCr}$ coating deposited by an ethene-fuelled HVOF spray process

Coordination networks incorporating halogen-bond donor sites and azobenzene groups

Strain rate change tests with the Split Hopkinson Bar method

DFT simulations and microkinetic modelling of 1-pentyne hydrogenation on Cu_{20} model catalysts

Microwave assisted laser-induced breakdown spectroscopy at ambient conditions

Metal chalcogenide quantum dots
Biotechnological synthesis and applications

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

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

HPLC-SEC
a new approach to characterise complex wastewater effluents

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

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Guanidinium Pairing Facilitates Membrane Translocation

Physical and Chemical Characterization of Real-World Particle Number and Mass Emissions from City Buses in Finland

Heat capacities of crystalline and glassy lithium metaphosphate up to the transition region

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Insights from first-principles calculations

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

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

The electrooxidation-induced structural changes of gold di-superatomic molecules
 Au_{23} vs. Au_{25}

Cholesterol oxidation products and their biological importance

High-Yield Excited Triplet States in Pentacene Self-Assembled Monolayers on Gold Nanoparticles through Singlet Exciton Fission

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

Fire-safe and environmentally friendly nanocomposites based on layered double hydroxides and ethylene propylene diene elastomer

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

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PIP2 and Talin Join Forces to Activate Integrin

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

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controllable synthesis, growth mechanism, and photocatalytic properties

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Influence of Hydrogen Plasma-Induced Disorder on the Electronic Structure and Photoelectrochemical Performance

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implications for testing and risk assessment

Effect of Phosphatidic Acid on Biomembrane
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Effect of non-rubber components

Responsive Polymer Photonics

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

High quality sub-10 nm graphene nanoribbons by on-chip PS-b-PDMS block copolymer lithography

Quantifying non-ergodic dynamics of force-free granular gases

Photoinduced Electron Transfer in CdSe/ZnS Quantum Dot-Fullerene Hybrids

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

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

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Measuring optical anisotropy in poly(3,4-ethylene dioxythiophene)
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surfaces

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On the biomaterials for nanostructured ocular therapeutics

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II. The obtaining of polymeric nanofibers

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A comparative assessment

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CO oxidation catalyzed by neutral and anionic Cu_2O clusters
Relationship between charge and activity

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

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

Crystal structure of 2-methylpiperazine-1,4-dium bis(hydrogen maleate)

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

Polymer looping is controlled by macromolecular crowding, spatial confinement, and chain stiffness

Neutralized chimeric avidin binding at a reference biosensor surface

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

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

Sulfonated polyetheretherketone/polypropylene polymer blends for the production of photoactive materials
Julkaisun otsikon käännös: : Sulfonated Polyetheretherketone/Polypropylene Polymer Blends for the Production of Photoactive Materials

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

Silver sulfide nanoclusters and the superatom model

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

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

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

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

Oxidation half-reaction of aqueous nucleosides and nucleotides via photoelectron spectroscopy augmented by ab initio calculations

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

Photophysical properties of Sn (IV)tetraphenylporphyrin-pyrene dyad with a β -vinyl linker

Perfluoro-1,1'-biphenyl and perfluoronaphthalene and their derivatives as π -acceptors for anions

A comparison of five optical surface topography measurement methods

Appropriate pricing policy needed worldwide for improving water services infrastructure

π -Expanded α,β -unsaturated ketones
Synthesis, optical properties, and two-photon-induced polymerization

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

Ballistic and numerical simulation of impacting goods on conveyor belt rubber

Synthesis of fluorescent naphthoquinolizines via intramolecular houben-hoesch reaction

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

Chemolithotrophic denitrification in biofilm reactors

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

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

Geometry controlled anomalous diffusion in random fractal geometries
Looking beyond the infinite cluster

Stimuli-Responsive Materials Based on Interpenetrating Polymer Liquid Crystal Hydrogels

Water-responsive dual-coloured photonic polymer coatings based on cholesteric liquid crystals

Coulomb explosion during the early stages of the reaction of alkali metals with water

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

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

DNA lesion can facilitate base ionization
Vertical ionization energies of aqueous 8-oxoguanine and its nucleoside and nucleotide

Time-resolved fluorescence methods (IUPAC technical report)

Processable aromatic polyesters based on bisphenol derived from cashew nut shell liquid synthesis and characterization

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

A supramolecular approach to photoresponsive thermo/solvoplastic block copolymer elastomers

Impact of selective catalytic reduction on exhaust particle formation over excess ammonia events

Global analysis of human nonreceptor tyrosine kinase specificity using high-density peptide microarrays

Rapid, Brushless Self-assembly of a PS-b-PDMS Block Copolymer for Nanolithography

Effect of head group size on the photoswitching applications of azobenzene Disperse Red 1 analogues

Pyrene based conjugated materials
Synthesis, characterization and electroluminescent properties

Density functional theory study of transition metals doped B₈₀ fullerene

Recent twists in photoactuation and photoalignment control

Optical spectroscopy of the bulk and interfacial hydrated electron from ab initio calculations

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

Effect of silane integrated sol-gel derived in situ silica on the properties of nitrile rubber

Molecular engineering of avidin and hydrophobin for functional self-assembling interfaces

Performance testing of iron based thermally sprayed HVOF coatings in a biomass-fired fluidised bed boiler

Accurate description of calcium solvation in concentrated aqueous solutions

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

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

Hydration of the chloride ion in concentrated aqueous solutions using neutron scattering and molecular dynamics

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

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

Light-fuelled transport of large dendrimers and proteins

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

Protein conformation as a regulator of cell-matrix adhesion

Deciphering the infrared spectrum of the protonated water pentamer and the hybrid Eigen-Zundel cation

Fabrication of ssDNA/oligo(ethylene glycol) monolayers by promoted exchange reaction with thiol and disulfide substituents

Azopolymer-based micro- and nanopatterning for photonic applications

Both zundel and eigen isomers contribute to the IR spectrum of the gas-phase H_9O_4^+ cluster

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

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

Direct observation of the collapse of the delocalized excess electron in water

A full-potential linearized augmented plane wave study of the interaction of CO_2 with $\alpha\text{-Pu}$ (020) surface nanolayers

Molekuly a ionty v pohybu
Počítačové simulace biochemických a biofyzikálních procesů

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

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

Novel derivatives of bacteriochlorophyll a
Complex formation with albumin and the mechanism of tumor cell photodamage

Fabrication of 3-D nanodimensioned electric double layer capacitor structures using block copolymer templates

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

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

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

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

Location of dispersing agent in rubber nanocomposites during mixing process

Proliferation and differentiation of adipose stem cells towards smooth muscle cells on poly(trimethylene carbonate) membranes

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

Human adipose stem cells in chondrogenic differentiation medium without growth factors differentiate towards annulus fibrosus phenotype in vitro

Fabrication of ssDNA/Oligo(ethylene glycol) monolayers and patterns by exchange reaction promoted by ultraviolet light irradiation

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

Ion pairing in aqueous lithium salt solutions with monovalent and divalent counter-anions

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

How conformational flexibility stabilizes the hyperthermophilic elongation factor G-domain

Embedded cluster models for reactivity of the hydrated electron

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

Porphyrim adsorbed on the (1010) surface of the wurtzite structure of ZnO-conformation induced effects on the electron transfer characteristics

Julkaisun otsikon käännös: : Porphyrim adsorbed on the (1010) surface of the wurtzite structure of ZnO - conformation induced effects on the electron transfer characteristics

Reversible biofunctionalization of surfaces with a switchable mutant of avidin

Importance of the ion-pair interactions in the OPEP coarse-grained force field
Parametrization and validation

Zinc coordination spheres in protein structures

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

Mechanisms of acceleration and retardation of water dynamics by ions

Irradiation promoted exchange reaction with disulfide substituents

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

Reversal of the Hofmeister series
Specific ion effects on peptides

Photoswitchable hydrogel surface topographies by polymerisation-induced diffusion

Development and characterization of poly(ϵ -caprolactone) hollow fiber membranes for vascular tissue engineering

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

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

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

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

Depth profiling of PLGA copolymer in a novel biomedical bilayer using confocal Raman spectroscopy

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

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

Immobilized bioactive agents onto polyurethane surface with heparin and phosphorylcholine group

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

Understanding the reinforcing behavior of expanded clay particles in natural rubber compounds

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

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

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

Optical vortex generation in nematic liquid crystal light valves

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

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

Chemically tailored dielectric-to-metal transition for the design of metamaterials from nanoimprinted colloidal nanocrystals

Growth behavior and magnetic properties of spherical uranium oxide nanoclusters

Density functional theory study of FePd_n ($n = 2-14$) clusters and interactions with small molecules

Networking of ionic liquid modified CNTs in SSBR

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

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

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

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

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

Peptide salt bridge stability
From gas phase via microhydration to bulk water simulations

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

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

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

Azobenzene photomechanics
Prospects and potential applications

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

Fabrication of ssDNA/oligo(ethylene glycol) monolayers and complex nanostructures by an irradiation-promoted exchange reaction

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

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

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

Effect of sol-gel derived in situ silica on the morphology and mechanical behavior of natural rubber and acrylonitrile butadiene rubber blends

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

Impact of biodiesel application at various blending ratios on passenger cars of different fueling technologies

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

Nematicons in azobenzene liquid crystals

Molecular mechanisms of ion-specific effects on proteins

Halogen bonding versus hydrogen bonding in driving self-assembly and performance of light-responsive supramolecular polymers

Behavior of 4-hydroxynonenal in phospholipid membranes

Elemental and mixed actinide dioxides
An ab initio study

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

Highly exfoliated natural rubber/Clay composites by "propping-open procedure"
The influence of fatty-acid chain length on exfoliation

Excited-state polarizability in crystalline sexithiophene
Charge-transfer and vibronic effects

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

Glycerol mediated synthesis of 5-substituted 1H-tetrazole under catalyst free conditions

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

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

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

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

Chasing charge localization and chemical reactivity following photoionization in liquid water

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

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

Effect of ionic liquid on dielectric, mechanical and dynamic mechanical properties of multi-walled carbon nanotubes/polychloroprene rubber composites

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