

Synthesis and Photophysical Properties of Two Diazaporphyrin-Porphyrin Hetero Dimers in Polar and Nonpolar Solutions

Photoresponsive liquid-crystalline polymer films bilayered with an inverse opal structure

The red, purple and blue modifications of polymeric unsymmetrical hydroxyalkadiynyl-N-arylcarbamate derivatives in Langmuir-Schaefer films

Stable blue phase polymeric Langmuir-Schaefer films based on unsymmetrical hydroxyalkadiynyl N-arylcarbamate derivatives

Guanidinium Pairing Facilitates Membrane Translocation

Additive manufacturing of monolithic supercapacitors with biopolymer separator

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

Rapid and sensitive detection of norovirus antibodies in human serum with a bilayer interferometry biosensor

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

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

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

Mechanical characterization of pore-graded bioactive glass scaffolds produced by robocasting

Unmodified LDH as reinforcing filler for XNBR and the development of flame-retardant elastomer composites

High-performance elastomeric strain sensors based on nanostructured carbon fillers for potential tire applications

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

Sliding and abrasive wear behaviour of HVOF- and HVOF-sprayed  $\text{Cr}_3\text{C}_2$ -NiCr hardmetal coatings

Tribology of FeVCoC coatings deposited by HVOF and HVOF thermal spray processes

Post operation inactivation of acidophilic bioleaching microorganisms using natural chloride-rich mine water

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

Near-threshold high spin amplification in a 1300 nm GaInNAs spin laser

Role of fracture toughness in impact-abrasion wear

Starch-poly(vinyl alcohol) barrier coatings for flexible packaging paper and their effects of phase interactions

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

Novel oxyfluorophosphate glasses and glass-ceramics

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

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

Preparation of zinc oxide free, transparent rubber nanocomposites using a layered double hydroxide filler

Naturally occurring amino acids

A suitable substitute of N-N'-di-phenyl guanidine (DPG) in silica tyre formulation?

Novel borosilicate bioactive scaffolds with persistent luminescence

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

Lubricated icephobic coatings prepared by flame spraying with hybrid feedstock injection

First principles prediction of the solar cell efficiency of chalcopyrite materials  $\text{AgMX}_2$  (M=In, Al; X=S, Se, Te)

Electronic transport in n-type modulation-doped AlGaAs/GaAsBi quantum well structures  
Influence of Bi and thermal annealing on electron effective mass and electron mobility

Power loss mechanisms in n-type modulation-doped AlGaAs/GaAsBi quantum well heterostructures

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

PEGylated liposomes as carriers of hydrophobic porphyrins

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

Stearate Modified Zinc-Aluminum Layered Double Hydroxides and Acrylonitrile Butadiene Rubber Nanocomposites

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

Structure and Dynamics of Thermosensitive pDNA Polyplexes Studied by Time-Resolved Fluorescence Spectroscopy

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

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

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

Damage mechanisms and cracking behavior of thermal sprayed WC-CoCr coating under scratch testing

HVOF process control enabling strategies

Towards universal enrichment nanocoating for IR-ATR waveguides

Better understanding of the role of  $\text{SiO}_2$ ,  $\text{P}_2\text{O}_5$  and  $\text{Al}_2\text{O}_3$  on the spectroscopic properties of  $\text{Yb}^{3+}$  doped silica sol-gel glasses

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

The effects of laser patterning 10CeTZP- $\text{Al}_2\text{O}_3$  nanocomposite disc surfaces  
Osseous differentiation and cellular arrangement in vitro

Optical properties of  $\text{GaAs}_{1-x}\text{Bi}_x/\text{GaAs}$  quantum well structures grown by molecular beam epitaxy on (100) and (311)B GaAs substrates

Effect of tempering on the impact-abrasive and abrasive wear resistance of ultra-high strength steels

Effect of prior austenite grain size on the abrasive wear resistance of ultra-high strength martensitic steels

Characteristics of carbide-free medium-carbon bainitic steels in high-stress abrasive wear conditions

Improved Stability of Atomic Layer Deposited Amorphous  $\text{TiO}_2$  Photoelectrode Coatings by Thermally Induced Oxygen Defects

Local Mechanical Properties at the Dendrite Scale of Ni-Based Superalloys Studied by Advanced High Temperature Indentation Creep and Micropillar Compression Tests

Printable and flexible macroporous organosilica film with high protein adsorption capacity

Photocatalytic and antibacterial properties of ZnO films with different surface topographies on stainless steel substrate

Investigation of long-term chemical stability of structured ZnO films in aqueous solutions of varying conditions

Aryl end-capped quaterthiophenes applied as anode interfacial layers in inverted organic solar cells

Urea and guanidinium induced denaturation of a Trp-cage miniprotein

Epitaxial phases of high Bi content GaSbBi alloys

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

Hydration of hydroxyl and amino groups examined by molecular dynamics and neutron scattering

Transparent Yb<sup>3+</sup> doped phosphate glass-ceramics

Dissolution behavior of the bioactive glass S53P4 when sodium is replaced by potassium, and calcium with magnesium or strontium

Aligned Poly( $\epsilon$ -caprolactone) Nanofibers Guide the Orientation and Migration of Human Pluripotent Stem Cell-Derived Neurons, Astrocytes, and Oligodendrocyte Precursor Cells In Vitro

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

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

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

Characterization of the microstructure and corrosion performance of Ce-alloyed Nd-Fe-B magnets

Influence of heat treatment on the abrasive wear resistance of a Cr<sub>3</sub>C<sub>2</sub>-NiCr coating deposited by an ethene-fuelled HVOF spray process

HVOF- and HVOF-Sprayed Cr<sub>3</sub>C<sub>2</sub>-NiCr Coatings Deposited from Feedstock Powders of Spherical Morphology Microstructure Formation and High-Stress Abrasive Wear Resistance Up to 800 °C

Improving the high temperature abrasion resistance of thermally sprayed Cr<sub>3</sub>C<sub>2</sub>-NiCr coatings by WC addition

Active packaging by paper coating

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

Rotational Diffusion of Membrane Proteins in Crowded Membranes

Compounding and characterization of recycled multilayer plastic films

Reversible photodoping of TiO<sub>2</sub> nanoparticles

Avoiding the initial adhesive friction peak in fretting

Chemical and bacterial leaching of metals from a smelter slag in acid solutions

Recent progress in biohydrometallurgy and microbial characterisation

How conformational flexibility stabilizes the hyperthermophilic elongation factor G-domain

Are coarse-grained models apt to detect protein thermal stability? the case of OPEP force field

Evaluation of crushing strength of spray-dried MgAl<sub>2</sub>O<sub>4</sub> granule beds

Chemical synthesis of WC-Co from water-soluble precursors  
The effect of carbon and cobalt additions to WC synthesis

Antibacterial polymer fibres by rosin compounding and melt-spinning

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

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

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

Mining tailings as raw materials for reaction-sintered aluminosilicate ceramics  
Effect of mineralogical composition on microstructure and properties

Mining tailings as a raw material for glass-bonded thermally sprayed ceramic coatings  
Microstructure and properties

Oxidation of cholesterol does not alter significantly its uptake into high-density lipoprotein particles

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

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

The effect of carbon and nickel additions on the precursor synthesis of Cr<sub>3</sub>C<sub>2</sub>-Ni nanopowder

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

Ultrafast Photochemistry of the [Cr(NCS)<sub>6</sub>]<sup>3-</sup> Complex in Dimethyl Sulfoxide and Dimethylformamide upon Excitation into Ligand-Field Electronic State

Characterization of High-Velocity Single Particle Impacts on Plasma-Sprayed Ceramic Coatings

Evaluating the toughness of APS and HVOF-sprayed Al<sub>2</sub>O<sub>3</sub>-ZrO<sub>2</sub>-coatings by in-situ- and macroscopic bending

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

Characterization of Powder-Precursor HVOF-Sprayed Al<sub>2</sub>O<sub>3</sub>-YSZ/ZrO<sub>2</sub> Coatings

Process Parameter Impact on Suspension-HVOF-Sprayed Cr<sub>2</sub>O<sub>3</sub> Coatings

Accurate description of calcium solvation in concentrated aqueous solutions

Novel Online Diagnostic Analysis for In-Flight Particle Properties in Cold Spraying

Cold-Sprayed Al6061 coatings

Online spray monitoring and influence of process parameters on coating properties

Calculated electronic density of states and structural properties of tetrahedral amorphous carbon

Both zundel and eigen isomers contribute to the IR spectrum of the gas-phase H<sub>9</sub>O<sub>4</sub><sup>+</sup> cluster

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

Effect of Phosphatidic Acid on Biomembrane

Experimental and Molecular Dynamics Simulations Study

Gas atomized thermal spray powders of various metals and alloys

Improved properties for packaging materials by nanoscale surface modification and ALD barrier coating

Effect of rubber polarity on selective wetting of carbon nanotubes in ternary blends

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

Detection of gaseous species during KCl-induced high-temperature corrosion by the means of CPFAAS and CI-API-TOF

Cold gas spraying of a high-entropy CrFeNiMn equiatomic alloy

Erosive wear of various stainless steel grades used as impeller blade materials in high temperature aqueous slurry

Erosion–corrosion resistance of various stainless steel grades in high-temperature sulfuric acid solution

Barkhausen noise response of three different welded duplex stainless steels

The effect of impact conditions on the wear and deformation behavior of wear resistant steels

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

Effect of the addition of Al<sub>2</sub>O<sub>3</sub>, TiO<sub>2</sub> and ZnO on the thermal, structural and luminescence properties of Er<sup>3+</sup>-doped phosphate glasses

Design, processing, and characterization of an optical core-bioactive clad phosphate fiber for biomedical applications

DFT simulations and microkinetic modelling of 1-pentyne hydrogenation on Cu<sub>20</sub> model catalysts

Membrane bound COMT isoform is an interfacial enzyme  
General mechanism and new drug design paradigm

Azobenzene photomechanics  
Prospects and potential applications

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

Vacancy-type defect distributions near argon sputtered Al(100) surface studied by variable-energy positrons and molecular dynamics simulations

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

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

Processing and characterization of phosphate glasses containing  $\text{CaAl}_2\text{O}_4:\text{Eu}^{2+}, \text{Nd}^{3+}$  and  $\text{SrAl}_2\text{O}_4:\text{Eu}^{2+}, \text{Dy}^{3+}$  microparticles

Crystallization mechanism of the bioactive glasses, 45S5 and S53P4

Sliding wear behaviour of HVOF and HVOF sprayed  $\text{Cr}_3\text{C}_2$ -based coatings

A Study of  $\text{Cr}_3\text{C}_2$ -Based HVOF- and HVOF-Sprayed Coatings  
Microstructure and Carbide Retention

Effect of nozzle geometry on the microstructure and properties of hvaf-sprayed  $\text{Wc-10Co4Cr}$  and  $\text{Cr}_3\text{C}_2\text{-25NiCr}$  coatings

Erosion wear performance of  $\text{WC-10Co4Cr}$  and  $\text{Cr}_3\text{C}_2\text{-25NiCr}$  coatings sprayed with high-velocity thermal spray processes

A study of  $\text{Cr}_3\text{C}_2$ -based HVOF- and HVOF-sprayed coatings  
Abrasion, dry particle erosion and cavitation erosion resistance

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

Quench absorption coils  
A quench protection concept for high-field superconducting accelerator magnets

Flip-chip Wafer-fused OP-VECSELS emitting 3.65 W at the 1.55- $\mu\text{m}$  waveband

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

Influence of the Spray Gun Type on Microstructure and Properties of HVOF Sprayed Fe-Based Corrosion Resistant Coatings

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

Microstructure and Sliding Wear Behavior of Fe-Based Coatings Manufactured with HVOF and HVOF Thermal Spray Processes

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

The 5th international workshop on numerical modelling of high temperature superconductors

The effects of UV irradiation to polyetheretherketone fibres  
Characterization by different techniques

Production of sulfonated polyetheretherketone/polypropylene fibers for photoactive textiles

A comparison of rheology and FTIR in the study of polypropylene and polystyrene photodegradation

Characterization of thermally aged polyetheretherketone fibres  
Mechanical, thermal, rheological and chemical property changes

Detergent impurity effect on recycled HDPE  
Properties after repetitive processing

Dielectric Breakdown Strength of Thermally Sprayed Ceramic Coatings  
Effects of Different Test Arrangements

Luminescence of  $\text{Er}^{3+}$  doped oxyfluoride phosphate glasses and glass-ceramics

Powering of an HTS dipole insert-magnet operated standalone in helium gas between 5 and 85 K

Effects of composition and microstructure on the abrasive wear performance of quenched wear resistant steels

Influence of the phosphate glass melt on the corrosion of functional particles occurring during the preparation of glass-ceramics

Effect of heat-treatment on the upconversion of  $\text{NaYF}_4:\text{Yb}^{3+}, \text{Er}^{3+}$  nanocrystals containing silver phosphate glass

Mechanical performance and  $\text{CO}_2$  uptake of ion-exchanged zeolite A structured by freeze-casting

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

Increased lifetime for biomass and waste to energy power plant boilers with HVOF coatings  
High temperature corrosion testing under chlorine-containing molten salt

Comparison of laboratory rolling-sliding wear tests with in-service wear of nodular cast iron rollers against wire ropes

Load capacity of lubricated bismuth bronze bimetal bearing under elliptical sliding motion

PIP2 and Talin Join Forces to Activate Integrin

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

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

Development in additive methods in aramid fiber surface modification to increase fiber-matrix adhesion  
A review

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

Reversal of the Hofmeister series  
Specific ion effects on peptides

Ab initio study of the surface properties of austenitic stainless steel alloys

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

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

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

Vegetable fillers for electric stimuli responsive elastomers

Phase-change material  
Natural rubber composites for heat storage applications

Effect of carbon nanotubes and nanodiamonds on the heat storage ability of natural rubber composites

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

Thermal Isomerization of Hydroxyazobenzenes as a Platform for Vapor Sensing

Exciton localization and structural disorder of GaAs<sub>1-x</sub>Bi<sub>x</sub>/GaAs quantum wells grown by molecular beam epitaxy on (311)B GaAs substrates

Recent twists in photoactuation and photoalignment control

Azopolymer-based micro- and nanopatterning for photonic applications

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

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

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

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

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

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

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

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

Block copolymer lithography  
Feature size control and extension by an over-etch technique

Solvent Welding and Imprinting Cellulose Nanofiber Films Using Ionic Liquids

Polyarginine Interacts More Strongly and Cooperatively than Polylysine with Phospholipid Bilayers

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

Preintercalation of an organic accelerator into nanogalleries and preparation of ethylene propylene diene terpolymer  
rubber-clay nanocomposites

Electromagnetic nonlinearities in a Roebel-cable-based accelerator magnet prototype  
Variational approach

Modelling thermodynamics in a high erature superconducting dipole magnet  
An inverse problem based approach

Effect of rheological properties of dissolved cellulose/microfibrillated cellulose blend suspensions on film forming

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

Convenient extraction method for quantification of thin zinc patina layers

Assessment of pitting corrosion in bare and passivated (wet scCO<sub>2</sub>-induced patination and chemical passivation) hot-dip  
galvanized steel samples with SVET, FTIR, and SEM (EDS)

Persistent luminescent particles containing bioactive glasses  
Prospect toward tracking in-vivo implant mineralization using biophotonic ceramics

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

Halogen bonding stabilizes a cis-azobenzene derivative in the solid state  
A crystallographic study

Ortho-Fluorination of azophenols increases the mesophase stability of photoresponsive hydrogen-bonded liquid crystals

Passive resonance sensor based method for monitoring particle suspensions

Non-destructive and wireless monitoring of biodegradable polymers

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

Infrared Thermography as a Non-destructive Testing Solution for Thermal Spray Metal Coatings

A study of electric transport in n- and p-type modulation-doped GaInNAs/GaAs quantum well structures under a high electric field

Abrasive-Erosive Wear of Thermally Sprayed Coatings from Experimental and Commercial  $\text{Cr}_3\text{C}_2$ -Based Powders

Erosive wear of filled vinyl ester composites in water and acidic media at elevated temperature

Properties of HVOF-sprayed Stellite-6 coatings

Improved electromechanical response in acrylic rubber by different carbon-based fillers

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

Effect of incorporation of CdS NPs on performance of PTB7  
PCBM organic solar cells

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

Low-dimensional formamidinium lead perovskite architectures via controllable solvent intercalation

Thermal, structural and optical properties of  $\text{Er}^{3+}$  doped phosphate glasses containing silver nanoparticles

Effect of melting state on the thermal shock resistance and thermal conductivity of APS  $\text{ZrO}_2$ -7.5wt.%  $\text{Y}_2\text{O}_3$  coatings

Fabrication and Characterization of Amorphous Alumina-Yttria-Stabilized Zirconia Coatings by Air Plasma Spraying

Thermally evaporated single-crystal Germanium on Silicon

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

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

Abrasion and compression resistance of liquid-flame-spray-deposited functional nanoparticle coatings on paper

Stimuli-responsive photonic polymer coatings

Elastomer composites based on carbon nanotubes and ionic liquid

Highly conducting polychloroprene composites based on multi-walled carbon nanotubes and 1-butyl 3-methyl imidazolium bis(trifluoromethylsulphonyl)imide

Enhanced thermal stability of polychloroprene rubber composites with ionic liquid modified MWCNTs

Erosion wear of vinyl ester matrix composites in aqueous and acidic environments at elevated temperatures

Simultaneous removal of tetrathionate and copper from simulated acidic mining water in bioelectrochemical and electrochemical systems

Process time importance in the product properties evolution during extrusion coating of different LDPE grades

Solvothermal synthesis derived Co-Ga codoped ZnO diluted magnetic degenerated semiconductor nanocrystals

Fluorine losses in  $\text{Er}^{3+}$  oxyfluoride phosphate glasses and glass-ceramics

Structure and in vitro dissolution of Mg and Sr containing borosilicate bioactive glasses for bone tissue engineering

Energetic origin of proton affinity to the air/water interface

Immobilized bioactive agents onto polyurethane surface with heparin and phosphorylcholine group

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

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

Development and application of HVOF sprayed spinel protective coating for SOFC interconnects

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

Wear of cemented tungsten carbide percussive drill-bit inserts  
Laboratory and field study

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

Microstructural and abrasion wear characteristics of laser-clad tool steel coatings

Optimised selection of new protective coatings for biofuel boiler applications

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

Fluorimetric oxygen sensor with an efficient optical read-out for in vitro cell models

Comparison of various high-stress wear conditions and wear performance of martensitic steels

Photomechanical Energy Transfer to Photopassive Polymers through Hydrogen and Halogen Bonds

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

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

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

Supramolecular design principles for efficient photoresponsive polymer-azobenzene complexes

Optimization of HVOF Cr<sub>3</sub>C<sub>2</sub>-NiCr coating for increased fatigue performance

High temperature corrosion of thermally sprayed NiCr and FeCr coatings covered with a KCl-K<sub>2</sub>SO<sub>4</sub> salt mixture

Formation mechanisms, structure, and properties of HVOF-sprayed WC-CoCr coatings  
An approach toward process maps

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

Evaluation of Residual Stresses and Their Influence on Cavitation Erosion Resistance of High Kinetic HVOF and HVOF-Sprayed WC-CoCr Coatings

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

Behavior of 4-hydroxynonenal in phospholipid membranes

Cysteine-tagged chimeric avidin forms high binding capacity layers directly on gold

Detection of 3,4-methylenedioxymethamphetamine (MDMA, ecstasy) by displacement of antibodies

Corrosion properties of thermally sprayed bond coatings under plasma sprayed chromia coating in sulfuric acid solutions

A supramolecular approach to photoresponsive thermo/solvoplastic block copolymer elastomers

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

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

Oriental dependence of the affinity of guanidinium ions to the water surface

Perfluoro-1,1'-biphenyl and perfluoronaphthalene and their derivatives as  $\pi$ -acceptors for anions

Photostable orange-red fluorescent unsymmetrical diketopyrrolopyrrole-BF<sub>2</sub> hybrids

Arc-sprayed Fe-based coatings from coredwires for wear and corrosion protection in power engineering

Hybrid nanoparticle design based on cationized gelatin and the polyanions dextran sulfate and chondroitin sulfate for ocular gene therapy