

Insung S Choi

List of Publications by Citations

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272
papers

12,477
citations

58
h-index

103
g-index

297
ext. papers

13,481
ext. citations

7.4
avg, IF

6.3
L-index

#	Paper	IF	Citations
272	A reversibly switching surface. <i>Science</i> , 2003 , 299, 371-4	33.3	971
271	Generation of Solution and Surface Gradients Using Microfluidic Systems. <i>Langmuir</i> , 2000 , 16, 8311-8316	4	776
270	One-Step Multipurpose Surface Functionalization by Adhesive Catecholamine. <i>Advanced Functional Materials</i> , 2012 , 22, 2949-2955	15.6	381
269	One-step modification of superhydrophobic surfaces by a mussel-inspired polymer coating. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 9401-4	16.4	372
268	Multi-pulse drug delivery from a resorbable polymeric microchip device. <i>Nature Materials</i> , 2003 , 2, 767-777	7	355
267	Mussel-inspired encapsulation and functionalization of individual yeast cells. <i>Journal of the American Chemical Society</i> , 2011 , 133, 2795-7	16.4	330
266	Norepinephrine: material-independent, multifunctional surface modification reagent. <i>Journal of the American Chemical Society</i> , 2009 , 131, 13224-5	16.4	272
265	Imidazolium ion-terminated self-assembled monolayers on Au: effects of counteranions on surface wettability. <i>Journal of the American Chemical Society</i> , 2004 , 126, 480-1	16.4	221
264	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	9.6	211
263	Fabrication of Hairy Polymeric Films Inspired by Geckos: Wetting and High Adhesion Properties. <i>Advanced Functional Materials</i> , 2008 , 18, 1089-1096	15.6	203
262	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	16.4	189
261	Molecule-mimetic chemistry and mesoscale self-assembly. <i>Accounts of Chemical Research</i> , 2001 , 34, 231-243	24.3	184
260	Biomimetic encapsulation of individual cells with silica. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 9160-3	16.4	166
259	Reactive Polymer Coatings: A Platform for Patterning Proteins and Mammalian Cells onto a Broad Range of Materials. <i>Langmuir</i> , 2002 , 18, 3632-3638	4	150
258	Highly efficient non-biofouling coating of zwitterionic polymers: poly((3-(methacryloylamino)propyl)-dimethyl(3-sulfopropyl)ammonium hydroxide). <i>Langmuir</i> , 2007 , 23, 5678-82	4	149
257	Reactivity of acetylenyl-terminated self-assembled monolayers on gold: triazole formation. <i>Langmuir</i> , 2004 , 20, 3844-7	4	141
256	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	2.6	134

255	A biofunctionalization scheme for neural interfaces using polydopamine polymer. <i>Biomaterials</i> , 2011 , 32, 6374-80	15.6	128
254	Surface-initiated, atom transfer radical polymerization of oligo(ethylene glycol) methyl ether methacrylate and subsequent click chemistry for bioconjugation. <i>Biomacromolecules</i> , 2007 , 8, 744-9	6.9	126
253	Surface-Initiated Ring-Opening Metathesis Polymerization on Si/SiO ₂ . <i>Macromolecules</i> , 2000 , 33, 2793-2795	3.5	126
252	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, 3922-9	6.9	125
251	Patterned polymer growth on silicon surfaces using microcontact printing and surface-initiated polymerization. <i>Applied Physics Letters</i> , 1999 , 75, 4201-4203	3.4	125
250	Bioinspired Ultratough Hydrogel with Fast Recovery, Self-Healing, Injectability and Cytocompatibility. <i>Advanced Materials</i> , 2017 , 29, 1700759	24	118
249	Nanocoating of single cells: from maintenance of cell viability to manipulation of cellular activities. <i>Advanced Materials</i> , 2014 , 26, 2001-10	24	117
248	Cell-in-Shell Hybrids: Chemical Nanoencapsulation of Individual Cells. <i>Accounts of Chemical Research</i> , 2016 , 49, 792-800	24.3	117
247	Cytoprotective silica coating of individual mammalian cells through bioinspired silicification. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 8056-9	16.4	112
246	Origin of Gate Hysteresis in Carbon Nanotube Field-Effect Transistors. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 12504-12507	3.8	110
245	Microfluidics Section: Design and Fabrication of Integrated Passive Valves and Pumps for Flexible Polymer 3-Dimensional Microfluidic Systems. <i>Biomedical Microdevices</i> , 2002 , 4, 117-121	3.7	110
244	Artificial spores: cytocompatible encapsulation of individual living cells within thin, tough artificial shells. <i>Small</i> , 2013 , 9, 178-86	11	97
243	Arrays of self-assembled monolayers for studying inhibition of bacterial adhesion. <i>Analytical Chemistry</i> , 2002 , 74, 1805-10	7.8	97
242	Laser-Material Interactions for Flexible Applications. <i>Advanced Materials</i> , 2017 , 29, 1606586	24	96
241	Control of Wettability by Anion Exchange on Si/SiO ₂ Surfaces. <i>Langmuir</i> , 2004 , 20, 3024-3027	4	89
240	Adsorption of 4-Biphenylisocyanide on Gold and Silver Nanoparticle Surfaces: Surface-Enhanced Raman Scattering Study. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 7076-7080	3.4	86
239	Surface-Initiated Polymerization of L-Lactide: Coating of Solid Substrates with a Biodegradable Polymer. <i>Macromolecules</i> , 2001 , 34, 5361-5363	5.5	86
238	Cytocompatible Polymer Grafting from Individual Living Cells by Atom-Transfer Radical Polymerization. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 15306-15309	16.4	85

237	Bioinspired functionalization of silica-encapsulated yeast cells. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 6115-8	16.4	84
236	Dispersing of Ag, Pd, and PtRu alloy nanoparticles on single-walled carbon nanotubes by Irradiation. <i>Materials Letters</i> , 2005 , 59, 1121-1124	3.3	83
235	Mussel-inspired, perfluorinated polydopamine for self-cleaning coating on various substrates. <i>Chemical Communications</i> , 2014 , 50, 11649-52	5.8	81
234	Chemical sporulation and germination: cytoprotective nanocoating of individual mammalian cells with a degradable tannic acid-FeIII complex. <i>Nanoscale</i> , 2015 , 7, 18918-22	7.7	80
233	Biomimetic formation of silica thin films by surface-initiated polymerization of 2-(dimethylamino)ethyl methacrylate and silicic acid. <i>Langmuir</i> , 2004 , 20, 7904-6	4	80
232	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, 2855-8	16.4	79
231	Synthesis of PAMAM dendrimer derivatives with enhanced buffering capacity and remarkable gene transfection efficiency. <i>Bioconjugate Chemistry</i> , 2011 , 22, 1046-55	6.3	79
230	A New Method toward Microengineered Surfaces Based on Reactive Coating. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 3166-3169	16.4	79
229	Self-Assembly of Hydrogen-Bonded Polymeric Rods Based on the Cyanuric Acid/Melamine Lattice. <i>Chemistry of Materials</i> , 1999 , 11, 684-690	9.6	79
228	Formation of Thermo-responsive Poly(N-isopropylacrylamide)/Dextran Particles by Atom Transfer Radical Polymerization. <i>Macromolecular Rapid Communications</i> , 2003 , 24, 517-521	4.8	77
227	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	3.4	76
226	Bioinspired, cytocompatible mineralization of silica-titania composites: thermoprotective nanoshell formation for individual chlorella cells. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 12279-82	16.4	71
225	Strategic Advances in Formation of Cell-in-Shell Structures: From Syntheses to Applications. <i>Advanced Materials</i> , 2018 , 30, e1706063	24	69
224	Cytoprotective alginate/polydopamine core/shell microcapsules in microbial encapsulation. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 14443-6	16.4	69
223	Large-Area Patterning by Vacuum-Assisted Micromolding. <i>Advanced Materials</i> , 1999 , 11, 946-950	24	68
222	A cytoprotective and degradable metal-polyphenol nanoshell for single-cell encapsulation. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 12420-5	16.4	66
221	Macroscopic, Hierarchical, Two-Dimensional Self-Assembly. <i>Angewandte Chemie - International Edition</i> , 1999 , 38, 3078-3081	16.4	66
220	Cytocompatible encapsulation of individual Chlorella cells within titanium dioxide shells by a designed catalytic peptide. <i>Langmuir</i> , 2012 , 28, 2151-5	4	65

219	Biphasic Supramolecular Self-Assembly of Ferric Ions and Tannic Acid across Interfaces for Nanofilm Formation. <i>Advanced Materials</i> , 2017 , 29, 1700784	24	64
218	Artificial spores: cytoprotective nanoencapsulation of living cells. <i>Trends in Biotechnology</i> , 2013 , 31, 442-451	7.1	64
217	Frontispiece: A Cytoprotective and Degradable Metal-Polyphenol Nanoshell for Single-Cell Encapsulation. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, n/a-n/a	16.4	60
216	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	4.9	59
215	Surface modification of poly(glycolic acid) (PGA) for biomedical applications. <i>Journal of Pharmaceutical Sciences</i> , 2003 , 92, 933-7	3.9	59
214	Organic/inorganic double-layered shells for multiple cytoprotection of individual living cells. <i>Chemical Science</i> , 2015 , 6, 203-208	9.4	57
213	Biomimetic micropatterning of silica by surface-initiated polymerization and microcontact printing. <i>Small</i> , 2005 , 1, 992-6	11	57
212	Dual functional, polymeric self-assembled monolayers as a facile platform for construction of patterns of biomolecules. <i>Langmuir</i> , 2007 , 23, 10902-5	4	55
211	Electrochemically driven, electrode-addressable formation of functionalized polydopamine films for neural interfaces. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 13101-4	16.4	54
210	Cytoprotective Encapsulation of Individual Jurkat T Cells within Durable TiO Shells for T-Cell Therapy. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 10702-10706	16.4	53
209	Interfacing living yeast cells with graphene oxide nanosheaths. <i>Macromolecular Bioscience</i> , 2012 , 12, 61-6	5.5	53
208	Anion exchange-promoted Ru ^{3+/2+} redox switch in self-assembled monolayers of imidazolium ions on a gold electrode. <i>Langmuir</i> , 2005 , 21, 4268-71	4	53
207	Pattern generation of biological ligands on a biodegradable poly(glycolic acid) film. <i>Langmuir</i> , 2004 , 20, 2531-5	4	52
206	Magnetotactic molecular architectures from self-assembly of β -peptide foldamers. <i>Nature Communications</i> , 2015 , 6, 8747	17.4	50
205	Surface reactions on demand: electrochemical control of SAM-based reactions. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 4894-7	16.4	50
204	Surface-initiated, ring-opening polymerization of p-dioxanone from gold and silicon oxide surfaces. <i>Journal of Materials Chemistry</i> , 2003 , 13, 2910		50
203	Functionalization of Shortened Single-Walled Carbon Nanotubes with Poly(p-dioxanone) by Grafting-From Approach. <i>Macromolecular Chemistry and Physics</i> , 2004 , 205, 1218-1221	2.6	49
202	Reactivity of Vinyl-Terminated Self-Assembled Monolayers on Gold: Olefin Cross-Metathesis Reactions. <i>Langmuir</i> , 2003 , 19, 8141-8143	4	49

201	Proton-fueled, reversible assembly of gold nanoparticles by controlled triplex formation. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 5960-3	16.4	48
200	Laser-induced phase separation of silicon carbide. <i>Nature Communications</i> , 2016 , 7, 13562	17.4	47
199	Interactions of Neurons with Physical Environments. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1700267	10.1	46
198	The control of cell adhesion and detachment on thin films of thermoresponsive poly[(N-isopropylacrylamide)- <i>r</i> -((3-(methacryloylamino)propyl)-dimethyl(3-sulfopropyl)ammonium hydroxide)]. <i>Biomaterials</i> , 2009 , 30, 5514-22	15.6	46
197	Surface-initiated, ring-opening metathesis polymerization: formation of diblock copolymer brushes and solvent-dependent morphological changes. <i>Langmuir</i> , 2007 , 23, 6761-5	4	46
196	A Cytoprotective and Degradable Metal-Polyphenol Nanoshell for Single-Cell Encapsulation. <i>Angewandte Chemie</i> , 2014 , 126, 12628-12633	3.6	45
195	Formation of Silica/Poly(p-dioxanone) Microspheres by Surface-Initiated Polymerization. <i>Macromolecular Rapid Communications</i> , 2003 , 24, 207-210	4.8	45
194	Iron Gall Ink Revisited: In Situ Oxidation of Fe(II)-Tannin Complex for Fluidic-Interface Engineering. <i>Advanced Materials</i> , 2018 , 30, e1805091	24	45
193	Layer-by-layer-based silica encapsulation of individual yeast with thickness control. <i>Chemistry - an Asian Journal</i> , 2015 , 10, 129-32	4.5	43
192	Pristine Multiwalled Carbon Nanotube/Polyethylene Nanocomposites by Immobilized Catalysts. <i>Chemistry of Materials</i> , 2008 , 20, 4588-4594	9.6	43
191	Neurons on nanometric topographies: insights into neuronal behaviors in vitro. <i>Biomaterials Science</i> , 2014 , 2, 148-155	7.4	42
190	Gold-catalyzed cyanosilylation reaction: homogeneous and heterogeneous pathways. <i>Chemistry - A European Journal</i> , 2007 , 13, 6351-8	4.8	42
189	Carbon Nanotubes as a Ligand in Cp ₂ ZrCl ₂ -Based Ethylene Polymerization. <i>Macromolecular Rapid Communications</i> , 2006 , 27, 47-50	4.8	42
188	Formation of superhydrophobic surfaces by biomimetic silicification and fluorination. <i>Langmuir</i> , 2006 , 22, 11208-13	4	42
187	Peptide-catalyzed, bioinspired silicification for single-cell encapsulation in the imidazole-buffered system. <i>Chemical Communications</i> , 2015 , 51, 5523-5	5.8	41
186	Chemical control of yeast cell division by cross-linked shells of catechol-grafted polyelectrolyte multilayers. <i>Macromolecular Rapid Communications</i> , 2013 , 34, 1351-6	4.8	40
185	Water-repellent coating: formation of polymeric self-assembled monolayers on nanostructured surfaces. <i>Nanotechnology</i> , 2007 , 18, 395602	3.4	40
184	Biomimetic approach to the formation of gold nanoparticle/silica core/shell structures and subsequent bioconjugation. <i>Nanotechnology</i> , 2006 , 17, 4719-25	3.4	40

183	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	2.3	40
182	Micropatterns of spores displaying heterologous proteins. <i>Journal of the American Chemical Society</i> , 2004 , 126, 10512-3	16.4	37
181	Artificial Spores: Immunoprotective Nanocoating of Red Blood Cells with Supramolecular Ferric Ion-Tannic Acid Complex. <i>Polymers</i> , 2017 , 9,	4.5	36
180	Cytoskeletal actin dynamics are involved in pitch-dependent neurite outgrowth on bead monolayers. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 6075-9	16.4	36
179	Generation of ultra-high-molecular-weight polyethylene from metallocenes immobilized onto N-doped graphene nanoplatelets. <i>Macromolecular Rapid Communications</i> , 2013 , 34, 533-8	4.8	36
178	Single-Cell Nanoencapsulation: From Passive to Active Shells. <i>Advanced Materials</i> , 2020 , 32, e1907001	24	35
177	Counteranion-directed, biomimetic control of silica nanostructures on surfaces inspired by biosilicification found in diatoms. <i>Small</i> , 2009 , 5, 1947-51	11	35
176	Control over Neurite Directionality and Neurite Elongation on Anisotropic Micropillar Arrays. <i>Small</i> , 2016 , 12, 1148-52	11	35
175	Production of Ultrahigh-Molecular-Weight Polyethylene/Pristine MWCNT Composites by Half-Titanocene Catalysts. <i>Advanced Materials</i> , 2009 , 21, 902-905	24	34
174	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	15.6	34
173	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	2.9	34
172	Cytocompatible cross-linking of degradable LbL films based on thiol-exchange reaction. <i>Chemical Science</i> , 2015 , 6, 4698-4703	9.4	33
171	Shape-Selective Recognition and Self-Assembly of mm-Scale Components. <i>Journal of the American Chemical Society</i> , 1999 , 121, 1754-1755	16.4	33
170	Axon-First Neuritogenesis on Vertical Nanowires. <i>Nano Letters</i> , 2016 , 16, 675-80	11.5	32
169	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	1.9	31
168	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, 385-9	6	29
167	Activity-based assay of matrix metalloproteinase on nonbiofouling surfaces using time-of-flight secondary ion mass spectrometry. <i>Analytical Chemistry</i> , 2008 , 80, 5094-102	7.8	29
166	Tertiary alcohol synthesis from secondary alcohols via C-H insertion. <i>Journal of the Chemical Society Chemical Communications</i> , 1995 , 321-322		29

165	Bioinspired, Cytocompatible Mineralization of Silica/Titania Composites: Thermoprotective Nanoshell Formation for Individual Chlorella Cells. <i>Angewandte Chemie</i> , 2013 , 125, 12505-12508	3.6	28
164	Bio-inspired silicification on patterned surfaces generated by microcontact printing and layer-by-layer self-assembly. <i>Chemistry - an Asian Journal</i> , 2009 , 4, 382-5	4.5	28
163	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, 9565-74	15.6	28
162	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, 2097-104	4.5	28
161	A degradable polydopamine coating based on disulfide-exchange reaction. <i>Nanoscale</i> , 2015 , 7, 20149-54	7.7	26
160	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	4.2	26
159	Water-collecting capability of radial-wettability gradient surfaces generated by controlled surface reactions. <i>Langmuir</i> , 2010 , 26, 15080-3	4	25
158	One-Step Modification of Superhydrophobic Surfaces by a Mussel-Inspired Polymer Coating. <i>Angewandte Chemie</i> , 2010 , 122, 9591-9594	3.6	24
157	Silica/Poly(1,5-dioxepan-2-one) Hybrid Nanoparticles by Direct Surface-Initiated Polymerization. <i>Macromolecular Rapid Communications</i> , 2004 , 25, 1510-1513	4.8	24
156	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	2.7	24
155	Enzymatic film formation of nature-derived phenolic amines. <i>Nanoscale</i> , 2018 , 10, 13351-13355	7.7	24
154	Nanotopography-Promoted Formation of Axon Collateral Branches of Hippocampal Neurons. <i>Small</i> , 2018 , 14, e1801763	11	23
153	Cytoprotective Silica Coating of Individual Mammalian Cells through Bioinspired Silicification. <i>Angewandte Chemie</i> , 2014 , 126, 8194-8197	3.6	23
152	Tailoring the Magnetoelectric 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	3.8	23
151	Turning Diamagnetic Microbes into Multinary Micro-Magnets: Magnetophoresis and Spatio-Temporal Manipulation of Individual Living Cells. <i>Scientific Reports</i> , 2016 , 6, 38517	4.9	23
150	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, E241-8	11.5	22
149	Salt-Induced, Continuous Deposition of Supramolecular Iron(III)-Tannic Acid Complex. <i>Langmuir</i> , 2018 , 34, 12318-12323	4	22
148	Bioinspired Functionalization of Silica-Encapsulated Yeast Cells. <i>Angewandte Chemie</i> , 2011 , 123, 6239-6248	3.4	21

147	Binding of aromatic isocyanides on gold nanoparticle surfaces investigated by surface-enhanced Raman scattering. <i>Applied Spectroscopy</i> , 2004 , 58, 218-23	3.1	21
146	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, 1314-7	16.4	20
145	Dispersion of PtRu alloys onto various carbons using γ irradiation. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 355-360	3.9	20
144	Microcontact printing of biotin for selective immobilization of streptavidin-fused proteins and SPR analysis. <i>Biotechnology and Bioprocess Engineering</i> , 2004 , 9, 137-142	3.1	20
143	Formation of carbon nanotube/glucose-carrying polymer hybrids by surface-initiated, atom transfer radical polymerization. <i>Macromolecular Research</i> , 2005 , 13, 356-361	1.9	20
142	Assembly of Mesoscopic Analogues of Nucleic Acids. <i>Journal of the American Chemical Society</i> , 2000 , 122, 3546-3547	16.4	20
141	Iron gall ink revisited: hierarchical formation of Fe(iii)-tannic acid coacervate particles in microdroplets for protein condensation. <i>Chemical Communications</i> , 2019 , 55, 2142-2145	5.8	19
140	Surface plasmon resonance-based inhibition assay for real-time detection of <i>Cryptosporidium parvum</i> oocyst. <i>Water Research</i> , 2008 , 42, 1693-9	12.5	19
139	Artificial Spores: Cytocompatible Coating of Living Cells with Plant-Derived Pyrogallol. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 3183-3187	4.5	19
138	Control of Microbial Growth in Alginate/Polydopamine Core/Shell Microbeads. <i>Chemistry - an Asian Journal</i> , 2015 , 10, 2130-3	4.5	18
137	Surface-initiated growth of poly d(A-T) by Taq DNA polymerase. <i>Langmuir</i> , 2005 , 21, 4669-73	4	18
136	Synthetic Strategies for (-)-Cannabidiol and Its Structural Analogs. <i>Chemistry - an Asian Journal</i> , 2019 , 14, 3749-3762	4.5	16
135	Binding behaviors of protein on spatially controlled poly[oligo(ethylene glycol) methacrylate] brushes grafted from mixed self-assembled monolayers on gold. <i>Chemical Communications</i> , 2014 , 50, 5291-3	5.8	16
134	Neurons on nanotopographies: behavioral responses and biological implications. <i>Journal of Nanoscience and Nanotechnology</i> , 2014 , 14, 513-21	1.3	16
133	Biospecific anchoring and spatially confined germination of bacterial spores in non-biofouling microwells. <i>Biomaterials</i> , 2007 , 28, 5594-600	15.6	16
132	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	6.7	16
131	Reactivity control of carboxylic acid-terminated self-assembled monolayers on gold: acid fluoride versus interchain carboxylic anhydride. <i>Langmuir</i> , 2005 , 21, 11765-72	4	16
130	Micropatterning proteins on polyhydroxyalkanoate substrates by using the substrate binding domain as a fusion partner. <i>Biotechnology and Bioengineering</i> , 2005 , 92, 160-5	4.9	16

- 129 Cell-Surface Engineering for Advanced Cell Therapy. *Chemistry - A European Journal*, **2018**, 24, 15725-15743 16
- 128 Polymeric Functionalization of Cyclic Olefin Copolymer Surfaces with Nonbiofouling Poly(oligo(Ethylene Glycol) Methacrylate). *Asian Journal of Organic Chemistry*, **2013**, 2, 568-571 3 15
- 127 Proton-Fueled, Reversible Assembly of Gold Nanoparticles by Controlled Triplex Formation. *Angewandte Chemie*, **2006**, 118, 6106-6109 3.6 15
- 126 Strong contact coupling of neuronal growth cones with height-controlled vertical silicon nanocolumns. *Nano Research*, **2018**, 11, 2532-2543 10 14
- 125 Coffee Melanoidin-Based Multipurpose Film Formation: Application to Single-Cell Nanoencapsulation. *ChemNanoMat*, **2020**, 6, 379-385 3.5 13
- 124 Generation of cellular micropatterns on a single-layered graphene film. *Macromolecular Bioscience*, **2014**, 14, 314-9 5.5 13
- 123 Evaporation-induced self-assembly of trans-2-aminocyclopentanecarboxylic acid hexamers. *Tetrahedron*, **2012**, 68, 4368-4373 2.4 13
- 122 Ultra-smooth nanostructured diamond films deposited from He/H₂/CH₄/N₂ microwave plasmas. *Journal of Nanoscience and Nanotechnology*, **2006**, 6, 258-61 1.3 13
- 121 pH-Dependent rectification in self-assembled monolayers based on electrostatic interactions. *Chemical Communications*, **2006**, 183-5 5.8 13
- 120 Mesoscopic, Templated Self-Assembly at the Fluid-Fuild Interface. *Langmuir*, **2000**, 16, 2997-2999 4 13
- 119 The Biomolecular Corona in 2D and Reverse: Patterning Metal-Phenolic Networks on Proteins, Lipids, Nucleic Acids, Polysaccharides, and Fingerprints. *Advanced Functional Materials*, **2020**, 30, 1905805 15.6 13
- 118 Ascorbic acid-mediated reductive disassembly of Fe-tannic acid shells in degradable single-cell nanoencapsulation. *Chemical Communications*, **2020**, 56, 13748-13751 5.8 13
- 117 Enhanced Deep-Learning Prediction of Molecular Properties via Augmentation of Bond Topology. *ChemMedChem*, **2019**, 14, 1604-1609 3.7 12
- 116 Electrochemically Driven, Electrode-Addressable Formation of Functionalized Polydopamine Films for Neural Interfaces. *Angewandte Chemie*, **2012**, 124, 13278-13281 3.6 12
- 115 Polycondensation of Sebacic Acid with Primary and Secondary Hydroxyl Groups Containing Diols Catalyzed by *Candida antarctica* Lipase B. *Synthetic Communications*, **2012**, 42, 3504-3512 1.7 12
- 114 Specific binding of streptavidin onto the nonbiofouling titanium/titanium oxide surface through surface-initiated, atom transfer radical polymerization and bioconjugation of biotin. *Macromolecular Research*, **2009**, 17, 174-180 1.9 12
- 113 Generation of patterned neuronal networks on cell-repellant poly(oligo(ethylene glycol) methacrylate) films. *Chemistry - an Asian Journal*, **2010**, 5, 1804-9 4.5 12
- 112 Pitch-dependent acceleration of neurite outgrowth on nanostructured anodized aluminum oxide substrates. *Angewandte Chemie - International Edition*, **2010**, 49, 10114-8 16.4 12

111	Cover Picture: Pitch-Dependent Acceleration of Neurite Outgrowth on Nanostructured Anodized Aluminum Oxide Substrates (Angew. Chem. Int. Ed. 52/2010). <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 10015-10015	16.4	12
110	Time-of-flight secondary ion mass spectrometry chemical imaging analysis of micropatterns of streptavidin and cells without labeling. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2006 , 24, 1203-1207	2.9	12
109	Patterning Si by using surface functionalization and microcontact printing with a polymeric ink. <i>Korean Journal of Chemical Engineering</i> , 2003 , 20, 956-959	2.8	12
108	Dynamic Electrophoretic Assembly of Metal/Phenolic Films: Accelerated Formation and Cytocompatible Detachment. <i>Chemistry of Materials</i> , 2020 , 32, 7746-7753	9.6	11
107	Cytocompatible Polymer Grafting from Individual Living Cells by Atom-Transfer Radical Polymerization. <i>Angewandte Chemie</i> , 2016 , 128, 15532-15535	3.6	11
106	Neuroprotective Effect of Cannabidiol Against Hydrogen Peroxide in Hippocampal Neuron Culture. <i>Cannabis and Cannabinoid Research</i> , 2021 , 6, 40-47	4.6	11
105	Cytoprotective Encapsulation of Individual Jurkat T Cells within Durable TiO ₂ Shells for T-Cell Therapy. <i>Angewandte Chemie</i> , 2017 , 129, 10842-10846	3.6	10
104	Iron Gall Ink Revisited: Natural Formulation for Black Hair-Dyeing. <i>Cosmetics</i> , 2019 , 6, 23	2.7	10
103	Nanogrooved microdiscs for bottom-up modulation of osteogenic differentiation. <i>Nanoscale</i> , 2019 , 11, 16214-16221	7.7	10
102	Electrochemical release of amine molecules from carbamate-based, electroactive self-assembled monolayers. <i>Langmuir</i> , 2012 , 28, 17-21	4	10
101	Aryl azide based, photochemical patterning of cyclic olefin copolymer surfaces with non-biofouling poly[(3-(methacryloylamino)propyl)dimethyl(3-sulfopropyl)ammonium hydroxide]. <i>Chemistry - an Asian Journal</i> , 2011 , 6, 363-6	4.5	10
100	Surface-initiated atom-transfer radical polymerization of 3-O-methacryloyl-1,2:5,6-di-O-isopropylidene- α -D-glucopyranoside onto gold surface. <i>Journal of Biomedical Materials Research - Part A</i> , 2009 , 88, 735-40	5.4	10
99	Biomimetic approach to the formation of magnetic nanoparticle/silica core/shell structures. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 5347-50	1.3	10
98	In-plane enyne metathesis and subsequent Diels-Alder reactions on self-assembled monolayers. <i>Langmuir</i> , 2005 , 21, 10311-5	4	10
97	Thickness-Tunable Eggshell Membrane Hydrolysate Nanocoating with Enhanced Cytocompatibility and Neurite Outgrowth. <i>Langmuir</i> , 2019 , 35, 12562-12568	4	9
96	Direct patterning and biofunctionalization of a large-area pristine graphene sheet. <i>Chemistry - an Asian Journal</i> , 2015 , 10, 568-71	4.5	9
95	Nanogenerators: Highly-Efficient, Flexible Piezoelectric PZT Thin Film Nanogenerator on Plastic Substrates (Adv. Mater. 16/2014). <i>Advanced Materials</i> , 2014 , 26, 2450-2450	24	9
94	Live cell imaging compatible immobilization of <i>Chlamydomonas reinhardtii</i> in microfluidic platform for biodiesel research. <i>Biotechnology and Bioengineering</i> , 2015 , 112, 494-501	4.9	9

93	In Vitro Developmental Acceleration of Hippocampal Neurons on Nanostructures of Self-Assembled Silica Beads in Filopodium-Size Ranges. <i>Angewandte Chemie</i> , 2012 , 124, 2909-2912	3.6	9
92	Reactivity of acid fluoride-terminated self-assembled monolayers on gold. <i>Langmuir</i> , 2007 , 23, 1209-14	4	9
91	Covalent attachment of polystyrene on multi-walled carbon nanotubes via nitroxide mediated polymerization. <i>Composite Interfaces</i> , 2007 , 14, 493-504	2.3	9
90	Makroskopische, hierarchische, zweidimensionale Selbstorganisation. <i>Angewandte Chemie</i> , 1999 , 111, 3265-3268	3.6	9
89	Fabrication and Characterization of Neurocompatible Ulvan-Based Layer-by-Layer Films. <i>Langmuir</i> , 2020 , 36, 11610-11617	4	9
88	Preparation of fluorescein-functionalized electrospun fibers coated with TiO ₂ and gold nanoparticles for visible-light-induced photocatalysis. <i>Materials Chemistry and Physics</i> , 2015 , 163, 213-218	4.4	8
87	Enzymatically degradable, starch-based layer-by-layer films: application to cytocompatible single-cell nanoencapsulation. <i>Soft Matter</i> , 2020 , 16, 6063-6071	3.6	8
86	Formation of thiol-functionalized silica films by layer-by-layer self-assembly and biomimetic silicification. <i>Macromolecular Research</i> , 2011 , 19, 511-514	1.9	8
85	Selective immobilization of biomolecules onto an activated polymeric adlayer. <i>Biointerphases</i> , 2007 , 2, 136-42	1.8	8
84	A noncovalent approach to the construction of tween 20-based protein microarrays. <i>ChemBioChem</i> , 2007 , 8, 1380-7	3.8	8
83	Enhanced stability of heterologous proteins by supramolecular self-assembly. <i>Applied Microbiology and Biotechnology</i> , 2007 , 75, 347-55	5.7	8
82	Deposition of iron nanoparticles onto multiwalled carbon nanotubes by helicon plasma-enhanced, chemical vapor deposition. <i>Journal of Non-Crystalline Solids</i> , 2007 , 353, 1208-1211	3.9	8
81	Immobilization of Ti(OiPr) ₄ onto silicon oxide surfaces and surface-initiated polymerization of ϵ -caprolactone. <i>Journal of Polymer Science Part A</i> , 2006 , 44, 3711-3716	2.5	8
80	Mesoscale Folding: A Physical Realization of an Abstract, 2D Lattice Model for Molecular Folding. <i>Journal of the American Chemical Society</i> , 2000 , 122, 11997-11998	16.4	8
79	Layer-wise relevance propagation of InteractionNet explains protein-ligand interactions at the atom level. <i>Scientific Reports</i> , 2020 , 10, 21155	4.9	8
78	In-situ derivatization and headspace solid-phase microextraction for gas chromatography-mass spectrometry analysis of alkyl methylphosphonic acids following solid-phase extraction using thin film. <i>Journal of Chromatography A</i> , 2019 , 1599, 17-24	4.5	7
77	Electrical and mechanical properties of polyethylene/MWCNT composites produced by polymerization using Cp ₂ ZrCl ₂ supported on MWCNTs. <i>Macromolecular Research</i> , 2015 , 23, 713-718	1.9	7
76	Cytocompatible Coating of Yeast Cells with Antimicrobial Chitosan through Layer-by-Layer Assembly. <i>Bulletin of the Korean Chemical Society</i> , 2016 , 37, 1850-1853	1.2	7

75	Local scanning probe polymerization of an organic monolayer covalently grafted on silicon. <i>Langmuir</i> , 2012 , 28, 14496-501	4	7
74	Disorder-order phase change of omega-(N-pyrrolyl)alkanethiol self-assembled monolayers on gold induced by STM scans and thermal activation. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 3138-49	3.6	7
73	Gold(III)-Catalyzed Cyanosilylation of Ketones and Aldehydes. <i>Synthesis</i> , 2008 , 2008, 507-510	2.9	7
72	Biomimetic coating of gold nanoparticles with ultrathin silica layers. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008 , 313-314, 150-153	5.1	7
71	Oberflächenreaktionen nach Bedarf - elektrochemische Steuerung von Reaktionen an selbstorganisierten Monoschichten. <i>Angewandte Chemie</i> , 2006 , 118, 5014-5018	3.6	7
70	Single Cell Array of Biotinylated Cells Using Surface Functionalization and Microcontact Printing. <i>Chemistry Letters</i> , 2005 , 34, 648-649	1.7	7
69	A Decade of Advances in Single-Cell Nanocoating for Mammalian Cells. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2100347	10.1	7
68	Neuro-taxis: Neuronal movement in gradients of chemical and physical environments. <i>Developmental Neurobiology</i> , 2020 , 80, 361-377	3.2	7
67	Systematic Study of Functionalizable, Non-Biofouling Agarose Films with Protein and Cellular Patterns on Glass Slides. <i>Chemistry - an Asian Journal</i> , 2017 , 12, 846-852	4.5	6
66	Accelerated Development of Hippocampal Neurons and Limited Adhesion of Astrocytes on Negatively Charged Surfaces. <i>Langmuir</i> , 2018 , 34, 1767-1774	4	6
65	Cytoskeletal Actin Dynamics are Involved in Pitch-Dependent Neurite Outgrowth on Bead Monolayers. <i>Angewandte Chemie</i> , 2014 , 126, 6189-6193	3.6	6
64	High voltage-derived enhancement of electric conduction in nanogap devices for detection of prostate-specific antigen. <i>Applied Physics Letters</i> , 2010 , 97, 033701	3.4	6
63	Asymmetrically functionalized, four-armed, poly(ethylene glycol) compounds for construction of chemically functionalizable non-biofouling surfaces. <i>Chemistry - an Asian Journal</i> , 2009 , 4, 135-42	4.5	6
62	Toward redesigning the PEG surface of nanocarriers for tumor targeting: impact of inner functionalities on size, charge, multivalent binding, and biodistribution. <i>Chemical Science</i> , 2017 , 8, 5186-5195	9.4	5
61	Astrocyte-Encapsulated Hydrogel Microfibers Enhance Neuronal Circuit Generation. <i>Advanced Healthcare Materials</i> , 2020 , 9, e1901072	10.1	5
60	Bioinspired, cysteamine-catalyzed co-silicification of (1H, 1H, 2H, 2H)perfluorooctyl triethoxysilane and tetraethyl orthosilicate: formation of superhydrophobic surfaces. <i>Chemistry - an Asian Journal</i> , 2014 , 9, 764-8	4.5	5
59	Magnetization of individual yeast cells by in situ formation of iron oxide on cell surfaces. <i>Solid State Sciences</i> , 2017 , 71, 29-32	3.4	5
58	Structure modulation of silica microspheres in bio-inspired silicification: effects of TEOS concentration. <i>Chemistry - an Asian Journal</i> , 2011 , 6, 1939-42	4.5	5

57	Construction of protein-resistant pOEGMA films by helicon plasma-enhanced chemical vapor deposition. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2009 , 20, 1579-86	3.5	5
56	Method development for direct detection of glycoproteins on aminophenylboronic acid functionalized self-assembled monolayers by matrix-assisted laser desorption/ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2009 , 23, 3599-602	2.2	5
55	Polydopamine Circle-Patterns on a Superhydrophobic AAO Surface: Water-Capturing Property. <i>Bulletin of the Korean Chemical Society</i> , 2013 , 34, 3141-3142	1.2	5
54	Enzyme-Mediated Kinetic Control of Fe-Tannic Acid Complexation for Interface Engineering. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	5
53	Geometrically Controlled Liquefied Capsules for Modular Tissue Engineering Strategies. <i>Advanced Biology</i> , 2020 , 4, e2000127	3.5	5
52	Backfilling-Free Strategy for Biopatterning on Intrinsically Dual-Functionalized Poly[2-Aminoethyl Methacrylate-co-Oligo(Ethylene Glycol) Methacrylate] Films. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 2057-64	4.5	5
51	A bioorthogonal approach for imaging the binding between Dasatinib and its target proteins inside living cells. <i>Chemical Communications</i> , 2016 , 52, 11764-11767	5.8	5
50	Inexpensive water soluble methyl methacrylate-functionalized hydroxyphthalimide: variations of the mycophenolic acid core for selective live cell imaging of free cysteine. <i>Analyst, The</i> , 2021 , 146, 2212-2220	5.2	5
49	Neuro-Compatible Metabolic Glycan Labeling of Primary Hippocampal Neurons in Noncontact, Sandwich-Type Neuron-Astrocyte Coculture. <i>ACS Chemical Neuroscience</i> , 2017 , 8, 2607-2612	5.7	4
48	Solid-phase extraction of nerve agent degradation products using poly[(2-(methacryloyloxy)ethyl)trimethylammonium chloride] thin films. <i>Talanta</i> , 2019 , 197, 500-508	6.2	4
47	Reversed Anionic Hofmeister Effect in Metal-Phenolic-Based Film Formation. <i>Langmuir</i> , 2020 , 36, 15552-15557	4.5	4
46	Pioneering Effects and Enhanced Neurite Complexity of Primary Hippocampal Neurons on Hierarchical Neurotemplated Scaffolds. <i>Advanced Healthcare Materials</i> , 2018 , 7, e1800289	10.1	4
45	Cytoprotective Alginate/Polydopamine Core/Shell Microcapsules in Microbial Encapsulation. <i>Angewandte Chemie</i> , 2014 , 126, 14671-14674	3.6	4
44	Fluorescence signal enhancement of polydiacetylene vesicle stacks. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 6203-7	1.3	4
43	Rosette-shaped calcite structures at surfaces: mechanistic implications for CaCO ₃ crystallization. <i>Chemistry - an Asian Journal</i> , 2010 , 5, 1586-93	4.5	4
42	Photophysical properties of noncovalently functionalized multi-walled carbon nanotubes with poly-para-hydroxystyrene. <i>Carbon</i> , 2008 , 46, 714-716	10.4	4
41	Local inhomogeneity in gate hysteresis of carbon nanotube field-effect transistors investigated by scanning gate microscopy. <i>Ultramicroscopy</i> , 2008 , 108, 1045-9	3.1	4
40	Quantitative analysis of mixed self-assembled monolayers using ToF-SIMS. <i>Applied Surface Science</i> , 2008 , 255, 1037-1039	6.7	4

39	Fluoro-N,N,N',N'-tetramethylformamidinium hexafluorophosphate: a reagent for formation of interchain carboxylic anhydrides on self-assembled monolayers. <i>Langmuir</i> , 2006 , 22, 6956-60	4	4
38	CHAPTER 8:Artificial Spores. <i>RSC Smart Materials</i> , 2014 , 142-161	0.6	4
37	Partial Coated Stem Cells with Bioinspired Silica as New Generation of Cellular Hybrid Materials. <i>Advanced Functional Materials</i> , 2021 , 31, 2009619	15.6	4
36	Real-Time Monitoring of a Botulinum Neurotoxin Using All-Carbon Nanotube-Based Field-Effect Transistor Devices. <i>Sensors</i> , 2018 , 18,	3.8	4
35	Deep Learning Algorithm of Graph Convolutional Network: A Case of Aqueous Solubility Problems. <i>Bulletin of the Korean Chemical Society</i> , 2019 , 40, 485-486	1.2	3
34	Immobilization of Antibody on a Cyclic Olefin Copolymer Surface with Functionalizable, Non-Biofouling Poly[Oligo(Ethylene Glycol) Methacrylate]. <i>Journal of Nanoscience and Nanotechnology</i> , 2015 , 15, 1767-70	1.3	3
33	Targeted and theranostic applications for nanotechnologies in medicine 2018 , 399-511		3
32	Formation of activation-free, selectively bioconjugatable poly(N-acryloxysuccinimide-co-oligoethylene glycol methyl ether methacrylate) films by surface-initiated ARGET ATRP. <i>Journal of Polymer Science Part A</i> , 2017 , 55, 329-337	2.5	3
31	Uniform grafting of poly(1,5-dioxepan-2-one) by surface-initiated, ring-opening polymerization. <i>Macromolecular Research</i> , 2006 , 14, 205-208	1.9	3
30	Effects of Pooling Operations on Prediction of Ligand Rotation-Dependent Protein-Ligand Binding in 3D Graph Convolutional Network. <i>Bulletin of the Korean Chemical Society</i> , 2021 , 42, 744-747	1.2	3
29	Single-Cell Nanoencapsulation of <i>Saccharomyces cerevisiae</i> by Cytocompatible Layer-by-Layer Assembly of Eggshell Membrane Hydrolysate and Tannic Acid. <i>Advanced NanoBiomed Research</i> , 2021 , 1, 2000037	0	3
28	In-situ generation of a well-dispersed multiwall carbon nanotube/syndiotactic polystyrene composite using pentamethylcyclopentadienyltitanium trimethoxide anchored to multiwall carbon nanotubes. <i>Polymer</i> , 2012 , 53, 933-938	3.9	2
27	Neuronal Interfaces: Interactions of Neurons with Physical Environments (Adv. Healthcare Mater. 15/2017). <i>Advanced Healthcare Materials</i> , 2017 , 6,	10.1	2
26	In Vitro Studies on Therapeutic Effects of Cannabidiol in Neural Cells: Neurons, Glia, and Neural Stem Cells. <i>Molecules</i> , 2021 , 26,	4.8	2
25	Rotational Variance-Based Data Augmentation in 3D Graph Convolutional Network. <i>Chemistry - an Asian Journal</i> , 2021 , 16, 2610-2613	4.5	2
24	Enzyme-mediated film formation of melanin-like species from ortho-diphenols: Application to single-cell nanoencapsulation. <i>Applied Surface Science Advances</i> , 2021 , 5, 100098	2.6	2
23	Cell-in-Catalytic-Shell Nanoarchitectonics: Catalytic Empowerment of Individual Living Cells by Single-Cell Nanoencapsulation. <i>Advanced Materials</i> , 2021 , 2201247	24	2
22	Modulation of Heterotypic and Homotypic Cell-Cell Interactions via Zwitterionic Lipid Masks. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1700063	10.1	1

21	Titelbild: Pitch-Dependent Acceleration of Neurite Outgrowth on Nanostructured Anodized Aluminum Oxide Substrates (Angew. Chem. 52/2010). <i>Angewandte Chemie</i> , 2010 , 122, n/a-n/a	3.6	1
20	Direct, Noncovalent Coating of a Gold Surface with Polymeric Self-Assembled Monolayers. <i>Bulletin of the Korean Chemical Society</i> , 2013 , 34, 3541-3542	1.2	1
19	Study on Long-Term Stability of Non-Biofouling Poly[(3-(methacryloylamino)propyl)-dimethyl(3-sulfopropyl)ammonium hydroxide] Films Under Biologically Relevant Conditions. <i>Bulletin of the Korean Chemical Society</i> , 2013 , 34, 1867-1870	1.2	1
18	Bioinspired Fabrication of Silica Thin Films on Histidine-Terminated Self-Assembled Monolayers. <i>Bulletin of the Korean Chemical Society</i> , 2014 , 35, 3336-3338	1.2	1
17	DNA-Templated Metallization for Formation of Porous and Hollow Silver-Shells. <i>Bulletin of the Korean Chemical Society</i> , 2013 , 34, 986-988	1.2	1
16	Neurites: Control over Neurite Directionality and Neurite Elongation on Anisotropic Micropillar Arrays (Small 9/2016). <i>Small</i> , 2016 , 12, 1147-1147	11	1
15	White fluorescence of polyaromatics derived from methanol conversion in Ca ²⁺ -exchanged small-pore zeolites. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 4634-4644	7.8	1
14	Iron Gall Ink Revisited: A Surfactant-Free Emulsion Technology for Black Hair-Dyeing Formulation. <i>Cosmetics</i> , 2021 , 8, 9	2.7	1
13	Multiplexed Metabolic Labeling of Glycoconjugates in Polarized Primary Cerebral Cortical Neurons. <i>Chemistry - an Asian Journal</i> , 2018 , 13, 3480-3484	4.5	1
12	Cell-Based Therapy: Partial Coated Stem Cells with Bioinspired Silica as New Generation of Cellular Hybrid Materials (Adv. Funct. Mater. 29/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170211	15.6	1
11	Control of nanogap separation by surface-catalyzed chemical deposition. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 6400-3	1.3	0
10	Neuronal Migration on Silicon Microcone Arrays with Different Pitches. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2000583	10.1	0
9	Titelbild: Cytoskeletal Actin Dynamics are Involved in Pitch-Dependent Neurite Outgrowth on Bead Monolayers (Angew. Chem. 24/2014). <i>Angewandte Chemie</i> , 2014 , 126, 6121-6121	3.6	
8	Titelbild: Cytoprotective Encapsulation of Individual Jurkat T Cells within Durable TiO ₂ Shells for T-Cell Therapy (Angew. Chem. 36/2017). <i>Angewandte Chemie</i> , 2017 , 129, 10745-10745	3.6	
7	Titelbild: In Vitro Developmental Acceleration of Hippocampal Neurons on Nanostructures of Self-Assembled Silica Beads in Filopodium-Size Ranges (Angew. Chem. 12/2012). <i>Angewandte Chemie</i> , 2012 , 124, 2839-2839	3.6	
6	Surface-initiated, reversible polymerization from surface-tethered oligonucleotides by enzymatic processes. <i>Chemistry - an Asian Journal</i> , 2013 , 8, 908-11	4.5	
5	Nanogap-based electrical PNA chips for the detection of genetic polymorphism of cytochrome P450 2C19. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 5155-9	1.3	
4	Titelbild: Pitch-Dependent Acceleration of Neurite Outgrowth on Nanostructured Anodized Aluminum Oxide Substrates (Angew. Chem. 52/2010). <i>Angewandte Chemie</i> , 2010 , 122, 10213-10213	3.6	

- 3 Single-Cell Nanoencapsulation of *Saccharomyces cerevisiae* by Cytocompatible Layer-by-Layer Assembly of Eggshell Membrane Hydrolysate and Tannic Acid. *Advanced NanoBiomed Research*, **2021**, 1, 2170013 0
- 2 Neurotemplates: Pioneering Effects and Enhanced Neurite Complexity of Primary Hippocampal Neurons on Hierarchical Neurotemplated Scaffolds (Adv. Healthcare Mater. 18/2018). *Advanced Healthcare Materials*, **2018**, 7, 1870074 10.1
- 1 Development of a chemically intuitive filter for chemical graph convolutional network. *Bulletin of the Korean Chemical Society*, 1.2