

Holger Schnherr

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/5189449/holger-schonherr-publications-by-year.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

318
papers

8,344
citations

46
h-index

74
g-index

337
ext. papers

9,169
ext. citations

6.4
avg, IF

6.23
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 318 | Strong emission of excimers realized by dense packing of pyrenes in tailored bola-amphiphile nano assemblies. <i>Cell Reports Physical Science</i> , 2022 , 100734 | 6.1 | 1 |
| 317 | Biosensing with a scanning planar Yagi-Uda antenna.. <i>Biomedical Optics Express</i> , 2022 , 13, 539-548 | 3.5 | |
| 316 | Smart and regeneratable Xanthan gum hydrogel adsorbents for selective removal of cationic dyes. <i>Journal of Environmental Chemical Engineering</i> , 2022 , 10, 107620 | 6.8 | 1 |
| 315 | Carboxylic Acid End-Capped Brushes on Titanium via Interface-Mediated RAFT Polymerization and CellSurface Interactions. <i>ACS Applied Polymer Materials</i> , 2022 , 4, 755-765 | 4.3 | 0 |
| 314 | 9-Nitrobenzo[b]quinolizinium as a fluorogenic probe for the detection of nitroreductase in vitro and in Escherichia coli. <i>New Journal of Chemistry</i> , 2021 , 46, 39-43 | 3.6 | 0 |
| 313 | Antimicrobial Photodynamic Therapy: Latest Developments with a Focus on Combinatory Strategies.. <i>Pharmaceutics</i> , 2021 , 13, | 6.4 | 7 |
| 312 | Scanning planar Yagi-Uda antenna for fluorescence detection: erratum. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2021 , 38, 3532 | 1.7 | |
| 311 | Incubation media modify silver nanoparticle toxicity for whitefish () and roach () embryos. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2021 , 1-20 | 3.2 | 0 |
| 310 | Synthesis of end group-functionalized PGMA-peptide brush platforms for specific cell attachment by interface-mediated dissociative electron transfer reversible addition-fragmentation chain transfer radical (DET-RAFT) polymerization. <i>European Polymer Journal</i> , 2021 , 148, 110370 | 5.2 | 3 |
| 309 | Recent advances for understanding the role of nanobubbles in particles flotation. <i>Advances in Colloid and Interface Science</i> , 2021 , 291, 102403 | 14.3 | 19 |
| 308 | Xanthan Gum Hydrogels as High-Capacity Adsorbents for Dye Removal. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 3142-3152 | 4.3 | 5 |
| 307 | Drug Release from Thermo-Responsive Polymer Brush Coatings to Control Bacterial Colonization and Biofilm Growth on Titanium Implants. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2100069 | 10.1 | 10 |
| 306 | Electrochemistry of nitrogen and boron Bi-element incorporated diamond films. <i>Carbon</i> , 2021 , 178, 19-25.4 | 5.4 | 8 |
| 305 | Restoring Endogenous Repair Mechanisms to Heal Chronic Wounds with a Multifunctional Wound Dressing. <i>Molecular Pharmaceutics</i> , 2021 , 18, 3171-3180 | 5.6 | 5 |
| 304 | Green seaweeds ulvan-cellulose scaffolds enhance in vitro cell growth and in vivo angiogenesis for skin tissue engineering. <i>Carbohydrate Polymers</i> , 2021 , 251, 117025 | 10.3 | 17 |
| 303 | Quantitative Enzyme Detection in Reporter Hydrogel-Coated Paper Using a Smartphone Camera. <i>Biosensors</i> , 2021 , 11, | 5.9 | 5 |
| 302 | Enzyme-Responsive Biopolymeric Nanogel Fibers by Extrusion: Engineering of High-Surface-Area Hydrogels and Application in Bacterial Enzyme Detection. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 12928-12940 | 9.5 | 2 |

| | | | |
|-----|---|------|----|
| 301 | Scanning planar Yagi-Uda antenna for fluorescence detection. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2021 , 38, 2528 | 1.7 | 2 |
| 300 | Enhanced microbial inactivation by carbon dioxide through mechanical effects. <i>Journal of Supercritical Fluids</i> , 2021 , 175, 105273 | 4.2 | |
| 299 | Multiplexed detection and differentiation of bacterial enzymes and bacteria by color-encoded sensor hydrogels. <i>Bioactive Materials</i> , 2021 , 6, 4286-4300 | 16.7 | 9 |
| 298 | Giant Biodegradable Poly(ethylene glycol)-block-Poly(ϵ -caprolactone) Polymersomes by Electroformation. <i>Macromolecular Bioscience</i> , 2020 , 20, e2000014 | 5.5 | 6 |
| 297 | Ultra-high energy density supercapacitors using a nickel phosphide/nickel/titanium carbide nanocomposite capacitor electrode. <i>Nanoscale</i> , 2020 , 12, 13618-13625 | 7.7 | 9 |
| 296 | Protein Encapsulation: A Nanocarrier Approach to the Fluorescence Imaging of an Enzyme-Based Biomarker. <i>Frontiers in Chemistry</i> , 2020 , 8, 389 | 5 | 9 |
| 295 | Tunable Photo-Electrochemistry of Patterned TiO ₂ /BDD Heterojunctions. <i>Small Methods</i> , 2020 , 4, 20002578 | 15.7 | 11 |
| 294 | Investigation of the Fate of Silver and Titanium Dioxide Nanoparticles in Model Wastewater Effluents via Selected Area Electron Diffraction. <i>Environmental Science & Technology</i> , 2020 , 54, 8681-8689 | 10.2 | 2 |
| 293 | Enhanced Colorimetric Differentiation between and Using a Shape-Encoded Sensor Hydrogel.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 4398-4407 | 4.1 | 9 |
| 292 | Anodic Aluminum Oxide Nanopore Template-Assisted Fabrication of Nanostructured Poly(vinyl alcohol) Hydrogels for Cell Studies.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 2419-2427 | 4.1 | 3 |
| 291 | "Clickable" and Antifouling Block Copolymer Brushes as a Versatile Platform for Peptide-Specific Cell Attachment. <i>Macromolecular Bioscience</i> , 2020 , 20, e1900354 | 5.5 | 16 |
| 290 | Poly(diethylene glycol methylether methacrylate) Brush-Functionalized Anodic Alumina Nanopores: Curvature-Dependent Polymerization Kinetics and Nanopore Filling. <i>Langmuir</i> , 2020 , 36, 2663-2672 | 4 | 7 |
| 289 | Impact of wastewater-borne nanoparticles of silver and titanium dioxide on the swimming behaviour and biochemical markers of <i>Daphnia magna</i> : An integrated approach. <i>Aquatic Toxicology</i> , 2020 , 220, 105404 | 5.1 | 16 |
| 288 | In Situ Study of Layer-by-Layer Polyelectrolyte Deposition in Nanopores of Anodic Aluminum Oxide by Reflectometric Interference Spectroscopy. <i>Langmuir</i> , 2020 , 36, 1907-1915 | 4 | 2 |
| 287 | Geometrical Constraints of Poly(diethylene glycol methyl ether methacrylate) Brushes on Spherical Nanoparticles and Cylindrical Nanowires: Implications for Thermoresponsive Brushes on Nanoobjects. <i>ACS Applied Nano Materials</i> , 2020 , 3, 3693-3705 | 5.6 | 2 |
| 286 | Unraveling the nanomechanical properties of surface-grafted conjugated polymer brushes with ladder-like architecture. <i>Polymer Chemistry</i> , 2020 , 11, 7050-7062 | 4.9 | 5 |
| 285 | Enhancing DPCD in Liquid Products by Mechanical Inactivation Effects: Assessment of Feasibility. <i>Chemie-Ingenieur-Technik</i> , 2020 , 92, 1122-1125 | 0.8 | 1 |
| 284 | Flexible Diamond Fibers for High-Energy-Density Zinc-Ion Supercapacitors. <i>Advanced Energy Materials</i> , 2020 , 10, 2002202 | 21.8 | 31 |

| | | | |
|-----|--|------|----|
| 283 | Spatiotemporal distribution of silver and silver-containing nanoparticles in a prealpine lake in relation to the discharge from a wastewater treatment plant. <i>Science of the Total Environment</i> , 2019 , 696, 134034 | 10.2 | 18 |
| 282 | Guided assembly, nanostructuring and functionalization with brushes of microscale polymer cubes for tailored 3-D cell microenvironments. <i>European Polymer Journal</i> , 2019 , 113, 47-51 | 5.2 | 4 |
| 281 | Reconfigurable Microcube Assemblies at the Liquid/Air Interface: The Impact of Surface Tension on Orientation and Capillary-Force-Interaction-Driven Assembly. <i>Langmuir</i> , 2019 , 35, 7791-7797 | 4 | 3 |
| 280 | Comparative multi-generation study on long-term effects of pristine and wastewater-borne silver and titanium dioxide nanoparticles on key lifecycle parameters in <i>Daphnia magna</i> . <i>NanoImpact</i> , 2019 , 14, 100163 | 5.6 | 21 |
| 279 | Propagation and Purification of Human Induced Pluripotent Stem Cells with Selective Homopolymer Release Surfaces. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 10563-10566 | 16.4 | 8 |
| 278 | Asymmetric multifunctional 3D cell microenvironments by capillary force assembly. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 3560-3568 | 7.3 | 1 |
| 277 | Toward Label-Free Selective Cell Separation of Different Eukaryotic Cell Lines Using Thermoresponsive Homopolymer Layers.. <i>ACS Applied Bio Materials</i> , 2019 , 2, 2557-2566 | 4.1 | 6 |
| 276 | Control of Orientation, Formation of Ordered Structures, and Self-Sorting of Surface-Functionalized Microcubes at the Air-Water Interface. <i>Langmuir</i> , 2019 , 35, 6742-6751 | 4 | 7 |
| 275 | Thermal Hardening and Defects in Anodic Aluminum Oxide Obtained in Oxalic Acid: Implications for the Template Synthesis of Low-Dimensional Nanostructures. <i>ACS Applied Nano Materials</i> , 2019 , 2, 1986-1994 | 5.6 | 6 |
| 274 | Achieving Ultrahigh Energy Densities of Supercapacitors with Porous Titanium Carbide/Boron-Doped Diamond Composite Electrodes. <i>Advanced Energy Materials</i> , 2019 , 9, 1803623 | 21.8 | 40 |
| 273 | Catalytic tar removal using TiO ₂ /NiWO ₄ -Ni ₅ TiO ₇ films. <i>Applied Catalysis B: Environmental</i> , 2019 , 249, 155-162 | 21.8 | 12 |
| 272 | Photoresponsive Supramolecular Hydrogel Co-assembled from Fmoc-Phe-OH and 4,4'-Azopyridine for Controllable Dye Release. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2019 , 37, 437-443 | 3.5 | 2 |
| 271 | Multimodal microscopy-based identification of surface nanobubbles. <i>Journal of Colloid and Interface Science</i> , 2019 , 547, 162-170 | 9.3 | 16 |
| 270 | Tailored Combinatorial Microcompartments through the Self-Organization of Microobjects: Assembly, Characterization, and Cell Studies. <i>Angewandte Chemie</i> , 2019 , 131, 5300-5304 | 3.6 | 2 |
| 269 | Phase Transitions and Formation of a Monolayer-Type Structure in Thin Oligothiophene Films: Exploration with a Combined In Situ X-ray Diffraction and Electrical Measurements. <i>Nanoscale Research Letters</i> , 2019 , 14, 185 | 5 | 2 |
| 268 | Propagation and Purification of Human Induced Pluripotent Stem Cells with Selective Homopolymer Release Surfaces. <i>Angewandte Chemie</i> , 2019 , 131, 10673-10676 | 3.6 | 0 |
| 267 | Colorimetric and Fluorimetric DNA Detection with a Hydroxystyryl-Quinolizinium Photoacid and Its Application for Cell Imaging. <i>Chemistry - A European Journal</i> , 2019 , 25, 12703-12707 | 4.8 | 11 |
| 266 | Effect of Chirality on Cell Spreading and Differentiation: From Chiral Molecules to Chiral Self-Assembly. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 38568-38577 | 9.5 | 25 |

| | | | |
|-----|---|------|----|
| 265 | Probing of local polarity in poly(methyl methacrylate) with the charge transfer transition in Nile red. <i>Beilstein Journal of Organic Chemistry</i> , 2019 , 15, 2552-2562 | 2.5 | 8 |
| 264 | Tailored Combinatorial Microcompartments through the Self-Organization of Microobjects: Assembly, Characterization, and Cell Studies. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 5246-5250 | 16.4 | 8 |
| 263 | Improved Multicellular Response, Biomimetic Mineralization, Angiogenesis, and Reduced Foreign Body Response of Modified Polydioxanone Scaffolds for Skeletal Tissue Regeneration. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 5834-5850 | 9.5 | 13 |
| 262 | Micropatterning and nanopatterning with polymeric materials for advanced biointerface-controlled systems. <i>Polymer International</i> , 2019 , 68, 1015-1032 | 3.3 | 4 |
| 261 | Phosphorus-Doped Nanocrystalline Diamond for Supercapacitor Application. <i>ChemElectroChem</i> , 2019 , 6, 1088-1093 | 4.3 | 18 |
| 260 | Battery-like Supercapacitors from Vertically Aligned Carbon Nanofiber Coated Diamond: Design and Demonstrator. <i>Advanced Energy Materials</i> , 2018 , 8, 1702947 | 21.8 | 59 |
| 259 | Selective Discrimination of Key Enzymes of Pathogenic and Nonpathogenic Bacteria on Autonomously Reporting Shape-Encoded Hydrogel Patterns. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 5175-5184 | 9.5 | 13 |
| 258 | Interplay of Template Constraints and Microphase Separation in Polymeric Nano-Objects Replicated from Novel Modulated and Interconnected Nanoporous Anodic Alumina. <i>ACS Applied Nano Materials</i> , 2018 , 1, 200-208 | 5.6 | 7 |
| 257 | Detailed Analysis of Pancreatic Tumor Cell Attachment on Gradient PDEGMA Brushes. <i>Macromolecular Bioscience</i> , 2018 , 18, 1700317 | 5.5 | 7 |
| 256 | Supercapacitors: Battery-like Supercapacitors from Vertically Aligned Carbon Nanofiber Coated Diamond: Design and Demonstrator (Adv. Energy Mater. 12/2018). <i>Advanced Energy Materials</i> , 2018 , 8, 1870054 | 21.8 | 8 |
| 255 | Hyaluronic Acid-Modified Porous Silicon Films for the Electrochemical Sensing of Bacterial Hyaluronidase. <i>Macromolecular Rapid Communications</i> , 2018 , 39, e1800178 | 4.8 | 9 |
| 254 | Towards Multiplexed Bacteria Detection by Enzyme Responsive Hydrogels. <i>Macromolecular Symposia</i> , 2018 , 379, 1600178 | 0.8 | 12 |
| 253 | Three-Dimensional Microstructured Poly(vinyl alcohol) Hydrogel Platform for the Controlled Formation of Multicellular Cell Spheroids. <i>Biomacromolecules</i> , 2018 , 19, 158-166 | 6.9 | 16 |
| 252 | Enhanced cell adhesion on a bio-inspired hierarchically structured polyester modified with gelatin-methacrylate. <i>Biomaterials Science</i> , 2018 , 6, 785-792 | 7.4 | 18 |
| 251 | Thickness-Encoded Micropatterns in One-Component Thermoresponsive Polymer Brushes for Culture and Triggered Release of Pancreatic Tumor Cell Monolayers and Spheroids. <i>Langmuir</i> , 2018 , 34, 14670-14677 | 4 | 15 |
| 250 | Rapid determination of binding parameters of chitin binding domains using chitin-coated quartz crystal microbalance sensor chips. <i>Analyt. The</i> , 2018 , 143, 5255-5263 | 5 | 4 |
| 249 | 3D 3C-SiC/Graphene Hybrid Nanolaminate Films for High-Performance Supercapacitors. <i>Small</i> , 2018 , 14, e1801857 | 11 | 22 |
| 248 | Fluorimetric Detection of G-Quadruplex DNA in Solution and Adsorbed on Surfaces with a Selective Trinuclear Cyanine Dye. <i>Langmuir</i> , 2018 , 34, 11866-11877 | 4 | 11 |

| | | | |
|-----|--|------|----|
| 247 | Ruthenium(II) Polypyridyl Complexes as Photosensitizers for Antibacterial Photodynamic Therapy: A Structure-Activity Study on Clinical Bacterial Strains. <i>ChemMedChem</i> , 2018 , 13, 2229-2239 | 3.7 | 26 |
| 246 | An Acid Test: Facile SI-ARGET-ATRP of Methacrylic Acid. <i>Macromolecular Chemistry and Physics</i> , 2018 , 219, 1800182 | 2.6 | 1 |
| 245 | Bioinspired Hierarchically Structured Surfaces for Efficient Capture and Release of Circulating Tumor Cells. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 8508-8518 | 9.5 | 44 |
| 244 | Colloidal force probe study of poly(di(ethylene glycol)methylether methacrylate) homopolymer brush layers in aqueous media at different temperatures. <i>European Polymer Journal</i> , 2017 , 89, 440-448 | 5.2 | 16 |
| 243 | Biomineralization potential and cellular response of PHB and PHBV blends with natural anionic polysaccharides. <i>Materials Science and Engineering C</i> , 2017 , 76, 13-24 | 8.3 | 17 |
| 242 | 8-Styryl-substituted coralyne derivatives as DNA binding fluorescent probes. <i>RSC Advances</i> , 2017 , 7, 10660-10667 | 6.9 | 11 |
| 241 | Polysucrose-based hydrogels for loading of small molecules and cell growth. <i>Reactive and Functional Polymers</i> , 2017 , 115, 18-27 | 4.6 | 4 |
| 240 | Encapsulation of Autoinducer Sensing Reporter Bacteria in Reinforced Alginate-Based Microbeads. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 22321-22331 | 9.5 | 39 |
| 239 | Pristine DNA Hydrogels from Biotechnologically Derived Plasmid DNA. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 12004-12008 | 16.4 | 18 |
| 238 | Isolated Reporter Bacteria in Supramolecular Hydrogel Microwell Arrays. <i>Langmuir</i> , 2017 , 33, 7799-7809 | 4 | 11 |
| 237 | DNA-Hydrogele aus Plasmid-DNA. <i>Angewandte Chemie</i> , 2017 , 129, 12167-12171 | 3.6 | 5 |
| 236 | ECarrageenan Enhances the Biomineralization and Osteogenic Differentiation of Electrospun Polyhydroxybutyrate and Polyhydroxybutyrate Valerate Fibers. <i>Biomacromolecules</i> , 2017 , 18, 1563-1573 | 6.9 | 45 |
| 235 | Detailed Study of BSA Adsorption on Micro- and Nanocrystalline Diamond/ESiC Composite Gradient Films by Time-Resolved Fluorescence Microscopy. <i>Langmuir</i> , 2017 , 33, 802-813 | 4 | 14 |
| 234 | Long-Term Stable Poly(acrylamide) Brush Modified Transparent Microwells for Cell Attachment Studies in 3D. <i>Macromolecular Bioscience</i> , 2017 , 17, 1600451 | 5.5 | 6 |
| 233 | Determination of the Wall Thickness of Block Copolymer Vesicles by Fluorescence Lifetime Imaging Microscopy. <i>Macromolecular Chemistry and Physics</i> , 2017 , 218, 1600454 | 2.6 | 7 |
| 232 | Control of the structure and properties of SEBS nanocomposites via chemical modification of graphene with polymer brushes. <i>European Polymer Journal</i> , 2017 , 97, 1-13 | 5.2 | 14 |
| 231 | Enhanced Differentiation of Human Preosteoblasts on Electrospun Blend Fiber Mats of Polydioxanone and Anionic Sulfated Polysaccharides. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 3447-3458 | 5.5 | 19 |
| 230 | Autoinducer Sensing Microarrays by Reporter Bacteria Encapsulated in Hybrid Supramolecular-Polysaccharide Hydrogels. <i>Macromolecular Bioscience</i> , 2017 , 17, 1700176 | 5.5 | 9 |

| | | | |
|-----|---|------|----|
| 229 | Thin Poly(Di(Ethylene Glycol)Methyl Ether Methacrylate) Homopolymer Brushes Allow Controlled Adsorption and Desorption of PaTu 8988t Cells. <i>Macromolecular Bioscience</i> , 2017 , 17, 1600337 | 5.5 | 14 |
| 228 | The Effect of Size and Geometry of Poly(acrylamide) Brush-Based Micropatterns on the Behavior of Cells. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 23591-603 | 9.5 | 20 |
| 227 | Thickness Dependence of Bovine Serum Albumin Adsorption on Thin Thermo-responsive Poly(diethylene glycol) Methyl Ether Methacrylate Brushes by Surface Plasmon Resonance Measurements. <i>Langmuir</i> , 2016 , 32, 9360-70 | 4 | 20 |
| 226 | Imaging Polymer Morphology using Atomic Force Microscopy 2016 , 100-117 | | 3 |
| 225 | Block Copolymer Brushes for Completely Decoupled Control of Determinants of Cell-Surface Interactions. <i>Angewandte Chemie</i> , 2016 , 128, 13308-13311 | 3.6 | 6 |
| 224 | Block Copolymer Brushes for Completely Decoupled Control of Determinants of Cell-Surface Interactions. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 13114-13117 | 16.4 | 28 |
| 223 | Surface Nanobubbles Studied by Time-Resolved Fluorescence Microscopy Methods Combined with AFM: The Impact of Surface Treatment on Nanobubble Nucleation. <i>Langmuir</i> , 2016 , 32, 11155-11163 | 4 | 44 |
| 222 | AFM Study of Surface Nanobubbles on Binary Self-Assembled Monolayers on Ultraflat Gold with Identical Macroscopic Static Water Contact Angles and Different Terminal Functional Groups. <i>Langmuir</i> , 2016 , 32, 11172-11178 | 4 | 11 |
| 221 | Optimized Model Surfaces for Advanced Atomic Force Microscopy Studies of Surface Nanobubbles. <i>Langmuir</i> , 2016 , 32, 11179-11187 | 4 | 8 |
| 220 | Self-reporting hydrogels rapidly differentiate among enterohemorrhagic Escherichia coli (EHEC) and non-virulent Escherichia coli (K12). <i>European Polymer Journal</i> , 2016 , 81, 257-265 | 5.2 | 9 |
| 219 | Control of Cell Attachment and Spreading on Poly(acrylamide) Brushes with Varied Grafting Density. <i>Langmuir</i> , 2016 , 32, 838-47 | 4 | 32 |
| 218 | Modeling the Interaction between AFM Tips and Pinned Surface Nanobubbles. <i>Langmuir</i> , 2016 , 32, 751-84 | | 23 |
| 217 | Synthesis and characterization of well-defined ligand-terminated block copolymer brushes for multifunctional biointerfaces. <i>Polymer</i> , 2016 , 98, 409-420 | 3.9 | 21 |
| 216 | Temperature-Controlled Antimicrobial Release from Poly(diethylene glycol methylether methacrylate)-Functionalized Bottleneck-Structured Porous Silicon for the Inhibition of Bacterial Growth. <i>Macromolecular Chemistry and Physics</i> , 2016 , 217, 2243-2251 | 2.6 | 22 |
| 215 | Impact of substrate temperature on the structure and electrical performance of vacuum-deposited P-DH5T oligothiophene thin films. <i>RSC Advances</i> , 2016 , 6, 115085-115091 | 3.7 | 7 |
| 214 | Microrheology of growing Escherichia coli biofilms investigated by using magnetic force modulation atomic force microscopy. <i>Biointerphases</i> , 2016 , 11, 041005 | 1.8 | 3 |
| 213 | Surface nanobubbles studied by atomic force microscopy techniques: Facts, fiction, and open questions. <i>Japanese Journal of Applied Physics</i> , 2016 , 55, 08NA01 | 1.4 | 16 |
| 212 | Electrochemical Supercapacitors from Diamond. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 18918-18926 | 3.8 | 53 |

| | | | |
|-----|--|------|-----|
| 211 | Multi-Ligand-Binding Flavoprotein Dodecin as a Key Element for Reversible Surface Modification in Nano-biotechnology. <i>ACS Nano</i> , 2015 , 9, 3491-500 | 16.7 | 23 |
| 210 | Poly(ester-ether)s: III. assessment of cell behaviour on nanofibrous scaffolds of PCL, PLLA and PDX blended with amorphous PMeDX. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 673-687 | 7.3 | 20 |
| 209 | Real time monitoring of layer-by-layer polyelectrolyte deposition and bacterial enzyme detection in nanoporous anodized aluminum oxide. <i>Analytical Chemistry</i> , 2015 , 87, 3856-63 | 7.8 | 30 |
| 208 | Dual Enzyme-Responsive Capsules of Hyaluronic Acid-block-Poly(Lactic Acid) for Sensing Bacterial Enzymes. <i>Macromolecular Rapid Communications</i> , 2015 , 36, 1248-54 | 4.8 | 41 |
| 207 | Rapid remote detection of Escherichia coli via a reporter-hydrogel coated glass fiber tip. <i>European Polymer Journal</i> , 2015 , 72, 180-189 | 5.2 | 7 |
| 206 | Rapid Detection of Escherichia coli via Enzymatically Triggered Reactions in Self-Reporting Chitosan Hydrogels. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 20190-9 | 9.5 | 37 |
| 205 | Autonomously Sensing Hydrogels for the Rapid and Selective Detection of Pathogenic Bacteria. <i>Macromolecular Rapid Communications</i> , 2015 , 36, 2123-8 | 4.8 | 25 |
| 204 | Photoinduced formation of stable Ag-nanoparticles from a ternary ligand-DNA-Ag(+) complex. <i>Organic and Biomolecular Chemistry</i> , 2015 , 13, 3766-70 | 3.9 | 6 |
| 203 | Forces and thin water film drainage in deformable asymmetric nanoscale contacts. <i>ACS Nano</i> , 2015 , 9, 12-5 | 16.7 | 16 |
| 202 | Enzyme degradable polymersomes from hyaluronic acid-block-poly(ϵ -caprolactone) copolymers for the detection of enzymes of pathogenic bacteria. <i>Biomacromolecules</i> , 2015 , 16, 832-41 | 6.9 | 80 |
| 201 | Characterization of the interaction between AFM tips and surface nanobubbles. <i>Langmuir</i> , 2014 , 30, 7114-26 | 4.5 | |
| 200 | Controlled surface chemistry of diamond/BSiC composite films for preferential protein adsorption. <i>Langmuir</i> , 2014 , 30, 1089-99 | 4 | 26 |
| 199 | Construction of three-dimensional DNA hydrogels from linear building blocks. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 8328-32 | 16.4 | 36 |
| 198 | Poly(ester-ether)s: II. Properties of electrospun nanofibres from polydioxanone and poly(methyl dioxanone) blends and human fibroblast cellular proliferation. <i>Biomaterials Science</i> , 2014 , 2, 339-351 | 7.4 | 17 |
| 197 | Hydrodynamic effects of the tip movement on surface nanobubbles: a combined tapping mode, lift mode and force volume mode AFM study. <i>Soft Matter</i> , 2014 , 10, 5945-54 | 3.6 | 28 |
| 196 | Enhanced removal of methylene blue and methyl violet dyes from aqueous solution using a nanocomposite of hydrolyzed polyacrylamide grafted xanthan gum and incorporated nanosilica. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 4766-77 | 9.5 | 368 |
| 195 | Bacterial Enzyme Responsive Polymersomes: A Closer Look at the Degradation Mechanism of PEG-block-PLA Vesicles. <i>Australian Journal of Chemistry</i> , 2014 , 67, 578 | 1.2 | 16 |
| 194 | Dimensions and the profile of surface nanobubbles: tip-nanobubble interactions and nanobubble deformation in atomic force microscopy. <i>Langmuir</i> , 2014 , 30, 11955-65 | 4 | 39 |

| | | | |
|-----|--|------|----|
| 193 | Enzyme-sensing chitosan hydrogels. <i>Langmuir</i> , 2014 , 30, 7842-50 | 4 | 41 |
| 192 | Fabrication of complex free-standing nanostructures with concave and convex curvature via the layer-by-layer approach. <i>Langmuir</i> , 2014 , 30, 1723-8 | 4 | 12 |
| 191 | Construction of Three-Dimensional DNA Hydrogels from Linear Building Blocks. <i>Angewandte Chemie</i> , 2014 , 126, 8468-8472 | 3.6 | 12 |
| 190 | Molecular beacon modified sensor chips for oligonucleotide detection with optical readout. <i>Langmuir</i> , 2014 , 30, 14360-7 | 4 | 11 |
| 189 | Improved synthesis of anodized aluminum oxide with modulated pore diameters for the fabrication of polymeric nanotubes. <i>RSC Advances</i> , 2013 , 3, 13429 | 3.7 | 20 |
| 188 | Amphiphilic Block Copolymer Vesicles For Active Wound Dressings: Synthesis of Model Systems and Studies of Encapsulation and Release. <i>Macromolecular Symposia</i> , 2013 , 328, 73-79 | 0.8 | 13 |
| 187 | Covalently cross-linked poly(acrylamide) brushes on gold with tunable mechanical properties via surface-initiated atom transfer radical polymerization. <i>European Polymer Journal</i> , 2013 , 49, 1943-1951 | 5.2 | 38 |
| 186 | The flavoprotein dodecin as a redox probe for electron transfer through DNA. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 4950-3 | 16.4 | 11 |
| 185 | The effect of PeakForce tapping mode AFM imaging on the apparent shape of surface nanobubbles. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 184005 | 1.8 | 49 |
| 184 | Closer look at the effect of AFM imaging conditions on the apparent dimensions of surface nanobubbles. <i>Langmuir</i> , 2013 , 29, 620-32 | 4 | 40 |
| 183 | Tailored (Bio)Interfaces via Surface Initiated Polymerization: Control of Grafting Density and New Responsive Diblock Copolymer Brushes. <i>Macromolecular Symposia</i> , 2013 , 328, 64-72 | 0.8 | 14 |
| 182 | Effect of crystal habit and superstructure on modulus of elasticity of isotactic polypropylene by AFM nanoindentation. <i>Journal of Materials Science</i> , 2012 , 47, 3040-3045 | 4.3 | 5 |
| 181 | Pushing the size limits in the replication of nanopores in anodized aluminum oxide via the layer-by-layer deposition of polyelectrolytes. <i>Langmuir</i> , 2012 , 28, 10091-6 | 4 | 21 |
| 180 | Preparation of a poly-nanocage dynamer: correlating the growth of polymer strands using constitutional dynamic chemistry and heteroleptic aggregation. <i>Journal of the American Chemical Society</i> , 2012 , 134, 150-3 | 16.4 | 52 |
| 179 | Forced unbinding of individual urea-aminotriazine supramolecular polymers by atomic force microscopy: a closer look at the potential energy landscape and binding lengths at fixed loading rates. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 565-70 | 3.4 | 12 |
| 178 | Novel pH responsive hydrogels for controlled cell adhesion and triggered surface detachment. <i>Soft Matter</i> , 2012 , 8, 9539 | 3.6 | 33 |
| 177 | A highly efficient self-assembly of responsive C(2) -cyclohexane-derived gelators. <i>Macromolecular Rapid Communications</i> , 2012 , 33, 1535-41 | 4.8 | 20 |
| 176 | AFM to study bio/nonbio interactions. <i>Methods in Molecular Biology</i> , 2012 , 811, 179-92 | 1.4 | |

| | | | |
|-----|---|------|----|
| 175 | Self-complementary recognition of supramolecular urea-aminotriazines in solution and on surfaces. <i>Langmuir</i> , 2011 , 27, 14272-8 | 4 | 11 |
| 174 | The investigation of cell adhesion on nano-patterned biointerfaces of block copolymer films by reactive microcontact printing approach. <i>Journal of Controlled Release</i> , 2011 , 152 Suppl 1, e201-2 | 11.7 | 2 |
| 173 | Structural and morphological changes of P3HT films in the planar geometry of an OFET device under an applied electric field. <i>European Polymer Journal</i> , 2011 , 47, 2189-2196 | 5.2 | 8 |
| 172 | Surface-Grafted, Covalently Cross-Linked Hydrogel Brushes with Tunable Interfacial and Bulk Properties. <i>Macromolecules</i> , 2011 , 44, 5344-5351 | 5.5 | 89 |
| 171 | Substrate effect and application of the elastic foundation model to evaluate atomic force microscope nanoindentations of thin polymeric films. <i>Polymer Engineering and Science</i> , 2011 , 51, 1507-1512 | 2.3 | 8 |
| 170 | Nanomechanical Properties of Oligo(ethylene glycol methacrylate) Polymer Brush-Based Biointerfaces. <i>Advanced Engineering Materials</i> , 2011 , 13, B369-B376 | 3.5 | 19 |
| 169 | Patterns of surface immobilized block copolymer vesicle nanoreactors. <i>European Polymer Journal</i> , 2011 , 47, 130-138 | 5.2 | 12 |
| 168 | Scanning Near-Field Ellipsometry Microscopy: imaging nanomaterials with resolution below the diffraction limit. <i>Nanoscale</i> , 2011 , 3, 233-9 | 7.7 | 11 |
| 167 | Nanomechanical properties of advanced plasma polymerized coatings for mechanical data storage. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 3385-91 | 3.4 | 6 |
| 166 | Scanning thermal lithography of tailored tert-butyl ester protected carboxylic acid functionalized (meth)acrylate polymer platforms. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 3855-65 | 9.5 | 7 |
| 165 | Entropic Effects on the Mechanical Behavior of Dry Polymer Brushes During Nanoindentation by Atomic Force Microscopy. <i>Macromolecules</i> , 2011 , 44, 368-374 | 5.5 | 21 |
| 164 | Contact angles of surface nanobubbles on mixed self-assembled monolayers with systematically varied macroscopic wettability by atomic force microscopy. <i>Langmuir</i> , 2011 , 27, 8223-32 | 4 | 70 |
| 163 | Binary self-assembled monolayers of alkanethiols on gold: deposition from solution versus microcontact printing and the study of surface nanobubbles. <i>Langmuir</i> , 2011 , 27, 1353-8 | 4 | 9 |
| 162 | Scanning Thermal Lithography as a Tool for Highly Localized Nanoscale Chemical Surface Functionalization. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1318, 1 | | 1 |
| 161 | Implementation of Specific Bioconjugation in Polystyrene-block-poly(tert-butyl acrylate)-Based Bio-Interfaces. <i>Macromolecular Symposia</i> , 2010 , 298, 64-71 | 0.8 | 1 |
| 160 | Visualization of Macromolecules and Polymer Morphology 2010 , 79-187 | | |
| 159 | Controlled Wettability of Diamond/BC Composite Thin Films for Biosensoric Applications. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 20207-20212 | 3.8 | 32 |
| 158 | Nanoscale thermal AFM of polymers: transient heat flow effects. <i>ACS Nano</i> , 2010 , 4, 6932-40 | 16.7 | 43 |

| | | | |
|-----|---|------|----|
| 157 | Scanning Force Microscopy of Polymers 2010 , | | 31 |
| 156 | Physical Principles of Scanning Probe Microscopy Imaging 2010 , 3-24 | | 1 |
| 155 | Atomic Force Microscopy in Practice 2010 , 25-75 | | 5 |
| 154 | Chymotrypsin-catalyzed reaction confined in block-copolymer vesicles. <i>ChemPhysChem</i> , 2010 , 11, 3534-40 | | 13 |
| 153 | Reactive Imprint Lithography: Combined Topographical Patterning and Chemical Surface Functionalization of Polystyrene-block-poly(tert-butyl acrylate) Films. <i>Advanced Functional Materials</i> , 2010 , 20, 460-468 | 15.6 | 10 |
| 152 | Encapsulation and release of molecular cargos via temperature-induced vesicle-to-micelle transitions. <i>Small</i> , 2010 , 6, 2762-8 | 11 | 26 |
| 151 | Polymer Surface and Interface Properties and (Dynamic) Processes 2010 , 189-236 | | 3 |
| 150 | Free-Standing 3 D Supramolecular Hybrid Particle Structures. <i>Angewandte Chemie</i> , 2009 , 121, 1001-1005,6 | | 8 |
| 149 | Free-standing 3D supramolecular hybrid particle structures. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 983-7 | 16.4 | 39 |
| 148 | Block-copolymer vesicles as nanoreactors for enzymatic reactions. <i>Small</i> , 2009 , 5, 1436-45 | 11 | 96 |
| 147 | Freestanding 3D supramolecular particle bridges: fabrication and mechanical behavior. <i>Small</i> , 2009 , 5, 1428-35 | 11 | 24 |
| 146 | Preferred sizes and ordering in surface nanobubble populations. <i>Physical Review E</i> , 2009 , 80, 036315 | 2.4 | 22 |
| 145 | Mechanical properties of block copolymer vesicle membranes by atomic force microscopy. <i>Soft Matter</i> , 2009 , 5, 4944 | 3.6 | 42 |
| 144 | Probing single enzyme kinetics in real-time. <i>Chemical Society Reviews</i> , 2009 , 38, 2671-83 | 58.5 | 24 |
| 143 | Surface relaxations of poly(methyl methacrylate) assessed by friction force microscopy on the nanoscale. <i>Soft Matter</i> , 2009 , 5, 1489 | 3.6 | 17 |
| 142 | Rupture force of single supramolecular bonds in associative polymers by AFM at fixed loading rates. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 7359-62 | 3.4 | 33 |
| 141 | Inverted microcontact printing on polystyrene-block-poly(tert-butyl acrylate) films: a versatile approach to fabricate structured biointerfaces across the length scales. <i>Langmuir</i> , 2008 , 24, 8841-9 | 4 | 26 |
| 140 | Atomic force microscopy based thermal lithography of poly(tert-butyl acrylate) block copolymer films for bioconjugation. <i>Langmuir</i> , 2008 , 24, 10825-32 | 4 | 25 |

| | | | |
|-----|--|------|-----|
| 139 | Friction and Surface Dynamics of Polymers on the Nanoscale by AFM. <i>Topics in Current Chemistry</i> , 2008 , 285, 103-56 | | 11 |
| 138 | Low Friction in CuO-Doped Yttria-Stabilized Tetragonal Zirconia Ceramics: A Complementary Macro- and Nanotribology Study. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 1646-1652 | 3.8 | 9 |
| 137 | Calibration of friction force signals in atomic force microscopy in liquid media. <i>Langmuir</i> , 2007 , 23, 7078-82 | | 30 |
| 136 | Self-organization of gold-containing hydrogen-bonded rosette assemblies on graphite surface. <i>Langmuir</i> , 2007 , 23, 10294-8 | 4 | 13 |
| 135 | Polymerization of diacetylene phospholipid bilayers on solid substrate: influence of the film deposition temperature. <i>Langmuir</i> , 2007 , 23, 12254-60 | 4 | 36 |
| 134 | Reactive microCP on ultrathin block copolymer films: investigation of the microCP mechanism and application to sub-microm (bio)molecular patterning. <i>Langmuir</i> , 2007 , 23, 1131-40 | 4 | 10 |
| 133 | Closed mechano-electrochemical cycles of individual single-chain macromolecular motors by AFM. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 8400-4 | 16.4 | 53 |
| 132 | Closed Mechano-electrochemical Cycles of Individual Single-Chain Macromolecular Motors by AFM. <i>Angewandte Chemie</i> , 2007 , 119, 8552-8556 | 3.6 | 8 |
| 131 | Reactive Microcontact Printing on Block Copolymer Films: Exploiting Chemistry in Microcontacts for Sub-micrometer Patterning of Biomolecules. <i>Advanced Materials</i> , 2007 , 19, 286-290 | 24 | 38 |
| 130 | Probing buried carbon nanotubes within polymer/nanotube composite matrices by atomic force microscopy. <i>European Polymer Journal</i> , 2007 , 43, 4136-4142 | 5.2 | 19 |
| 129 | Tailored interfaces for biosensors and cell-surface interaction studies via activation and derivatization of polystyrene-block-poly(tert-butyl acrylate) thin films. <i>European Polymer Journal</i> , 2007 , 43, 2177-2190 | 5.2 | 10 |
| 128 | Superstability of surface nanobubbles. <i>Physical Review Letters</i> , 2007 , 98, 204502 | 7.4 | 176 |
| 127 | Force Spectroscopy of Individual Stimulus-Responsive Poly(ferrocenyldimethylsilane) Chains: Towards a Redox-Driven Macromolecular Motor. <i>Macromolecular Rapid Communications</i> , 2006 , 27, 103-108 | 4.8 | 51 |
| 126 | Fabrication of Robust Biomolecular Patterns by Reactive Microcontact Printing on N-Hydroxysuccinimide Ester-Containing Polymer Films. <i>Advanced Functional Materials</i> , 2006 , 16, 1306-1312 | 15.6 | 43 |
| 125 | Quantitative nanotribology by AFM: a novel universal calibration platform. <i>Langmuir</i> , 2006 , 22, 2340-50 | 4 | 69 |
| 124 | Chemical Force Microscopy: Nanometer-Scale Surface Analysis with Chemical Sensitivity | | 3 |
| 123 | Atomic Force Microscopy-Based Single-Molecule Force Spectroscopy of Synthetic Supramolecular Dimers and Polymers | | 8 |
| 122 | Dip-pen nanolithography on (bio)reactive monolayer and block-copolymer platforms: deposition of lines of single macromolecules. <i>Small</i> , 2006 , 2, 1274-82 | 11 | 34 |

| | | | |
|-----|--|------|-----|
| 121 | Reactive CP on ultrathin block copolymer films: Localized chemistry for micro- and nano-scale biomolecular patterning. <i>European Polymer Journal</i> , 2006 , 42, 1954-1965 | 5.2 | 22 |
| 120 | Single molecule force spectroscopy of smart poly(ferrocenylsilane) macromolecules: Towards highly controlled redox-driven single chain motors. <i>Polymer</i> , 2006 , 47, 2483-2492 | 3.9 | 35 |
| 119 | Interfacial reactions in confinement: kinetics and temperature dependence of the surface hydrolysis of polystyrene-block-poly(tert-butyl acrylate) thin films. <i>Langmuir</i> , 2005 , 21, 2356-63 | 4 | 36 |
| 118 | Reactive thin polymer films as platforms for the immobilization of biomolecules. <i>Biomacromolecules</i> , 2005 , 6, 3243-51 | 6.9 | 59 |
| 117 | Force spectroscopy of quadruple H-bonded dimers by AFM: dynamic bond rupture and molecular time-temperature superposition. <i>Journal of the American Chemical Society</i> , 2005 , 127, 11230-1 | 16.4 | 73 |
| 116 | Chemical Composition of Polymer Surfaces Imaged by Atomic Force Microscopy and Complementary Approaches. <i>Advances in Polymer Science</i> , 2005 , 55-129 | 1.3 | 37 |
| 115 | New combinatorial approach for the investigation of kinetics and temperature dependence of surface reactions in thin organic films. <i>Langmuir</i> , 2005 , 21, 4393-9 | 4 | 23 |
| 114 | Compositional Mapping of Polymer Surfaces by Chemical Force Microscopy Down to the Nanometer Scale: Reactions in Block Copolymer Microdomains. <i>Macromolecular Symposia</i> , 2005 , 230, 149-157 | 0.8 | 21 |
| 113 | Influence of Grain Size and Humidity on the Nanotribological Properties of Wear-Resistant Nanostructured ZrO ₂ Coatings: An Atomic Force Microscopy Study. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 2498-2503 | 3.8 | 8 |
| 112 | Stretching and rupturing individual supramolecular polymer chains by AFM. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 956-9 | 16.4 | 98 |
| 111 | Stretching and Rupturing Individual Supramolecular Polymer Chains by AFM. <i>Angewandte Chemie</i> , 2005 , 117, 978-981 | 3.6 | 15 |
| 110 | Supramolecular microcontact printing and dip-pen nanolithography on molecular printboards. <i>Chemistry - A European Journal</i> , 2005 , 11, 3988-96 | 4.8 | 67 |
| 109 | Organic and Macromolecular Films and Assemblies as (Bio)reactive Platforms: From Model Studies on Structure-Reactivity Relationships to Submicrometer Patterning. <i>Advances in Polymer Science</i> , 2005 , 169-208 | 1.3 | 12 |
| 108 | Development of a high velocity accessory for atomic force microscopy-based friction measurements. <i>Review of Scientific Instruments</i> , 2005 , 76, 083704 | 1.7 | 12 |
| 107 | Probing chemical reactions on the nanometer scale: Inverted chemical force microscopy of reactive self-assembled monolayers. <i>Surface Science</i> , 2004 , 570, 57-66 | 1.8 | 11 |
| 106 | Writing patterns of molecules on molecular printboards. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 369-73 | 16.4 | 149 |
| 105 | Spontaneous Resolution of Racemic Hydrogen-Bonded Nanoassemblies on Graphite Revealed by Atomic Force Microscopy. <i>Advanced Materials</i> , 2004 , 16, 1416-1420 | 24 | 12 |
| 104 | Writing Patterns of Molecules on Molecular Printboards. <i>Angewandte Chemie</i> , 2004 , 116, 373-377 | 3.6 | 61 |

| | | | |
|-----|--|------|-----|
| 103 | Inverted chemical force microscopy: following interfacial reactions on the nanometer scale. <i>European Polymer Journal</i> , 2004 , 40, 939-947 | 5.2 | 7 |
| 102 | Hydrogen-Bonded Assemblies as a Scaffold for Metal-Containing Nanostructures: From Zero to Two Dimensions. <i>Nano Letters</i> , 2004 , 4, 441-446 | 11.5 | 24 |
| 101 | Micro- and nanofabrication of robust reactive arrays based on the covalent coupling of dendrimers to activated monolayers. <i>Langmuir</i> , 2004 , 20, 6216-24 | 4 | 62 |
| 100 | Grafting of single, stimuli-responsive poly(ferrocenylsilane) polymer chains to gold surfaces. <i>Langmuir</i> , 2004 , 20, 6278-87 | 4 | 35 |
| 99 | Atomic force microscopy assisted immobilization of lipid vesicles. <i>Langmuir</i> , 2004 , 20, 7308-12 | 4 | 10 |
| 98 | Beta-cyclodextrin host-guest complexes probed under thermodynamic equilibrium: thermodynamics and AFM force spectroscopy. <i>Journal of the American Chemical Society</i> , 2004 , 126, 1577-84 | 16.4 | 146 |
| 97 | Vesicle adsorption and lipid bilayer formation on glass studied by atomic force microscopy. <i>Langmuir</i> , 2004 , 20, 11600-6 | 4 | 171 |
| 96 | Nanoscale hydrophobic recovery: A chemical force microscopy study of UV/ozone-treated cross-linked poly(dimethylsiloxane). <i>Langmuir</i> , 2004 , 20, 785-94 | 4 | 244 |
| 95 | Reactivity in the Confinement of Self-Assembled Monolayers: Chain Length Effects on the Hydrolysis of N-Hydroxysuccinimide Ester Disulfides on Gold. <i>Langmuir</i> , 2003 , 19, 5780-5786 | 4 | 71 |
| 94 | Tunable Complex Stability in Surface Molecular Recognition Mediated by Self-Complementary Quadruple Hydrogen Bonds. <i>Langmuir</i> , 2003 , 19, 8618-8621 | 4 | 19 |
| 93 | Interfacial Reactions in Confinement: Kinetics and Temperature Dependence of Reactions in Self-Assembled Monolayers Compared to Ultrathin Polymer Films. <i>Langmuir</i> , 2003 , 19, 10843-10851 | 4 | 42 |
| 92 | Photolithographic Polymerization of Diacetylene-Containing Phospholipid Bilayers Studied by Multimode Atomic Force Microscopy. <i>Langmuir</i> , 2003 , 19, 6994-7002 | 4 | 56 |
| 91 | Nucleation and Crystallization of Low-Crystallinity Polypropylene Followed in Situ by Hot Stage Atomic Force Microscopy. <i>Macromolecules</i> , 2003 , 36, 2412-2418 | 5.5 | 52 |
| 90 | Ultrathin Films of Poly(ethylene oxides) on Oxidized Silicon. 1. Spectroscopic Characterization of Film Structure and Crystallization Kinetics. <i>Macromolecules</i> , 2003 , 36, 1188-1198 | 5.5 | 191 |
| 89 | Ultrathin Films of Poly(ethylene oxides) on Oxidized Silicon. 2. In Situ Study of Crystallization and Melting by Hot Stage AFM. <i>Macromolecules</i> , 2003 , 36, 1199-1208 | 5.5 | 165 |
| 88 | Non-Covalent Chemistry on Surface-Confined, Isolated Dendrimers. <i>Advanced Functional Materials</i> , 2002 , 12, 811-818 | 15.6 | 21 |
| 87 | Unraveling the nanostructure of supramolecular assemblies of hydrogen-bonded rosettes on graphite: an atomic force microscopy study. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 5024-7 | 11.5 | 29 |
| 86 | Anchoring and orientational wetting of nematic liquid crystals on semi-fluorinated self-assembled monolayer surfaces. <i>Europhysics Letters</i> , 2002 , 59, 410-416 | 1.6 | 26 |

| | | | |
|----|---|------|-----|
| 85 | Surface Morphology and Molecular Ordering in Thin Films of Polymerizable Triphenylene Discotic Liquid Crystals on HOPG Revealed by Atomic Force Microscopy. <i>Langmuir</i> , 2002 , 18, 7082-7085 | 4 | 20 |
| 84 | Morphology of Thermoplastic Elastomers: Elastomeric Polypropylene. <i>Macromolecules</i> , 2002 , 35, 2654-2666 | 5.6 | 57 |
| 83 | Chain Length and Concentration Dependence of Cyclodextrin-ferrocene Host-Guest Complex Rupture Forces Probed by Dynamic Force Spectroscopy. <i>Langmuir</i> , 2002 , 18, 6988-6994 | 4 | 83 |
| 82 | Analyzing the Surface Temperature Depression in Hot Stage Atomic Force Microscopy with Unheated Cantilevers: Application to the Crystallization of Poly(ethylene oxide). <i>Langmuir</i> , 2002 , 18, 490-498 | 4 | 38 |
| 81 | AFM Study on Lattice Orientation and Tribology of SAMS of Fluorinated Thiols and Disulfides on Au(111): The Influence of the Molecular Structure. <i>ACS Symposium Series</i> , 2001 , 15-30 | 0.4 | 2 |
| 80 | Chemistry on surface-confined molecules: an approach to anchor isolated functional units to surfaces. <i>Journal of the American Chemical Society</i> , 2001 , 123, 6388-95 | 16.4 | 51 |
| 79 | . <i>Chemistry - A European Journal</i> , 2000 , 6, 1176-1183 | 4.8 | 32 |
| 78 | Scanning tunneling microscopy investigation of tricycloquinazoline liquid crystals on gold. <i>Thin Solid Films</i> , 2000 , 358, 241-249 | 2.2 | 9 |
| 77 | Individual Supramolecular Host-Guest Interactions Probed by Dynamic Single Molecule Force Spectroscopy. <i>ACS Symposium Series</i> , 2000 , 113-128 | 0.4 | 1 |
| 76 | Kinetics and Domain Formation in Surface Reactions by Inverted Chemical Force Microscopy and FTIR Spectroscopy. <i>ACS Symposium Series</i> , 2000 , 36-57 | 0.4 | 3 |
| 75 | Semifluorinated/Hydrogenated Alkylthiol Thin Films: A Comparison between Disulfides and Thiol Binary Mixtures. <i>Langmuir</i> , 2000 , 16, 1734-1743 | 4 | 44 |
| 74 | Cation sensing by patterned self-assembled monolayers on gold. <i>Perkin Transactions II RSC</i> , 2000 , 2141-2146 | | 20 |
| 73 | Monitoring Surface Reactions at an AFM Tip: An Approach To Follow Reaction Kinetics in Self-Assembled Monolayers on the Nanometer Scale. <i>Journal of the American Chemical Society</i> , 2000 , 122, 3679-3687 | 16.4 | 41 |
| 72 | Towards mapping of functional group distributions in functional polymers by AFM force titration measurements. <i>Chemical Communications</i> , 2000 , 1303-1304 | 5.8 | 13 |
| 71 | Individual Supramolecular Host-Guest Interactions Studied by Dynamic Single Molecule Force Spectroscopy. <i>Journal of the American Chemical Society</i> , 2000 , 122, 4963-4967 | 16.4 | 156 |
| 70 | Distributions of Functional Groups in Plasma Polymerized Allylamine Films by Scanning Force Microscopy Using Functionalized Probe Tips. <i>Chemistry of Materials</i> , 2000 , 12, 3689-3694 | 9.6 | 47 |
| 69 | Toward High Resolution Mapping of Functional Group Distributions at Surface-Treated Polymers by AFM Using Modified Tips. <i>Macromolecules</i> , 2000 , 33, 4532-4537 | 5.5 | 57 |
| 68 | Insertion of Individual Dendrimer Molecules into Self-Assembled Monolayers on Gold: A Mechanistic Study. <i>Langmuir</i> , 2000 , 16, 7757-7763 | 4 | 35 |

| | | | |
|----|--|------|----|
| 67 | Host-guest interactions at self-assembled monolayers of cyclodextrins on gold. <i>Chemistry - A European Journal</i> , 2000 , 6, 1176-83 | 4.8 | 77 |
| 66 | Molecular Alignment and Nanotribology of Polymeric Solids Studied by Lateral Force Microscopy. <i>ACS Symposium Series</i> , 1999 , 317-335 | 0.4 | 5 |
| 65 | Atomic Force Microscopy of Elastomers: Morphology, Distribution of Filler Particles, and Adhesion Using Chemically Modified Tips. <i>Rubber Chemistry and Technology</i> , 1999 , 72, 862-875 | 1.7 | 25 |
| 64 | First examples of functionalized triphenylene discotic dimers: molecular engineering of advanced materials. <i>Liquid Crystals</i> , 1999 , 26, 1567-1571 | 2.3 | 21 |
| 63 | Electrophilic aromatic substitution in triphenylene discotics: Synthesis of alkoxy-nitrotriphenylenes. <i>Liquid Crystals</i> , 1999 , 26, 1455-1466 | 2.3 | 24 |
| 62 | Factors affecting the preparation of permanently end-grafted polystyrene layers. <i>Polymer</i> , 1999 , 40, 525-530 | 3.9 | 36 |
| 61 | Tribological properties of self-assembled monolayers of fluorocarbon and hydrocarbon thiols and disulfides on Au(111) studied by scanning force microscopy. <i>Materials Science and Engineering C</i> , 1999 , 8-9, 243-249 | 8.3 | 29 |
| 60 | Microcontact Printing of Lipophilic Self-Assembled Monolayers for the Attachment of Biomimetic Lipid Bilayers to Surfaces. <i>Journal of the American Chemical Society</i> , 1999 , 121, 5274-5280 | 16.4 | 98 |
| 59 | Trägerfixierte Metallodendrimere: isolierte Moleküle im Nanomaßstab. <i>Angewandte Chemie</i> , 1999 , 111, 2385-2389 | 3.6 | 8 |
| 58 | Surface-Confined Metallodendrimers: Isolated Nanosize Molecules. <i>Angewandte Chemie - International Edition</i> , 1999 , 38, 2248-2251 | 16.4 | 35 |
| 57 | Lattice Structure of Self-Assembled Monolayers of Dialkyl Sulfides and Calix[4]arene Sulfide Adsorbates on Au(111) Revealed by Atomic Force Microscopy. <i>Langmuir</i> , 1999 , 15, 5541-5546 | 4 | 49 |
| 56 | Monolayers of asymmetrical diethylalkanoat disulfides on gold(111): the influence of chain length difference on atomic force microscope images. <i>Applied Physics A: Materials Science and Processing</i> , 1998 , 66, S1261-S1266 | 2.6 | 7 |
| 55 | Surface properties of oxidized LDPE by scanning force microscopy with chemically modified probes. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1998 , 36, 2483-2492 | 2.6 | 23 |
| 54 | Supramolecular Materials: Molecular Packing of Tetranitrotetrapropoxycalix[4]arene in Highly Stable Films with Second-Order Nonlinear Optical Properties. <i>Chemistry - A European Journal</i> , 1998 , 4, 1225-1234 | 4.8 | 32 |
| 53 | The mechanism of PTFE and PE friction deposition: a combined scanning electron and scanning force microscopy study on highly oriented polymeric sliders. <i>Polymer</i> , 1998 , 39, 5705-5709 | 3.9 | 23 |
| 52 | Scanning Force Microscopy Studies on Molecular Packing and Friction Anisotropy in Thin Films of Tetranitrotetrapropoxycalix[4]arene. <i>Langmuir</i> , 1998 , 14, 2801-2809 | 4 | 13 |
| 51 | Surface Characterization of Oxyfluorinated Isotactic Polypropylene Films: Scanning Force Microscopy with Chemically Modified Probes and Contact Angle Measurements. <i>Macromolecules</i> , 1998 , 31, 3679-3685 | 5.5 | 46 |
| 50 | Self-Assembled Monolayers of Branched Thiols and Disulfides on Gold: Surface Coverage, Order and Chain Orientation. <i>Langmuir</i> , 1998 , 14, 3003-3010 | 4 | 43 |

| | | | |
|----|--|------|-----|
| 49 | Two-Dimensional Structure of Disulfides and Thiols on Gold(111). <i>Langmuir</i> , 1998 , 14, 808-815 | 4 | 69 |
| 48 | Electrospinning of ultra-thin polymer fibers. <i>Macromolecular Symposia</i> , 1998 , 127, 141-150 | 0.8 | 145 |
| 47 | Morphology, Chain Packing, and Conformation in Uniaxially Oriented Polymers Studied by Scanning Force Microscopy. <i>ACS Symposium Series</i> , 1998 , 67-93 | 0.4 | 2 |
| 46 | Supramolecular Materials: Molecular Packing of Tetranitrotetrapropoxycalix[4]arene in Highly Stable Films with Second-Order Nonlinear Optical Properties 1998 , 4, 1225 | | 1 |
| 45 | Lattice Imaging of Self-Assembled Monolayers of Partially Fluorinated Disulfides and Thiols on Sputtered Gold by Atomic Force Microscopy. <i>Langmuir</i> , 1997 , 13, 3769-3774 | 4 | 54 |
| 44 | Molecular Resolution Imaging and Friction Anisotropy of Highly Oriented Polyethylene and Poly(tetrafluoroethylene) by Scanning Force Microscopy with Chemically Modified Probes. <i>Macromolecules</i> , 1997 , 30, 6391-6394 | 5.5 | 34 |
| 43 | An Atomic Force Microscopy Study of Self-Assembled Monolayers of Calix[4]resorcinarene Adsorbates on Au(111). <i>Langmuir</i> , 1997 , 13, 1567-1570 | 4 | 49 |
| 42 | Self-Assembled Monolayers of Symmetrical and Mixed Alkyl Fluoroalkyl Disulfides on Gold. 2. Investigation of Thermal Stability and Phase Separation. <i>Langmuir</i> , 1996 , 12, 3898-3904 | 4 | 79 |
| 41 | Self-Assembled Monolayers of Discotic Liquid Crystalline Thioethers, Discoid Disulfides, and Thiols on Gold: Molecular Engineering of Ordered Surfaces. <i>Journal of the American Chemical Society</i> , 1996 , 118, 13051-13057 | 16.4 | 72 |
| 40 | Chain Packing in Electro-Spun Poly(ethylene oxide) Visualized by Atomic Force Microscopy. <i>Macromolecules</i> , 1996 , 29, 7634-7636 | 5.5 | 122 |
| 39 | Self-Assembled Monolayers of Symmetrical and Mixed Alkyl Fluoroalkyl Disulfides on Gold. 1. Synthesis of Disulfides and Investigation of Monolayer Properties. <i>Langmuir</i> , 1996 , 12, 3891-3897 | 4 | 82 |
| 38 | Structure of Alkyl and Perfluoroalkyl Disulfide and Azobenzenethiol Monolayers on Gold(111) Revealed by Atomic Force Microscopy. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 2290-2301 | | 92 |
| 37 | The structure of highly textured quasi-single-crystalline high-density polyethylene probed by atomic force microscopy and small-angle X-ray scattering. <i>Polymer</i> , 1995 , 36, 2115-2121 | 3.9 | 24 |
| 36 | Morphological studies of ordered, solid polymers by scanning force microscopy. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1994 , 87, 263-275 | 5.1 | 19 |
| 35 | A nanoscopic view at the spherulitic morphology of isotactic polypropylene by atomic force microscopy. <i>Polymer Bulletin</i> , 1993 , 30, 567-574 | 2.4 | 44 |
| 34 | Coupling Chemistries for the Modification and Functionalization of Surfaces to Create Advanced Biointerfaces1-28 | | |
| 33 | Cyanate Ester Resins as Thermally Stable Adhesives for PEEK145-164 | | 2 |
| 32 | Hierarchical Carbon Nanofibers@Nickel Phosphide Nanoparticles for High-Performance Supercapacitors. <i>Small Structures</i> , 2100183 | 8.7 | 1 |

| | | | |
|----|---|-----|----|
| 31 | AFM: Hydrogen-Bonded Nanostructures52-63 | | |
| 30 | Appendix C: Contact Angle Goniometry471-473 | | 17 |
| 29 | Solid-Supported Bilayer Lipid Membranes221-232 | | 2 |
| 28 | Interaction of Structured and Functionalized Polymers with Cancer Cells233-250 | | 1 |
| 27 | Plasma-Polymerized Allylamine Thin Films for DNA Sensing271-283 | | 1 |
| 26 | Nanoparticles at the Interface: The Electrochemical and Optical Properties of Nanoparticles Assembled into 2D and 3D Structures at Planar Electrode Surfaces323-340 | | 1 |
| 25 | Surface Engineering of Quantum Dots with Designer Ligands341-361 | | 5 |
| 24 | Nanoporous Thin Films as Highly Versatile and Sensitive Waveguide Biosensors383-401 | | 5 |
| 23 | Tutorial Review: Surface Plasmon Resonance-Based Biosensors29-53 | | 0 |
| 22 | Tutorial Review: Surface Modification and Adhesion55-80 | | 2 |
| 21 | Tutorial Review: Modern Biological Sensors81-101 | | 1 |
| 20 | Stimuli-Responsive Polymer Brushes125-144 | | 1 |
| 19 | Defined Colloidal 3D Architectures285-321 | | 1 |
| 18 | Superoleophilic-Hydrophobic Kapok Oil Sorbents via Energy Efficient Carbonization. <i>Journal of Natural Fibers</i> ,1-17 | 1.8 | 1 |
| 17 | Stimuli-Responsive Capsules363-382 | | |
| 16 | Stretching and Rupturing Single Covalent and Associating Macromolecules by AFM-Based Single-Molecule Force Spectroscopy403-427 | | |
| 15 | Quantitative Lateral Force Microscopy429-445 | | |
| 14 | Long-Range Surface Plasmon Enhanced Fluorescence Spectroscopy as a Platform for Biosensors447-461 | | |

- 13 Controlled Block-Copolymer Thin-Film Architectures 103-124
- 12 Structured and Functionalized Polymer Thin-Film Architectures 165-180
- 11 Surface Chemistry in Forensic-Toxicological Analysis 181-206
- 10 Appendix A: Material Structure and Surface Analysis 463-466
- 9 Appendix J: Waveguide Mode Spectroscopy (WaMs) Thin-Thick Films 491-492
- 8 Appendix K: X-Ray Photoelectron Spectroscopy (XPS) 493-496
- 7 Appendix B: Atomic Force Microscopy 467-470
- 6 Appendix D: Ellipsometry 474-475
- 5 Appendix E: Fourier Transform Infrared Spectroscopy 476-478
- 4 Appendix F: Impedance Spectroscopy 479-482
- 3 Appendix I: Optical Waveguide Spectroscopy (OWS) Thin-Thick Films 488-490
- 2 Modification of Surfaces by Photosensitive Silanes 207-220
- 1 Fabrication and Application of Surface-Tethered Vesicles 251-269