Holger SchÃ¶nherr

List of Publications by Year
in descending order

307	10,047	39113 52	68831 81
papers	citations	h-index	g-index

337	337	337	11795
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enhanced Removal of Methylene Blue and Methyl Violet Dyes from Aqueous Solution Using a Nanocomposite of Hydrolyzed Polyacrylamide Grafted Xanthan Gum and Incorporated Nanosilica. ACS Applied Materials & Interfaces, 2014, 6, 4766-4777.	4.0	462
2	Nanoscale Hydrophobic Recovery:Â A Chemical Force Microscopy Study of UV/Ozone-Treated Cross-Linked Poly(dimethylsiloxane). Langmuir, 2004, 20, 785-794.	1.6	272
3	Ultrathin Films of Poly(ethylene oxides) on Oxidized Silicon. 1. Spectroscopic Characterization of Film Structure and Crystallization Kinetics. Macromolecules, 2003, 36, 1188-1198.	2.2	222
4	Superstability of Surface Nanobubbles. Physical Review Letters, 2007, 98, 204502.	2.9	190
5	Vesicle Adsorption and Lipid Bilayer Formation on Glass Studied by Atomic Force Microscopy. Langmuir, 2004, 20, 11600-11606.	1.6	188
6	Individual Supramolecular Hostâ^'Guest Interactions Studied by Dynamic Single Molecule Force Spectroscopy. Journal of the American Chemical Society, 2000, 122, 4963-4967.	6.6	179
7	Ultrathin Films of Poly(ethylene oxides) on Oxidized Silicon. 2. In Situ Study of Crystallization and Melting by Hot Stage AFM. Macromolecules, 2003, 36, 1199-1208.	2.2	179
8	Electrospinning of ultraâ€thin polymer fibers. Macromolecular Symposia, 1998, 127, 141-150.	0.4	165
9	Writing Patterns of Molecules on Molecular Printboards. Angewandte Chemie - International Edition, 2004, 43, 369-373.	7.2	162
10	Î²-Cyclodextrin Hostâ^'Guest Complexes Probed under Thermodynamic Equilibrium:Â Thermodynamics and AFM Force Spectroscopy. Journal of the American Chemical Society, 2004, 126, 1577-1584.	6.6	162
11	Chain Packing in Electro-Spun Poly(ethylene oxide) Visualized by Atomic Force Microscopy. Macromolecules, 1996, 29, 7634-7636.	2.2	136
12	Stretching and Rupturing Individual Supramolecular Polymer Chains by AFM. Angewandte Chemie - International Edition, 2005, 44, 956-959.	7.2	113
13	Blockâ€Copolymer Vesicles as Nanoreactors for Enzymatic Reactions. Small, 2009, 5, 1436-1445.	5.2	105
14	Microcontact Printing of Lipophilic Self-Assembled Monolayers for the Attachment of Biomimetic Lipid Bilayers to Surfaces. Journal of the American Chemical Society, 1999, 121, 5274-5280.	6.6	104
15	Enzyme Degradable Polymersomes from Hyaluronic Acid-block-poly(Îµ-caprolactone) Copolymers for the Detection of Enzymes of Pathogenic Bacteria. Biomacromolecules, 2015, 16, 832-841.	2.6	100
16	Structure of Alkyl and Perfluoroalkyl Disulfide and Azobenzenethiol Monolayers on Gold(111) Revealed by Atomic Force Microscopy. The Journal of Physical Chemistry, 1996, 100, 2290-2301.	2.9	99
17	Surface-Grafted, Covalently Cross-Linked Hydrogel Brushes with Tunable Interfacial and Bulk Properties. Macromolecules, 2011, 44, 5344-5351.	2.2	94
18	Force Spectroscopy of Quadruple H-Bonded Dimers by AFM:Â Dynamic Bond Rupture and Molecular Timeâ^'Temperature Superposition. Journal of the American Chemical Society, 2005, 127, 11230-11231.	6.6	92

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19	Chain Length and Concentration Dependence of Î²-Cyclodextrinâ^'Ferrocene Hostâ^'Guest Complex Rupture Forces Probed by Dynamic Force Spectroscopy. Langmuir, 2002, 18, 6988-6994.	1.6	90
20	Self-Assembled Monolayers of Symmetrical and Mixed Alkyl Fluoroalkyl Disulfides on Gold. 1. Synthesis of Disulfides and Investigation of Monolayer Properties. Langmuir, 1996, 12, 3891-3897.	1.6	86
21	Self-Assembled Monolayers of Symmetrical and Mixed Alkyl Fluoroalkyl Disulfides on Gold. 2. Investigation of Thermal Stability and Phase Separation. Langmuir, 1996, 12, 3898-3904.	1.6	84
22	Self-Assembled Monolayers of Discotic Liquid Crystalline Thioethers, Discoid Disulfides, and Thiols on Gold:Â Molecular Engineering of Ordered Surfaces. Journal of the American Chemical Society, 1996, 118, 13051-13057.	6.6	83
23	Host-Guest Interactions at Self-Assembled Monolayers of Cyclodextrins on Gold. Chemistry - A European Journal, 2000, 6, 1176-1183.	1.7	81
24	Quantitative Nanotribology by AFM:Â A Novel Universal Calibration Platform. Langmuir, 2006, 22, 2340-2350.	1.6	80
25	Contact Angles of Surface Nanobubbles on Mixed Self-Assembled Monolayers with Systematically Varied Macroscopic Wettability by Atomic Force Microscopy. Langmuir, 2011, 27, 8223-8232.	1.6	80
26	Reactivity in the Confinement of Self-Assembled Monolayers:Â Chain Length Effects on the Hydrolysis ofN-Hydroxysuccinimide Ester Disulfides on Gold. Langmuir, 2003, 19, 5780-5786.	1.6	76
27	Two-Dimensional Structure of Disulfides and Thiols on Gold(111). Langmuir, 1998, 14, 808-815.	1.6	71
28	Batteryâ€like Supercapacitors from Vertically Aligned Carbon Nanofiber Coated Diamond: Design and Demonstrator. Advanced Energy Materials, 2018, 8, 1702947.	10.2	70
29	Supramolecular Microcontact Printing and Dip-Pen Nanolithography on Molecular Printboards. Chemistry - A European Journal, 2005, 11, 3988-3996.	1.7	69
30	Flexible Diamond Fibers for Highâ€Energyâ€Density Zincâ€Ion Supercapacitors. Advanced Energy Materials, 2020, 10, 2002202.	10.2	69
31	Electrochemical Supercapacitors from Diamond. Journal of Physical Chemistry C, 2015, 119, 18918-18926.	1.5	68
32	Îº-Carrageenan Enhances the Biomineralization and Osteogenic Differentiation of Electrospun Polyhydroxybutyrate and Polyhydroxybutyrate Valerate Fibers. Biomacromolecules, 2017, 18, 1563-1573.	2.6	68
33	Micro- and Nanofabrication of Robust Reactive Arrays Based on the Covalent Coupling of Dendrimers to Activated Monolayers. Langmuir, 2004, 20, 6216-6224.	1.6	64
34	Reactive Thin Polymer Films as Platforms for the Immobilization of Biomolecules. Biomacromolecules, 2005, 6, 3243-3251.	2.6	63
35	Morphology of Thermoplastic Elastomers:Â Elastomeric Polypropylene. Macromolecules, 2002, 35, 2654-2666.	2.2	62
36	Encapsulation of Autoinducer Sensing Reporter Bacteria in Reinforced Alginate-Based Microbeads. ACS Applied Materials & Interfaces, 2017, 9, 22321-22331.	4.0	62

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37	Toward High Resolution Mapping of Functional Group Distributions at Surface-Treated Polymers by AFM Using Modified Tips. Macromolecules, 2000, 33, 4532-4537.	2.2	61
38	Achieving Ultrahigh Energy Densities of Supercapacitors with Porous Titanium Carbide/Boronâ€Doped Diamond Composite Electrodes. Advanced Energy Materials, 2019, 9, 1803623.	10.2	61
39	Photolithographic Polymerization of Diacetylene-Containing Phospholipid Bilayers Studied by Multimode Atomic Force Microscopy. Langmuir, 2003, 19, 6994-7002.	1.6	59
40	Antimicrobial Photodynamic Therapy: Latest Developments with a Focus on Combinatory Strategies. Pharmaceutics, 2021, 13, 1995.	2.0	59
41	Bioinspired Hierarchically Structured Surfaces for Efficient Capture and Release of Circulating Tumor Cells. ACS Applied Materials & Interfaces, 2017, 9, 8508-8518.	4.0	58
42	An Atomic Force Microscopy Study of Self-Assembled Monolayers of Calix[4]resorcinarene Adsorbates on Au(111). Langmuir, 1997, 13, 1567-1570.	1.6	57
43	Lattice Imaging of Self-Assembled Monolayers of Partially Fluorinated Disulfides and Thiols on Sputtered Gold by Atomic Force Microscopy. Langmuir, 1997, 13, 3769-3774.	1.6	56
44	Closed Mechanoelectrochemical Cycles of Individual Singleâ€Chain Macromolecular Motors by AFM. Angewandte Chemie - International Edition, 2007, 46, 8400-8404.	7.2	56
45	Surface Characterization of Oxyfluorinated Isotactic Polypropylene Films:Â Scanning Force Microscopy with Chemically Modified Probes and Contact Angle Measurements. Macromolecules, 1998, 31, 3679-3685.	2.2	55
46	Effect of Chirality on Cell Spreading and Differentiation: From Chiral Molecules to Chiral Self-Assembly. ACS Applied Materials & Interfaces, 2019, 11, 38568-38577.	4.0	55
47	Chemistry on Surface-Confined Molecules:Â An Approach to Anchor Isolated Functional Units to Surfaces. Journal of the American Chemical Society, 2001, 123, 6388-6395.	6.6	54
48	Nucleation and Crystallization of Low-Crystallinity Polypropylene Followed in Situ by Hot Stage Atomic Force Microscopy. Macromolecules, 2003, 36, 2412-2418.	2.2	54
49	Characterization of the Interaction between AFM Tips and Surface Nanobubbles. Langmuir, 2014, 30, 7112-7126.	1.6	54
50	Surface Nanobubbles Studied by Time-Resolved Fluorescence Microscopy Methods Combined with AFM: The Impact of Surface Treatment on Nanobubble Nucleation. Langmuir, 2016, 32, 11155-11163.	1.6	54
51	Ruthenium(II) Polypyridyl Complexes as Photosensitizers for Antibacterial Photodynamic Therapy: A Structureâ€“Activity Study on Clinical Bacterial Strains. ChemMedChem, 2018, 13, 2229-2239.	1.6	54
52	A nanoscopic view at the spherulitic morphology of isotactic polypropylene by atomic force microscopy. Polymer Bulletin, 1993, 30, 567-574.	1.7	53
53	Lattice Structure of Self-Assembled Monolayers of Dialkyl Sulfides and Calix[4]arene Sulfide Adsorbates on Au(111) Revealed by Atomic Force Microscopy. Langmuir, 1999, 15, 5541-5546.	1.6	53
54	Preparation of a Poly-nanocage Dynamer: Correlating the Growth of Polymer Strands Using Constitutional Dynamic Chemistry and Heteroleptic Aggregation. Journal of the American Chemical Society, 2012, 134, 150-153.	6.6	53

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55	The effect of PeakForce tapping mode AFM imaging on the apparent shape of surface nanobubbles. Journal of Physics Condensed Matter, 2013, 25, 184005.	0.7	53
56	Force Spectroscopy of Individual Stimulus-Responsive Poly(ferrocenyldimethylsilane) Chains: Towards a Redox-Driven Macromolecular Motor. Macromolecular Rapid Communications, 2006, 27, 103-108.	2.0	52
57	Rapid Detection of Escherichia coli via Enzymatically Triggered Reactions in Self-Reporting Chitosan Hydrogels. ACS Applied Materials & Interfaces, 2015, 7, 20190-20199.	4.0	51
58	Dual Enzymeâ€Responsive Capsules of Hyaluronic Acidâ€blockâ€Poly(Lactic Acid) for Sensing Bacterial Enzymes. Macromolecular Rapid Communications, 2015, 36, 1248-1254.	2.0	50
59	Semifluorinated/Hydrogenated Alkylthiol Thin Films:Â A Comparison between Disulfides and Thiol Binary Mixtures. Langmuir, 2000, 16, 1734-1743.	1.6	49
60	Distributions of Functional Groups in Plasma Polymerized Allylamine Films by Scanning Force Microscopy Using Functionalized Probe Tips. Chemistry of Materials, 2000, 12, 3689-3694.	3.2	49
61	Nanoscale Thermal AFM of Polymers: Transient Heat Flow Effects. ACS Nano, 2010, 4, 6932-6940.	7.3	49
62	Scanning Force Microscopy of Polymers. , 2010, , .		49
63	Construction of Threeâ€Dimensional DNA Hydrogels from Linear Building Blocks. Angewandte Chemie - International Edition, 2014, 53, 8328-8332.	7.2	48
64	Enzyme-Sensing Chitosan Hydrogels. Langmuir, 2014, 30, 7842-7850.	1.6	48
65	Chemical Composition of Polymer Surfaces Imaged by Atomic Force Microscopyand Complementary Approaches. Advances in Polymer Science, 2005, , 55-129.	0.4	47
66	Self-Assembled Monolayers of Branched Thiols and Disulfides on Gold:Â Surface Coverage, Order and Chain Orientation. Langmuir, 1998, 14, 3003-3010.	1.6	46
67	Interfacial Reactions in Confinement:Â Kinetics and Temperature Dependence of Reactions in Self-Assembled Monolayers Compared to Ultrathin Polymer Films. Langmuir, 2003, 19, 10843-10851.	1.6	46
68	Fabrication of Robust Biomolecular Patterns by Reactive Microcontact Printing onN-Hydroxysuccinimide Ester-Containing Polymer Films. Advanced Functional Materials, 2006, 16, 1306-1312.	7.8	46
69	Mechanical properties of block copolymer vesicle membranes by atomic force microscopy. Soft Matter, 2009, 5, 4944.	1.2	46
70	Monitoring Surface Reactions at an AFM Tip:Â An Approach To Follow Reaction Kinetics in Self-Assembled Monolayers on the Nanometer Scale. Journal of the American Chemical Society, 2000, 122, 3679-3687.	6.6	44
71	Surface-Confined Metallodendrimers: Isolated Nanosize Molecules. Angewandte Chemie - International Edition, 1999, 38, 2248-2251.	7.2	43
72	Covalently cross-linked poly(acrylamide) brushes on gold with tunable mechanical properties via surface-initiated atom transfer radical polymerization. European Polymer Journal, 2013, 49, 1943-1951.	2.6	43

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73	Dimensions and the Profile of Surface Nanobubbles: Tipâ€“Nanobubble Interactions and Nanobubble Deformation in Atomic Force Microscopy. Langmuir, 2014, 30, 11955-11965.	1.6	43
74	Green seaweeds ulvan-cellulose scaffolds enhance in vitro cell growth and in vivo angiogenesis for skin tissue engineering. Carbohydrate Polymers, 2021, 251, 117025.	5.1	43
75	Host-Guest Interactions at Self-Assembled Monolayers of Cyclodextrins on Gold. Chemistry - A European Journal, 2000, 6, 1176-1183.	1.7	42
76	Reactive Microcontact Printing on Block Copolymer Films: Exploiting Chemistry in Microcontacts for Sub-micrometer Patterning of Biomolecules. Advanced Materials, 2007, 19, 286-290.	11.1	42
77	Closer Look at the Effect of AFM Imaging Conditions on the Apparent Dimensions of Surface Nanobubbles. Langmuir, 2013, 29, 620-632.	1.6	42
78	Freeâ€Standing 3â€‰D Supramolecular Hybrid Particle Structures. Angewandte Chemie - International Edition, 2009, 48, 983-987.	7.2	41
79	Molecular Resolution Imaging and Friction Anisotropy of Highly Oriented Polyethylene and Poly(tetrafluoroethylene) by Scanning Force Microscopy with Chemically Modified Probes. Macromolecules, 1997, 30, 6391-6394.	2.2	40
80	Factors affecting the preparation of permanently end-grafted polystyrene layers. Polymer, 1999, 40, 525-530.	1.8	40
81	Analyzing the Surface Temperature Depression in Hot Stage Atomic Force Microscopy with Unheated Cantilevers:Â Application to the Crystallization of Poly(ethylene oxide). Langmuir, 2002, 18, 490-498.	1.6	40
82	Interfacial Reactions in Confinement:Â Kinetics and Temperature Dependence of the Surface Hydrolysis of Polystyrene-block-poly(tert-butyl acrylate) Thin Films. Langmuir, 2005, 21, 2356-2363.	1.6	40
83	Recent advances for understanding the role of nanobubbles in particles flotation. Advances in Colloid and Interface Science, 2021, 291, 102403.	7.0	40
84	Insertion of Individual Dendrimer Molecules into Self-Assembled Monolayers on Gold:Â A Mechanistic Study. Langmuir, 2000, 16, 7757-7763.	1.6	39
85	Xanthan Gum Hydrogels as High-Capacity Adsorbents for Dye Removal. ACS Applied Polymer Materials, 2021, 3, 3142-3152.	2.0	39
86	Polymerization of Diacetylene Phospholipid Bilayers on Solid Substrate:â€‰ Influence of the Film Deposition Temperature. Langmuir, 2007, 23, 12254-12260.	1.6	38
87	Control of Cell Attachment and Spreading on Poly(acrylamide) Brushes with Varied Grafting Density. Langmuir, 2016, 32, 838-847.	1.6	38
88	Supramolecular Materials: Molecular Packing of Tetranitrotetrapropoxycalix[4]arene in Highly Stable Films with Second-Order Nonlinear Optical Properties. Chemistry - A European Journal, 1998, 4, 1225-1234.	1.7	37
89	Grafting of Single, Stimuli-Responsive Poly(ferrocenylsilane) Polymer Chains to Gold Surfaces. Langmuir, 2004, 20, 6278-6287.	1.6	37
90	Dip-Pen Nanolithography on (Bio)Reactive Monolayer and Block-Copolymer Platforms: Deposition of Lines of Single Macromolecules. Small, 2006, 2, 1274-1282.	5.2	37

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91	Single molecule force spectroscopy of smart poly(ferrocenylsilane) macromolecules: Towards highly controlled redox-driven single chain motors. Polymer, 2006, 47, 2483-2492.	1.8	37
92	Novel pH responsive hydrogels for controlled cell adhesion and triggered surface detachment. Soft Matter, 2012, 8, 9539.	1.2	37
93	Probing single enzyme kinetics in real-time. Chemical Society Reviews, 2009, 38, 2671.	18.7	35
94	Drug Release from Thermoâ€Responsive Polymer Brush Coatings to Control Bacterial Colonization and Biofilm Growth on Titanium Implants. Advanced Healthcare Materials, 2021, 10, e2100069.	3.9	35
95	Rupture Force of Single Supramolecular Bonds in Associative Polymers by AFM at Fixed Loading Rates. Journal of Physical Chemistry B, 2008, 112, 7359-7362.	1.2	34
96	Autonomously Sensing Hydrogels for the Rapid and Selective Detection of Pathogenic Bacteria. Macromolecular Rapid Communications, 2015, 36, 2123-2128.	2.0	34
97	Enhanced cell adhesion on a bio-inspired hierarchically structured polyester modified with gelatin-methacrylate. Biomaterials Science, 2018, 6, 785-792.	2.6	34
98	Electrophilic aromatic substitution in triphenylene discotics: Synthesis of alkoxynitrotriphenylenes. Liquid Crystals, 1999, 26, 1455-1466.	0.9	33
99	Unraveling the nanostructure of supramolecular assemblies of hydrogen-bonded rosettes on graphite: An atomic force microscopy study. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 5024-5027.	3.3	33
100	Controlled Wettability of Diamond/Î²-SiC Composite Thin Films for Biosensoric Applications. Journal of Physical Chemistry C, 2010, 114, 20207-20212.	1.5	33
101	Calibration of Friction Force Signals in Atomic Force Microscopy in Liquid Media. Langmuir, 2007, 23, 7078-7082.	1.6	32
102	Block Copolymer Brushes for Completely Decoupled Control of Determinants of Cellâ€“Surface Interactions. Angewandte Chemie - International Edition, 2016, 55, 13114-13117.	7.2	32
103	Hydrodynamic effects of the tip movement on surface nanobubbles: a combined tapping mode, lift mode and force volume mode AFM study. Soft Matter, 2014, 10, 5945-5954.	1.2	31
104	Real Time Monitoring of Layer-by-Layer Polyelectrolyte Deposition and Bacterial Enzyme Detection in Nanoporous Anodized Aluminum Oxide. Analytical Chemistry, 2015, 87, 3856-3863.	3.2	31
105	Comparative multi-generation study on long-term effects of pristine and wastewater-borne silver and titanium dioxide nanoparticles on key lifecycle parameters in Daphnia magna. NanoImpact, 2019, 14, 100163.	2.4	31
106	Atomic Force Microscopy of Elastomers: Morphology, Distribution of Filler Particles, and Adhesion Using Chemically Modified Tips. Rubber Chemistry and Technology, 1999, 72, 862-875.	0.6	30
107	Tribological properties of self-assembled monolayers of fluorocarbon and hydrocarbon thiols and disulfides on Au(111) studied by scanning force microscopy. Materials Science and Engineering C, 1999, 8-9, 243-249.	3.8	30
108	Controlled Surface Chemistry of Diamond/Î²-SiC Composite Films for Preferential Protein Adsorption. Langmuir, 2014, 30, 1089-1099.	1.6	30

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109	Smart and regeneratable Xanthan gum hydrogel adsorbents for selective removal of cationic dyes. Journal of Environmental Chemical Engineering, 2022, 10, 107620.	3.3	30
110	The structure of highly textured quasi-single-crystalline high-density polyethylene probed by atomic force microscopy and small-angle X-ray scattering. Polymer, 1995, 36, 2115-2121.	1.8	28
111	Inverted Microcontact Printing on Polystyrene-block-Poly(tert-butyl acrylate) Films: A Versatile Approach to Fabricate Structured Biointerfaces Across the Length Scales. Langmuir, 2008, 24, 8841-8849.	1.6	28
112	Encapsulation and Release of Molecular Cargos via Temperatureâ€Induced Vesicleâ€Toâ€Micelle Transitions. Small, 2010, 6, 2762-2768.	5.2	28
113	Synthesis and characterization of well-defined ligand-terminated block copolymer brushes for multifunctional biointerfaces. Polymer, 2016, 98, 409-420.	1.8	28
114	Pristine DNA Hydrogels from Biotechnologically Derived Plasmid DNA. Angewandte Chemie - International Edition, 2017, 56, 12004-12008.	7.2	28
115	Spatiotemporal distribution of silver and silver-containing nanoparticles in a prealpine lake in relation to the discharge from a wastewater treatment plant. Science of the Total Environment, 2019, 696, 134034.	3.9	28
116	Anchoring and orientational wetting of nematic liquid crystals on semi-fluorinated self-assembled monolayer surfaces. Europhysics Letters, 2002, 59, 410-416.	0.7	27
117	Atomic Force Microscopy Based Thermal Lithography of Poly(tert-butyl acrylate) Block Copolymer Films for Bioconjugation. Langmuir, 2008, 24, 10825-10832.	1.6	27
118	3D 3Câ€SiC/Graphene Hybrid Nanolaminate Films for Highâ€Performance Supercapacitors. Small, 2018, 14, e1801857.	5.2	27
119	â€œClickableâ€and Antifouling Block Copolymer Brushes as a Versatile Platform for Peptideâ€Specific Cell Attachment. Macromolecular Bioscience, 2020, 20, e1900354.	2.1	27
120	Surface properties of oxidized LDPE by scanning force microscopy with chemically modified probes. Journal of Polymer Science, Part B: Polymer Physics, 1998, 36, 2483-2492.	2.4	26
121	Hydrogen-Bonded Assemblies as a Scaffold for Metal-Containing Nanostructures:â€‰ From Zero to Two Dimensions. Nano Letters, 2004, 4, 441-446.	4.5	26
122	Freestanding 3D Supramolecular Particle Bridges: Fabrication and Mechanical Behavior. Small, 2009, 5, 1428-1435.	5.2	26
123	Multi-Ligand-Binding Flavoprotein Dodecin as a Key Element for Reversible Surface Modification in Nano-biotechnology. ACS Nano, 2015, 9, 3491-3500.	7.3	26
124	The Effect of Size and Geometry of Poly(acrylamide) Brush-Based Micropatterns on the Behavior of Cells. ACS Applied Materials & Interfaces, 2016, 8, 23591-23603.	4.0	26
125	Biomineralization potential and cellular response of PHB and PHBV blends with natural anionic polysaccharides. Materials Science and Engineering C, 2017, 76, 13-24.	3.8	26
126	Selective Discrimination of Key Enzymes of Pathogenic and Nonpathogenic Bacteria on Autonomously Reporting Shape-Encoded Hydrogel Patterns. ACS Applied Materials & Interfaces, 2018, 10, 5175-5184.	4.0	26

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127	Phosphorusâ€Doped Nanocrystalline Diamond for Supercapacitor Application. ChemElectroChem, 2019, 6, 1088-1093.	1.7	26
128	Tunable Photoâ€Electrochemistry of Patterned TiO₂/BDD Heterojunctions. Small Methods, 2020, 4, 2000257.	4.6	26
129	Impact of wastewater-borne nanoparticles of silver and titanium dioxide on the swimming behaviour and biochemical markers of Daphnia magna: An integrated approach. Aquatic Toxicology, 2020, 220, 105404.	1.9	26
130	First examples of functionalized triphenylene discotic dimers: molecular engineering of advanced materials. Liquid Crystals, 1999, 26, 1567-1571.	0.9	25
131	Poly(ester-ether)s: III. assessment of cell behaviour on nanofibrous scaffolds of PCL, PLLA and PDX blended with amorphous PMeDX. Journal of Materials Chemistry B, 2015, 3, 673-687.	2.9	25
132	Temperatureâ€Controlled Antimicrobial Release from Poly(diethylene glycol methylether) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 547 Td (Growth. Macromolecular Chemistry and Physics, 2016, 217, 2243-2251.	1.1	25
133	Thickness Dependence of Bovine Serum Albumin Adsorption on Thin Thermoresponsive Poly(diethylene) Tj ETQq1 1 0.784314 rgBT /O 2016, 32, 9360-9370.	1.6	25
134	Modeling the Interaction between AFM Tips and Pinned Surface Nanobubbles. Langmuir, 2016, 32, 751-758.	1.6	25
135	Enhanced Differentiation of Human Preosteoblasts on Electrospun Blend Fiber Mats of Polydioxanone and Anionic Sulfated Polysaccharides. ACS Biomaterials Science and Engineering, 2017, 3, 3447-3458.	2.6	25
136	The mechanism of PTFE and PE friction deposition: a combined scanning electron and scanning force microscopy study on highly oriented polymeric sliders. Polymer, 1998, 39, 5705-5709.	1.8	24
137	New Combinatorial Approach for the Investigation of Kinetics and Temperature Dependence of Surface Reactions in Thin Organic Films. Langmuir, 2005, 21, 4393-4399.	1.6	24
138	Preferred sizes and ordering in surface nanobubble populations. Physical Review E, 2009, 80, 036315.	0.8	24
139	Non-Covalent Chemistry on Surface-Confined, Isolated Dendrimers. Advanced Functional Materials, 2002, 12, 811-818.	7.8	23
140	Compositional Mapping of Polymer Surfaces by Chemical Force Microscopy Down to the Nanometer Scale: Reactions in Block Copolymer Microdomains. Macromolecular Symposia, 2005, 230, 149-157.	0.4	23
141	Reactive Î¼CP on ultrathin block copolymer films: Localized chemistry for micro- and nano-scale biomolecular patterning. European Polymer Journal, 2006, 42, 1954-1965.	2.6	23
142	Entropic Effects on the Mechanical Behavior of Dry Polymer Brushes During Nanoindentation by Atomic Force Microscopy. Macromolecules, 2011, 44, 368-374.	2.2	23
143	Catalytic tar removal using TiO2/NiWO4-Ni5TiO7 films. Applied Catalysis B: Environmental, 2019, 249, 155-162.	10.8	23
144	Cation sensing by patterned self-assembled monolayers on gold. Perkin Transactions II RSC, 2000, , 2141-2146.	1.1	22

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145	Tunable Complex Stability in Surface Molecular Recognition Mediated by Self-Complementary Quadruple Hydrogen Bonds. Langmuir, 2003, 19, 8618-8621.	1.6	22
146	Nanomechanical Properties of Oligo(ethylene glycol methacrylate) Polymer Brushâ€Based Biointerfaces. Advanced Engineering Materials, 2011, 13, B369.	1.6	22
147	A Highly Efficient Selfâ€Assembly of Responsive C₂â€Cyclohexaneâ€Derived Gelators. Macromolecular Rapid Communications, 2012, 33, 1535-1541.	2.0	22
148	Protein Encapsulation: A Nanocarrier Approach to the Fluorescence Imaging of an Enzyme-Based Biomarker. Frontiers in Chemistry, 2020, 8, 389.	1.8	22
149	Multiplexed detection and differentiation of bacterial enzymes and bacteria by color-encoded sensor hydrogels. Bioactive Materials, 2021, 6, 4286-4300.	8.6	22
150	Surface Morphology and Molecular Ordering in Thin Films of Polymerizable Triphenylene Discotic Liquid Crystals on HOPG Revealed by Atomic Force Microscopy. Langmuir, 2002, 18, 7082-7085.	1.6	21
151	Pushing the Size Limits in the Replication of Nanopores in Anodized Aluminum Oxide via the Layer-by-Layer Deposition of Polyelectrolytes. Langmuir, 2012, 28, 10091-10096.	1.6	21
152	Improved synthesis of anodized aluminum oxide with modulated pore diameters for the fabrication of polymeric nanotubes. RSC Advances, 2013, 3, 13429.	1.7	21
153	Multimodal microscopy-based identification of surface nanobubbles. Journal of Colloid and Interface Science, 2019, 547, 162-170.	5.0	21
154	Morphological studies of ordered, solid polymers by scanning force microscopy. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1994, 87, 263-275.	2.3	20
155	Probing buried carbon nanotubes within polymerâ€“nanotube composite matrices by atomic force microscopy. European Polymer Journal, 2007, 43, 4136-4142.	2.6	20
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