

Holger Schnherr

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#	Paper	IF	Citations
3 ¹⁸	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
3 ¹⁷	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
3 ¹⁶	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
3 ¹⁵	Superstability of surface nanobubbles. <i>Physical Review Letters</i> , 2007 , 98, 204502	7.4	176
3 ¹⁴	Vesicle adsorption and lipid bilayer formation on glass studied by atomic force microscopy. <i>Langmuir</i> , 2004 , 20, 11600-6	4	171
3 ¹³	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
3 ¹²	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
3 ¹¹	Writing patterns of molecules on molecular printboards. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 369-73	16.4	149
3 ¹⁰	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
3 ⁰⁹	Electrospinning of ultra-thin polymer fibers. <i>Macromolecular Symposia</i> , 1998 , 127, 141-150	0.8	145
3 ⁰⁸	Chain Packing in Electro-Spun Poly(ethylene oxide) Visualized by Atomic Force Microscopy. <i>Macromolecules</i> , 1996 , 29, 7634-7636	5.5	122
3 ⁰⁷	Stretching and rupturing individual supramolecular polymer chains by AFM. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 956-9	16.4	98
3 ⁰⁶	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
3 ⁰⁵	Block-copolymer vesicles as nanoreactors for enzymatic reactions. <i>Small</i> , 2009 , 5, 1436-45	11	96
3 ⁰⁴	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
3 ⁰³	Surface-Grafted, Covalently Cross-Linked Hydrogel Brushes with Tunable Interfacial and Bulk Properties. <i>Macromolecules</i> , 2011 , 44, 5344-5351	5.5	89
3 ⁰²	Chain Length and Concentration Dependence of β -Cyclodextrin/ferrocene Host-Guest Complex Rupture Forces Probed by Dynamic Force Spectroscopy. <i>Langmuir</i> , 2002 , 18, 6988-6994	4	83

301	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
300	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
299	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
298	Host-guest interactions at self-assembled monolayers of cyclodextrins on gold. <i>Chemistry - A European Journal</i> , 2000 , 6, 1176-83	4.8	77
297	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
296	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
295	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
294	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
293	Quantitative nanotribology by AFM: a novel universal calibration platform. <i>Langmuir</i> , 2006 , 22, 2340-50	4	69
292	Two-Dimensional Structure of Disulfides and Thiols on Gold(111). <i>Langmuir</i> , 1998 , 14, 808-815	4	69
291	Supramolecular microcontact printing and dip-pen nanolithography on molecular printboards. <i>Chemistry - A European Journal</i> , 2005 , 11, 3988-96	4.8	67
290	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
289	Writing Patterns of Molecules on Molecular Printboards. <i>Angewandte Chemie</i> , 2004 , 116, 373-377	3.6	61
288	Battery-like Supercapacitors from Vertically Aligned Carbon Nanofiber Coated Diamond: Design and Demonstrator. <i>Advanced Energy Materials</i> , 2018 , 8, 1702947	21.8	59
287	Reactive thin polymer films as platforms for the immobilization of biomolecules. <i>Biomacromolecules</i> , 2005 , 6, 3243-51	6.9	59
286	Morphology of Thermoplastic Elastomers: Elastomeric Polypropylene. <i>Macromolecules</i> , 2002 , 35, 2654-2656	3.6	57
285	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
284	Photolithographic Polymerization of Diacetylene-Containing Phospholipid Bilayers Studied by Multimode Atomic Force Microscopy. <i>Langmuir</i> , 2003 , 19, 6994-7002	4	56

283	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
282	Electrochemical Supercapacitors from Diamond. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 18918-18926	3.8	53
281	Closed mechanochemical cycles of individual single-chain macromolecular motors by AFM. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 8400-4	16.4	53
280	Preparation of a poly-nanocage dyanmer: 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
279	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
278	Force Spectroscopy of Individual Stimulus-Responsive Poly(ferrocenyldimethylsilane) Chains: Towards a Redox-Driven Macromolecular Motor. <i>Macromolecular Rapid Communications</i> , 2006 , 27, 103-108	1.8	51
277	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
276	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
275	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
274	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
273	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
272	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
271	Chondroitin-6-Sulfate Enhances the Biomineralization and Osteogenic Differentiation of Electrospun Polyhydroxybutyrate and Polyhydroxybutyrate Valerate Fibers. <i>Biomacromolecules</i> , 2017 , 18, 1563-1573	6.9	45
270	Characterization of the interaction between AFM tips and surface nanobubbles. <i>Langmuir</i> , 2014 , 30, 7114-26	2.6	45
269	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
268	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
267	Semifluorinated/Hydrogenated Alkylthiol Thin Films: A Comparison between Disulfides and Thiol Binary Mixtures. <i>Langmuir</i> , 2000 , 16, 1734-1743	4	44
266	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

265	Nanoscale thermal AFM of polymers: transient heat flow effects. <i>ACS Nano</i> , 2010 , 4, 6932-40	16.7	43
264	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
263	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
262	Mechanical properties of block copolymer vesicle membranes by atomic force microscopy. <i>Soft Matter</i> , 2009 , 5, 4944	3.6	42
261	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
260	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
259	Enzyme-sensing chitosan hydrogels. <i>Langmuir</i> , 2014 , 30, 7842-50	4	41
258	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
257	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
256	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
255	Encapsulation of Autoinducer Sensing Reporter Bacteria in Reinforced Alginate-Based Microbeads. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 22321-22331	9.5	39
254	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
253	Free-standing 3D supramolecular hybrid particle structures. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 983-7	16.4	39
252	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
251	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
250	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
249	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
248	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

247	Construction of three-dimensional DNA hydrogels from linear building blocks. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 8328-32	16.4	36
246	Polymerization of diacetylene phospholipid bilayers on solid substrate: influence of the film deposition temperature. <i>Langmuir</i> , 2007 , 23, 12254-60	4	36
245	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
244	Factors affecting the preparation of permanently end-grafted polystyrene layers. <i>Polymer</i> , 1999 , 40, 525-530	3.9	36
243	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
242	Grafting of single, stimuli-responsive poly(ferrocenylsilane) polymer chains to gold surfaces. <i>Langmuir</i> , 2004 , 20, 6278-87	4	35
241	Insertion of Individual Dendrimer Molecules into Self-Assembled Monolayers on Gold: A Mechanistic Study. <i>Langmuir</i> , 2000 , 16, 7757-7763	4	35
240	Surface-Confined Metallo-dendrimers: Isolated Nanosize Molecules. <i>Angewandte Chemie - International Edition</i> , 1999 , 38, 2248-2251	16.4	35
239	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
238	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
237	Novel pH responsive hydrogels for controlled cell adhesion and triggered surface detachment. <i>Soft Matter</i> , 2012 , 8, 9539	3.6	33
236	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
235	Control of Cell Attachment and Spreading on Poly(acrylamide) Brushes with Varied Grafting Density. <i>Langmuir</i> , 2016 , 32, 838-47	4	32
234	Controlled Wettability of Diamond/BSiC Composite Thin Films for Biosensoric Applications. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 20207-20212	3.8	32
233	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
232	. <i>Chemistry - A European Journal</i> , 2000 , 6, 1176-1183	4.8	32
231	Scanning Force Microscopy of Polymers 2010 ,		31
230	Flexible Diamond Fibers for High-Energy-Density Zinc-Ion Supercapacitors. <i>Advanced Energy Materials</i> , 2020 , 10, 2002202	21.8	31

229	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
228	Calibration of friction force signals in atomic force microscopy in liquid media. <i>Langmuir</i> , 2007 , 23, 7078-82	8.2	30
227	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
226	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
225	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
224	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
223	Controlled surface chemistry of diamond/BSiC composite films for preferential protein adsorption. <i>Langmuir</i> , 2014 , 30, 1089-99	4	26
222	Encapsulation and release of molecular cargos via temperature-induced vesicle-to-micelle transitions. <i>Small</i> , 2010 , 6, 2762-8	11	26
221	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
220	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
219	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
218	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
217	Autonomously Sensing Hydrogels for the Rapid and Selective Detection of Pathogenic Bacteria. <i>Macromolecular Rapid Communications</i> , 2015 , 36, 2123-8	4.8	25
216	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
215	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
214	Freestanding 3D supramolecular particle bridges: fabrication and mechanical behavior. <i>Small</i> , 2009 , 5, 1428-35	11	24
213	Probing single enzyme kinetics in real-time. <i>Chemical Society Reviews</i> , 2009 , 38, 2671-83	58.5	24
212	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

211	Electrophilic aromatic substitution in triphenylene discotics: Synthesis of alkoxy-nitrotriphenylenes. <i>Liquid Crystals</i> , 1999 , 26, 1455-1466	2.3	24
210	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
209	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
208	Modeling the Interaction between AFM Tips and Pinned Surface Nanobubbles. <i>Langmuir</i> , 2016 , 32, 751-84		23
207	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
206	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
205	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
204	Preferred sizes and ordering in surface nanobubble populations. <i>Physical Review E</i> , 2009 , 80, 036315	2.4	22
203	Reactive OP 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
202	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
201	3D 3C-SiC/Graphene Hybrid Nanolaminate Films for High-Performance Supercapacitors. <i>Small</i> , 2018 , 14, e1801857	11	22
200	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
199	Synthesis and characterization of well-defined ligand-terminated block copolymer brushes for multifunctional biointerfaces. <i>Polymer</i> , 2016 , 98, 409-420	3.9	21
198	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
197	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
196	Non-Covalent Chemistry on Surface-Confined, Isolated Dendrimers. <i>Advanced Functional Materials</i> , 2002 , 12, 811-818	15.6	21
195	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
194	First examples of functionalized triphenylene discotic dimers: molecular engineering of advanced materials. <i>Liquid Crystals</i> , 1999 , 26, 1567-1571	2.3	21

193	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
192	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
191	Thickness Dependence of Bovine Serum Albumin Adsorption on Thin Thermoresponsive Poly(diethylene glycol) Methyl Ether Methacrylate Brushes by Surface Plasmon Resonance Measurements. <i>Langmuir</i> , 2016 , 32, 9360-70	4	20
190	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
189	A highly efficient self-assembly of responsive C(2) -cyclohexane-derived gelators. <i>Macromolecular Rapid Communications</i> , 2012 , 33, 1535-41	4.8	20
188	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
187	Cation sensing by patterned self-assembled monolayers on gold. <i>Perkin Transactions II RSC</i> , 2000 , 2141-2146		20
186	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
185	Nanomechanical Properties of Oligo(ethylene glycol methacrylate) Polymer Brush-Based Biointerfaces. <i>Advanced Engineering Materials</i> , 2011 , 13, B369-B376	3.5	19
184	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
183	Tunable Complex Stability in Surface Molecular Recognition Mediated by Self-Complementary Quadruple Hydrogen Bonds. <i>Langmuir</i> , 2003 , 19, 8618-8621	4	19
182	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
181	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
180	Pristine DNA Hydrogels from Biotechnologically Derived Plasmid DNA. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 12004-12008	16.4	18
179	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
178	Phosphorus-Doped Nanocrystalline Diamond for Supercapacitor Application. <i>ChemElectroChem</i> , 2019 , 6, 1088-1093	4.3	18
177	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
176	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

175	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
174	Surface relaxations of poly(methyl methacrylate) assessed by friction force microscopy on the nanoscale. <i>Soft Matter</i> , 2009 , 5, 1489	3.6	17
173	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
172	Appendix C: Contact Angle Goniometry 471-473		17
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