

Insung S Choi

List of Publications by Year in descending order

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265
papers

14,611
citations

18436

62
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22764

112
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297
all docs

297
docs citations

297
times ranked

15879
citing authors

#	ARTICLE	IF	CITATIONS
1	A Reversibly Switching Surface. <i>Science</i> , 2003, 299, 371-374.	6.0	1,058
2	Generation of Solution and Surface Gradients Using Microfluidic Systems. <i>Langmuir</i> , 2000, 16, 8311-8316.	1.6	875
3	One-Step Multipurpose Surface Functionalization by Adhesive Catecholamine. <i>Advanced Functional Materials</i> , 2012, 22, 2949-2955.	7.8	436
4	Multi-pulse drug delivery from a resorbable polymeric microchip device. <i>Nature Materials</i> , 2003, 2, 767-772.	13.3	411
5	One-Step Modification of Superhydrophobic Surfaces by a Mussel-Inspired Polymer Coating. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 9401-9404.	7.2	408
6	Mussel-Inspired Encapsulation and Functionalization of Individual Yeast Cells. <i>Journal of the American Chemical Society</i> , 2011, 133, 2795-2797.	6.6	378
7	Norepinephrine: Material-Independent, Multifunctional Surface Modification Reagent. <i>Journal of the American Chemical Society</i> , 2009, 131, 13224-13225.	6.6	298
8	Covalent Modification of Multiwalled Carbon Nanotubes with Imidazolium-Based Ionic Liquids: Effect of Anions on Solubility. <i>Chemistry of Materials</i> , 2006, 18, 1546-1551.	3.2	251
9	Imidazolium Ion-Terminated Self-Assembled Monolayers on Au: Effects of Counteranions on Surface Wettability. <i>Journal of the American Chemical Society</i> , 2004, 126, 480-481.	6.6	240
10	Fabrication of Hairy Polymeric Films Inspired by Geckos: Wetting and High Adhesion Properties. <i>Advanced Functional Materials</i> , 2008, 18, 1089-1096.	7.8	219
11	Mesoscale Self-Assembly of Hexagonal Plates Using Lateral Capillary Forces: Synthesis Using the Capillary Bond. <i>Journal of the American Chemical Society</i> , 1999, 121, 5373-5391.	6.6	212
12	Molecule-Mimetic Chemistry and Mesoscale Self-Assembly. <i>Accounts of Chemical Research</i> , 2001, 34, 231-238.	7.6	211
13	Biomimetic Encapsulation of Individual Cells with Silica. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 9160-9163.	7.2	189
14	Reactive Polymer Coatings: A Platform for Patterning Proteins and Mammalian Cells onto a Broad Range of Materials. <i>Langmuir</i> , 2002, 18, 3632-3638.	1.6	171
15	A Cytoprotective and Degradable Metal-Polyphenol Nanoshell for Single-Cell Encapsulation. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12420-12425.	7.2	164
16	A biofunctionalization scheme for neural interfaces using polydopamine polymer. <i>Biomaterials</i> , 2011, 32, 6374-6380.	5.7	154
17	Formation of Thermoresponsive Gold Nanoparticle/PNIPAAm Hybrids by Surface-Initiated, Atom Transfer Radical Polymerization in Aqueous Media. <i>Macromolecular Chemistry and Physics</i> , 2005, 206, 1941-1946.	1.1	153
18	Highly Efficient Non-Biofouling Coating of Zwitterionic Polymers: Poly((3-(methacryloylamino)propyl)-dimethyl(3-sulfopropyl)ammonium hydroxide). <i>Langmuir</i> , 2007, 23, 5678-5682.	1.6	153

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19	Patterned polymer growth on silicon surfaces using microcontact printing and surface-initiated polymerization. <i>Applied Physics Letters</i> , 1999, 75, 4201-4203.	1.5	152
20	Reactivity of Acetylenyl-Terminated Self-Assembled Monolayers on Gold: Triazole Formation. <i>Langmuir</i> , 2004, 20, 3844-3847.	1.6	149
21	Bioinspired Ultratough Hydrogel with Fast Recovery, Self-Healing, Injectability and Cytocompatibility. <i>Advanced Materials</i> , 2017, 29, 1700759.	11.1	148
22	Cell-in-Shell Hybrids: Chemical Nanoencapsulation of Individual Cells. <i>Accounts of Chemical Research</i> , 2016, 49, 792-800.	7.6	143
23	Surface-Initiated Ring-Opening Metathesis Polymerization on Si/SiO ₂ . <i>Macromolecules</i> , 2000, 33, 2793-2795.	2.2	141
24	Nanocoating of Single Cells: From Maintenance of Cell Viability to Manipulation of Cellular Activities. <i>Advanced Materials</i> , 2014, 26, 2001-2010.	11.1	133
25	Surface-Initiated, Atom Transfer Radical Polymerization of Oligo(ethylene glycol) Methyl Ether Methacrylate and Subsequent Click Chemistry for Bioconjugation. <i>Biomacromolecules</i> , 2007, 8, 744-749.	2.6	132
26	Laser-Material Interactions for Flexible Applications. <i>Advanced Materials</i> , 2017, 29, 1606586.	11.1	132
27	Functionalization of Poly(oligo(ethylene glycol) methacrylate) Films on Gold and Si/SiO ₂ for Immobilization of Proteins and Cells: SPR and QCM Studies. <i>Biomacromolecules</i> , 2007, 8, 3922-3929.	2.6	131
28	Title is missing!. <i>Biomedical Microdevices</i> , 2002, 4, 117-121.	1.4	130
29	Cytoprotective Silica Coating of Individual Mammalian Cells through Bioinspired Silicification. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 8056-8059.	7.2	130
30	Origin of Gate Hysteresis in Carbon Nanotube Field-Effect Transistors. <i>Journal of Physical Chemistry C</i> , 2007, 111, 12504-12507.	1.5	117
31	Cytocompatible Polymer Grafting from Individual Living Cells by Atom-Transfer Radical Polymerization. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15306-15309.	7.2	114
32	Artificial Spores: Cytocompatible Encapsulation of Individual Living Cells within Thin, Tough Artificial Shells. <i>Small</i> , 2013, 9, 178-186.	5.2	108
33	Chemical sporulation and germination: cytoprotective nanocoating of individual mammalian cells with a degradable tannic acid-Fe ^{III} complex. <i>Nanoscale</i> , 2015, 7, 18918-18922.	2.8	106
34	Surface-Initiated Polymerization of L-Lactide: Coating of Solid Substrates with a Biodegradable Polymer. <i>Macromolecules</i> , 2001, 34, 5361-5363.	2.2	103
35	Arrays of Self-Assembled Monolayers for Studying Inhibition of Bacterial Adhesion. <i>Analytical Chemistry</i> , 2002, 74, 1805-1810.	3.2	102
36	Strategic Advances in Formation of Cell-in-Shell Structures: From Syntheses to Applications. <i>Advanced Materials</i> , 2018, 30, e1706063.	11.1	102

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37	Mussel-inspired, perfluorinated polydopamine for self-cleaning coating on various substrates. <i>Chemical Communications</i> , 2014, 50, 11649-11652.	2.2	100
38	Control of Wettability by Anion Exchange on Si/SiO ₂ Surfaces. <i>Langmuir</i> , 2004, 20, 3024-3027.	1.6	95
39	Biphasic Supramolecular Self-Assembly of Ferric Ions and Tannic Acid across Interfaces for Nanofilm Formation. <i>Advanced Materials</i> , 2017, 29, 1700784.	11.1	93
40	Adsorption of 4-Biphenylisocyanide on Gold and Silver Nanoparticle Surfaces: A Surface-Enhanced Raman Scattering Study. <i>Journal of Physical Chemistry B</i> , 2002, 106, 7076-7080.	1.2	92
41	Synthesis of PAMAM Dendrimer Derivatives with Enhanced Buffering Capacity and Remarkable Gene Transfection Efficiency. <i>Bioconjugate Chemistry</i> , 2011, 22, 1046-1055.	1.8	92
42	Bioinspired Functionalization of Silica-Encapsulated Yeast Cells. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 6115-6118.	7.2	91
43	Dispersing of Ag, Pd, and Pt-Ru alloy nanoparticles on single-walled carbon nanotubes by γ -irradiation. <i>Materials Letters</i> , 2005, 59, 1121-1124.	1.3	90
44	In-Vitro Developmental Acceleration of Hippocampal Neurons on Nanostructures of Self-Assembled Silica Beads in Filopodium Size Ranges. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 2855-2858.	7.2	90
45	A New Method toward Microengineered Surfaces Based on Reactive Coating. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 3166-3169.	7.2	89
46	Cytoprotective Alginate/Polydopamine Core/Shell Microcapsules in Microbial Encapsulation. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 14443-14446.	7.2	88
47	Self-Assembly of Hydrogen-Bonded Polymeric Rods Based on the Cyanuric Acid-Melamine Lattice. <i>Chemistry of Materials</i> , 1999, 11, 684-690.	3.2	87
48	Bioinspired, Cytocompatible Mineralization of Silica-Titania Composites: Thermoprotective Nanoshell Formation for Individual <i>Chlorella</i> Cells. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 12279-12282.	7.2	83
49	Formation of Thermoresponsive Poly(N-isopropylacrylamide)/Dextran Particles by Atom Transfer Radical Polymerization. <i>Macromolecular Rapid Communications</i> , 2003, 24, 517-521.	2.0	82
50	Biomimetic Formation of Silica Thin Films by Surface-Initiated Polymerization of 2-(Dimethylamino)ethyl Methacrylate and Silicic Acid. <i>Langmuir</i> , 2004, 20, 7904-7906.	1.6	82
51	Large-Area Patterning by Vacuum-Assisted Micromolding. <i>Advanced Materials</i> , 1999, 11, 946-950.	11.1	80
52	Grafting Nitrilotriacetic Groups onto Carboxylic Acid-Terminated Self-Assembled Monolayers on Gold Surfaces for Immobilization of Histidine-Tagged Proteins. <i>Journal of Physical Chemistry B</i> , 2004, 108, 7665-7673.	1.2	79
53	Macroscopic, Hierarchical, Two-Dimensional Self-Assembly. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 3078-3081.	7.2	76
54	Interactions of Neurons with Physical Environments. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700267.	3.9	76

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55	Laser-induced phase separation of silicon carbide. <i>Nature Communications</i> , 2016, 7, 13562.	5.8	75
56	Antimicrobial spray nanocoating of supramolecular Fe(III)-tannic acid metal-organic coordination complex: applications to shoe insoles and fruits. <i>Scientific Reports</i> , 2017, 7, 6980.	1.6	75
57	Cytoprotective Encapsulation of Individual Jurkat T Cells within Durable TiO ₂ Shells for Tâ€Cell Therapy. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 10702-10706.	7.2	74
58	Frontispiece: A Cytoprotective and Degradable Metalâ€Polyphenol Nanoshell for Singleâ€Cell Encapsulation. <i>Angewandte Chemie - International Edition</i> , 2014, 53, .	7.2	73
59	Singleâ€Cell Nanoencapsulation: From Passive to Active Shells. <i>Advanced Materials</i> , 2020, 32, e1907001.	11.1	73
60	Cytocompatible Encapsulation of Individual Chlorella Cells within Titanium Dioxide Shells by a Designed Catalytic Peptide. <i>Langmuir</i> , 2012, 28, 2151-2155.	1.6	71
61	Artificial spores: cytoprotective nanoencapsulation of living cells. <i>Trends in Biotechnology</i> , 2013, 31, 442-447.	4.9	71
62	Surface modification of poly(glycolic acid) (PGA) for biomedical applications. <i>Journal of Pharmaceutical Sciences</i> , 2003, 92, 933-937.	1.6	70
63	Iron Gall Ink Revisited: In Situ Oxidation of Fe(II)â€Tannin Complex for Fluidicâ€Interface Engineering. <i>Advanced Materials</i> , 2018, 30, e1805091.	11.1	65
64	Organic/inorganic double-layered shells for multiple cytoprotection of individual living cells. <i>Chemical Science</i> , 2015, 6, 203-208.	3.7	64
65	Electrochemically Driven, Electrodeâ€Addressable Formation of Functionalized Polydopamine Films for Neural Interfaces. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 13101-13104.	7.2	63
66	Dual Functional, Polymeric Self-Assembled Monolayers as a Facile Platform for Construction of Patterns of Biomolecules. <i>Langmuir</i> , 2007, 23, 10902-10905.	1.6	61
67	Interfacing Living Yeast Cells with Graphene Oxide Nanosheaths. <i>Macromolecular Bioscience</i> , 2012, 12, 61-66.	2.1	61
68	Biomimetic Micropatterning of Silica by Surface-Initiated Polymerization and Microcontact Printing. <i>Small</i> , 2005, 1, 992-996.	5.2	60
69	Magnetotactic molecular architectures from self-assembly of β -peptide foldamers. <i>Nature Communications</i> , 2015, 6, 8747.	5.8	59
70	Anion Exchange-Promoted Ru ^{3+/2+} -Redox Switch in Self-Assembled Monolayers of Imidazolium Ions on a Gold Electrode. <i>Langmuir</i> , 2005, 21, 4268-4271.	1.6	58
71	Pattern Generation of Biological Ligands on a Biodegradable Poly(glycolic acid) Film. <i>Langmuir</i> , 2004, 20, 2531-2535.	1.6	56
72	Surface-initiated, ring-opening polymerization of p-dioxanone from gold and silicon oxide surfaces. <i>Journal of Materials Chemistry</i> , 2003, 13, 2910.	6.7	55

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73	Control over Neurite Directionality and Neurite Elongation on Anisotropic Micropillar Arrays. <i>Small</i> , 2016, 12, 1148-1152.	5.2	54
74	Functionalization of Shortened Single-Walled Carbon Nanotubes with Poly(p-dioxanone) by a Grafting-From Approach. <i>Macromolecular Chemistry and Physics</i> , 2004, 205, 1218-1221.	1.1	53
75	Surface Reactions On Demand: Electrochemical Control of SAM-Based Reactions. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 4894-4897.	7.2	52
76	Gold-Catalyzed Cyanosilylation Reaction: Homogeneous and Heterogeneous Pathways. <i>Chemistry - A European Journal</i> , 2007, 13, 6351-6358.	1.7	52
77	Layer-Based Silica Encapsulation of Individual Yeast with Thickness Control. <i>Chemistry - an Asian Journal</i> , 2015, 10, 129-132.	1.7	51
78	Formation of Silica/Poly(p-dioxanone) Microspheres by Surface-Initiated Polymerization. <i>Macromolecular Rapid Communications</i> , 2003, 24, 207-210.	2.0	49
79	Reactivity of Vinyl-Terminated Self-Assembled Monolayers on Gold: Olefin Cross-Metathesis Reactions. <i>Langmuir</i> , 2003, 19, 8141-8143.	1.6	49
80	Proton-Fueled, Reversible Assembly of Gold Nanoparticles by Controlled Triplex Formation. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 5960-5963.	7.2	49
81	Surface-Initiated, Ring-Opening Metathesis Polymerization: Formation of Diblock Copolymer Brushes and Solvent-Dependent Morphological Changes. <i>Langmuir</i> , 2007, 23, 6761-6765.	1.6	49
82	The control of cell adhesion and detachment on thin films of thermoresponsive poly[(N-isopropylacrylamide)-r-(3-(methacryloylamino)propyl)-dimethyl(3-sulfopropyl)ammonium)] Tj ETQq0 0 0 rgBT/Overlook 10 Tf 50	1.7	49
83	Artificial Spores: Immunoprotective Nanocoating of Red Blood Cells with Supramolecular Ferric Ion-Tannic Acid Complex. <i>Polymers</i> , 2017, 9, 140.	2.0	48
84	Adsorption of 4,4'-biphenyl diisocyanide on gold nanoparticle surfaces investigated by surface-enhanced Raman scattering. <i>Journal of Raman Spectroscopy</i> , 2003, 34, 271-275.	1.2	46
85	Formation of Superhydrophobic Surfaces by Biomimetic Silicification and Fluorination. <i>Langmuir</i> , 2006, 22, 11208-11213.	1.6	45
86	Carbon Nanotubes as a Ligand in Cp ₂ ZrCl ₂ -Based Ethylene Polymerization. <i>Macromolecular Rapid Communications</i> , 2006, 27, 47-50.	2.0	45
87	Cytoskeletal Actin Dynamics are Involved in Pitch-Dependent Neurite Outgrowth on Bead Monolayers. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 6075-6079.	7.2	45
88	Neurons on nanometric topographies: insights into neuronal behaviors in vitro. <i>Biomaterials Science</i> , 2014, 2, 148-155.	2.6	45
89	Biomimetic approach to the formation of gold nanoparticle/silica core/shell structures and subsequent bioconjugation. <i>Nanotechnology</i> , 2006, 17, 4719-4725.	1.3	44
90	Pristine Multiwalled Carbon Nanotube/Polyethylene Nanocomposites by Immobilized Catalysts. <i>Chemistry of Materials</i> , 2008, 20, 4588-4594.	3.2	44

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91	Peptide-catalyzed, bioinspired silicification for single-cell encapsulation in the imidazole-buffered system. <i>Chemical Communications</i> , 2015, 51, 5523-5525.	2.2	44
92	A Decade of Advances in Single-Cell Nanocoating for Mammalian Cells. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100347.	3.9	43
93	Water-repellent coating: formation of polymeric self-assembled monolayers on nanostructured surfaces. <i>Nanotechnology</i> , 2007, 18, 395602.	1.3	42
94	Chemical Control of Yeast Cell Division by Cross-Linked Shells of Catechol-Grafted Polyelectrolyte Multilayers. <i>Macromolecular Rapid Communications</i> , 2013, 34, 1351-1356.	2.0	42
95	Micropatterns of Spores Displaying Heterologous Proteins. <i>Journal of the American Chemical Society</i> , 2004, 126, 10512-10513.	6.6	40
96	Generation of Ultra-High-Molecular-Weight Polyethylene from Metallocenes Immobilized onto N-Doped Graphene Nanoplatelets. <i>Macromolecular Rapid Communications</i> , 2013, 34, 533-538.	2.0	40
97	Counteranion-Directed, Biomimetic Control of Silica Nanostructures on Surfaces Inspired by Biosilicification Found in Diatoms. <i>Small</i> , 2009, 5, 1947-1951.	5.2	39
98	Production of Ultra-High-Molecular-Weight Polyethylene/Pristine MWCNT Composites by Half-Titanocene Catalysts. <i>Advanced Materials</i> , 2009, 21, 902-905.	11.1	38
99	Shape-Selective Recognition and Self-Assembly of mm-Scale Components. <i>Journal of the American Chemical Society</i> , 1999, 121, 1754-1755.	6.6	37
100	Polymeric Rulers: Distance-Dependent Emission Behaviors of Fluorophores on Flat Gold Surfaces and Bioassay Platforms Using Plasmonic Fluorescence Enhancement. <i>Advanced Functional Materials</i> , 2008, 18, 3395-3402.	7.8	37
101	Axon-First Neuritogenesis on Vertical Nanowires. <i>Nano Letters</i> , 2016, 16, 675-680.	4.5	37
102	Cytocompatible in situ cross-linking of degradable LbL films based on thiol-exchange reaction. <i>Chemical Science</i> , 2015, 6, 4698-4703.	3.7	36
103	Temperature-induced control of aspect ratio of gold nanorods. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2006, 24, 1323-1326.	0.9	34
104	Tertiary alcohol synthesis from secondary alcohols via C-H insertion. <i>Journal of the Chemical Society Chemical Communications</i> , 1995, , 321-322.	2.0	33
105	Activity-Based Assay of Matrix Metalloproteinase on Nonbiofouling Surfaces Using Time-of-Flight Secondary Ion Mass Spectrometry. <i>Analytical Chemistry</i> , 2008, 80, 5094-5102.	3.2	33
106	Bioconjugation of poly(poly(ethylene glycol) methacrylate)-coated iron oxide magnetic nanoparticles for magnetic capture of target proteins. <i>Macromolecular Research</i> , 2009, 17, 259-264.	1.0	33
107	Osteoconductive conjugation of bone morphogenetic protein-2 onto titanium/titanium oxide surfaces coated with non-biofouling poly(poly(ethylene glycol) methacrylate). <i>Colloids and Surfaces B: Biointerfaces</i> , 2010, 75, 385-389.	2.5	33
108	Enhanced Deep-Learning Prediction of Molecular Properties via Augmentation of Bond Topology. <i>ChemMedChem</i> , 2019, 14, 1604-1609.	1.6	33

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109	The Biomolecular Corona in 2D and Reverse: Patterning Metal-Phenolic Networks on Proteins, Lipids, Nucleic Acids, Polysaccharides, and Fingerprints. <i>Advanced Functional Materials</i> , 2020, 30, 1905805.	7.8	33
110	Nanotopography-Promoted Formation of Axon Collateral Branches of Hippocampal Neurons. <i>Small</i> , 2018, 14, e1801763.	5.2	32
111	Observation of Diastereomers of the Hydrogen-Bonded Aggregate Hub(M) ₃ -3CA Using ¹ H Nuclear Magnetic Resonance Spectroscopy When CA Is an Optically-Active Isocyanuric Acid. <i>Journal of Organic Chemistry</i> , 1997, 62, 2619-2621.	1.7	31
112	A degradable polydopamine coating based on disulfide-exchange reaction. <i>Nanoscale</i> , 2015, 7, 20149-20154.	2.8	31
113	Bio-Inspired Silicification on Patterned Surfaces Generated by Microcontact Printing and Layer-by-Layer Self-Assembly. <i>Chemistry - an Asian Journal</i> , 2009, 4, 382-385.	1.7	30
114	Biomimetic Approach to the Formation of Titanium Dioxide Thin Films by Using Poly((2-(dimethylamino)ethyl methacrylate)). <i>Chemistry - an Asian Journal</i> , 2008, 3, 2097-2104.	1.7	29
115	Tissue-based metabolic labeling of polysialic acids in living primary hippocampal neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E241-E248.	3.3	29
116	Enzymatic film formation of nature-derived phenolic amines. <i>Nanoscale</i> , 2018, 10, 13351-13355.	2.8	29
117	Long-term stability of cell micropatterns on poly((3-(methacryloylamino)propyl)-dimethyl(3-sulfopropyl)ammonium hydroxide)-patterned silicon oxide surfaces. <i>Biomaterials</i> , 2010, 31, 9565-9574.	5.7	28
118	Synthetic Strategies for Δ^9 -Cannabidiol and Its Structural Analogs. <i>Chemistry - an Asian Journal</i> , 2019, 14, 3749-3762.	1.7	28
119	Water-Collecting Capability of Radial-Wettability Gradient Surfaces Generated by Controlled Surface Reactions. <i>Langmuir</i> , 2010, 26, 15080-15083.	1.6	27
120	Salt-Induced, Continuous Deposition of Supramolecular Iron(III)-Tannic Acid Complex. <i>Langmuir</i> , 2018, 34, 12318-12323.	1.6	27
121	Silica/Poly(1,5-dioxepan-2-one) Hybrid Nanoparticles by Direct-Surface-Initiated Polymerization. <i>Macromolecular Rapid Communications</i> , 2004, 25, 1510-1513.	2.0	26
122	Pitch-Dependent Acceleration of Neurite Outgrowth on Nanostructured Anodized Aluminum Oxide Substrates. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 10114-10118.	7.2	26
123	Tailoring the Magnetolectric Properties of Pb(Zr,Ti)O ₃ Film Deposited on Amorphous Metglas Foil by Laser Annealing. <i>Journal of the American Ceramic Society</i> , 2016, 99, 2680-2687.	1.9	26
124	Ascorbic acid-mediated reductive disassembly of Fe ³⁺ -tannic acid shells in degradable single-cell nanoencapsulation. <i>Chemical Communications</i> , 2020, 56, 13748-13751.	2.2	26
125	Turning Diamagnetic Microbes into Multinary Micro-Magnets: Magnetophoresis and Spatio-Temporal Manipulation of Individual Living Cells. <i>Scientific Reports</i> , 2016, 6, 38517.	1.6	25
126	Artificial Spores: Cytocompatible Coating of Living Cells with Plant-Derived Pyrogallol. <i>Chemistry - an Asian Journal</i> , 2016, 11, 3183-3187.	1.7	25

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127	Iron gall ink revisited: hierarchical formation of Fe($\text{tannic acid coacervate particles}$) in microdroplets for protein condensation. <i>Chemical Communications</i> , 2019, 55, 2142-2145.	2.2	25
128	Assembly of Mesoscopic Analogues of Nucleic Acids. <i>Journal of the American Chemical Society</i> , 2000, 122, 3546-3547.	6.6	24
129	Mechanistic study on Sn(Oct) ₂ -catalyzed, ring-opening polymerization of p-dioxanone by surface-initiated polymerization and x-ray photoelectron spectroscopy. <i>Journal of Polymer Research</i> , 2005, 11, 265-268.	1.2	24
130	Cell Surface Engineering for Advanced Cell Therapy. <i>Chemistry - A European Journal</i> , 2018, 24, 15725-15743.	1.7	24
131	Dispersion of Pt-Ru alloys onto various carbons using I^3 -irradiation. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 355-360.	1.5	23
132	Nanogrooved microdiscs for bottom-up modulation of osteogenic differentiation. <i>Nanoscale</i> , 2019, 11, 16214-16221.	2.8	23
133	Binding of Aromatic Isocyanides on Gold Nanoparticle Surfaces Investigated by Surface-Enhanced Raman Scattering. <i>Applied Spectroscopy</i> , 2004, 58, 218-223.	1.2	22
134	Surface plasmon resonance-based inhibition assay for real-time detection of <i>Cryptosporidium parvum</i> oocyst. <i>Water Research</i> , 2008, 42, 1693-1699.	5.3	22
135	Direct Monitoring of the Inhibition of Protein-Protein Interactions in Cells by Translocation of PKC β Fusion Proteins. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 1314-1317.	7.2	22
136	Control of Microbial Growth in Alginate/Polydopamine Core/Shell Microbeads. <i>Chemistry - an Asian Journal</i> , 2015, 10, 2130-2133.	1.7	22
137	Neuroprotective Effect of Cannabidiol Against Hydrogen Peroxide in Hippocampal Neuron Culture. <i>Cannabis and Cannabinoid Research</i> , 2021, 6, 40-47.	1.5	22
138	Microcontact printing of biotin for selective immobilization of streptavidin-fused proteins and SPR analysis. <i>Biotechnology and Bioprocess Engineering</i> , 2004, 9, 137-142.	1.4	21
139	Formation of carbon nanotube/glucose-carrying polymer hybrids by surface-initiated, atom transfer radical polymerization. <i>Macromolecular Research</i> , 2005, 13, 356-361.	1.0	20
140	pH-Dependent rectification in self-assembled monolayers based on electrostatic interactions. <i>Chemical Communications</i> , 2006, , 183-185.	2.2	20
141	Cell Catalytic Shell Nanoarchitectonics: Catalytic Empowerment of Individual Living Cells by Single Cell Nanoencapsulation. <i>Advanced Materials</i> , 2022, 34, .	11.1	20
142	Faradaic impedance titration and control of electron transfer of 1-(12-mercaptododecyl)imidazole monolayer on a gold electrode. <i>Electrochimica Acta</i> , 2008, 53, 2630-2636.	2.6	19
143	Surface-Initiated Growth of Poly d(A-T) by TaqDNA Polymerase. <i>Langmuir</i> , 2005, 21, 4669-4673.	1.6	18
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