

Sergiy Minko

List of Publications by Year in Descending Order

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

221
papers

18,487
citations

64
h-index

133
g-index

230
ext. papers

19,459
ext. citations

7.9
avg, IF

6.67
L-index

#	Paper	IF	Citations
221	Highly flexible and conductive stainless-steel thread based piezoelectric coaxial yarn nanogenerators via solution coating and touch-spun nanofibers coating methods. <i>Smart Materials and Structures</i> , 2022 , 31, 035028	3.4	1
220	Infrared polarimetry: Anisotropy of polymer nanofibers. <i>Micro and Nano Engineering</i> , 2022 , 14, 100116	3.4	1
219	Long-Term Autonomic Thermoregulating Fabrics Based on Microencapsulated Phase Change Materials.. <i>ACS Applied Energy Materials</i> , 2021 , 4, 12789-12797	6.1	1
218	Biomimetic Cellulosomes Assembled on Molecular Brush Scaffolds: Random Complexes vs Enzyme Mixtures. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 1840-1853	4.3	1
217	Magneto-Controlled Enzyme Activity with Locally Produced pH Changes. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 2523-2527	6.4	2
216	All-Nanoparticle Monolayer Broadband Antireflective and Self-Cleaning Transparent Glass Coatings. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 6767-6777	9.5	5
215	Polyethylene Glycol Crowder's Effect on Enzyme Aggregation, Thermal Stability, and Residual Catalytic Activity. <i>Langmuir</i> , 2021 , 37, 8474-8485	4	1
214	Carboxymethyl Cellulose Enhanced Production of Cellulose Nanofibrils. <i>Fibers</i> , 2021 , 9, 57	3.7	2
213	Adaptive Hybrid Molecular Brushes Composed of Chitosan, Polylactide, and Poly(-vinyl pyrrolidone) for Support and Guiding Human Dermal Fibroblasts.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 4118-4127	4.1	2
212	Gravity Drawing of Micro- and Nanofibers for Additive Manufacturing of Well-Organized 3D-Nanostructured Scaffolds. <i>Small</i> , 2020 , 16, e1907422	11	4
211	Fabrication of core-sheath nanoyarn via touchspinning and its application in wearable piezoelectric nanogenerator. <i>Journal of the Textile Institute</i> , 2020 , 111, 906-915	1.5	10
210	Enhanced neuronal differentiation of neural stem cells with mechanically enhanced touch-spun nanofibrous scaffolds. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2020 , 24, 102152	6	10
209	Touch-Spun Nanofibers for Nerve Regeneration. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 2067-2075	3.7	21
208	Adhesion and Stability of Nanocellulose Coatings on Flat Polymer Films and Textiles. <i>Molecules</i> , 2020 , 25,	4.8	8
207	Preprogrammed Dynamic Microstructured Polymer Interfaces. <i>Advanced Functional Materials</i> , 2020 , 30, 1903478	15.6	6
206	Nanocellulose-Based Sustainable Dyeing of Cotton Textiles with Minimized Water Pollution. <i>ACS Omega</i> , 2020 , 5, 9196-9203	3.9	11
205	Towards Nanomaterials for Cancer Theranostics: A System of DNA-Modified Magnetic Nanoparticles for Detection and Suppression of RNA Marker in Cancer Cells. <i>Magnetochemistry</i> , 2019 , 5, 24	3.1	12

204	Biofouling-Resistant Porous Membranes with a Precisely Adjustable Pore Diameter via 3D Polymer Grafting. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 18268-18275	9.5	3
203	Nanoreactors based on DNAzyme-functionalized magnetic nanoparticles activated by magnetic field. <i>Nanoscale</i> , 2018 , 10, 1356-1365	7.7	22
202	En Route to Practicality of the Polymer Grafting Technology: One-Step Interfacial Modification with Amphiphilic Molecular Brushes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 13941-13952	9.5	9
201	Designing Highly Thermostable Lysozyme-Copolymer Conjugates: Focus on Effect of Polymer Concentration. <i>Biomacromolecules</i> , 2018 , 19, 1175-1188	6.9	6
200	High-performance flexible yarn for wearable piezoelectric nanogenerators. <i>Smart Materials and Structures</i> , 2018 , 27, 095018	3.4	37
199	Nanopatterning of Solvent between Apposing Planar Brushes under Pressure. <i>Macromolecules</i> , 2018 , 51, 6387-6394	5.5	2
198	Magnetic field remotely controlled selective biocatalysis. <i>Nature Catalysis</i> , 2018 , 1, 73-81	36.5	62
197	Magneto-Controlled Biocatalytic Cascades with Logically Processed Input Signals - Substrate Channeling versus Free Diffusion. <i>ChemPhysChem</i> , 2018 , 19, 3035-3043	3.2	14
196	Grafting through Method for Implanting of Lysozyme Enzyme in Molecular Brush for Improved Biocatalytic Activity and Thermal Stability. <i>Macromolecules</i> , 2018 , 51, 5039-5047	5.5	10
195	AFM Study of Polymer Brush Grafted to Deformable Surfaces: Quantitative Properties of the Brush and Substrate Mechanics. <i>Macromolecules</i> , 2017 , 50, 275-282	5.5	13
194	Magnetic Field-Activated Sensing of mRNA in Living Cells. <i>Journal of the American Chemical Society</i> , 2017 , 139, 12117-12120	16.4	38
193	Environmentally sound textile dyeing technology with nanofibrillated cellulose. <i>Green Chemistry</i> , 2017 , 19, 4031-4035	10	32
192	Thermal Stabilization of Enzymes with Molecular Brushes. <i>ACS Catalysis</i> , 2017 , 7, 8675-8684	13.1	16
191	DNA Computing Systems Activated by Electrochemically-triggered DNA Release from a Polymer-brush-modified Electrode Array. <i>Electroanalysis</i> , 2017 , 29, 398-408	3	16
190	Enzymogel Nanoparticles Chemistry for Highly Efficient Phase Boundary Biocatalysis 2017 , 369-399		2
189	Nanostructured Soft Matter with Magnetic Nanoparticles. <i>Advanced Functional Materials</i> , 2016 , 26, 3761-3782	13.7	35
188	Probing rough composite surfaces with atomic force microscopy: Nafion ionomer in fuel cell electrodes. <i>Polymer</i> , 2016 , 102, 396-403	3.9	15
187	Robust, Solvent-Free, Catalyst-Free Click Chemistry for the Generation of Highly Stable Densely Grafted Poly(ethylene glycol) Polymer Brushes by the Grafting To Method and Their Properties. <i>Macromolecules</i> , 2016 , 49, 7625-7631	5.5	37

186	Highly Porous 3D Fibrous Nanostructured Biopolymer Films with Stimuli-Responsive Porosity via Phase Separation in Polymer Blend. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 12463-9	9.5	14
185	Impact of enzyme loading on the efficacy and recovery of cellulolytic enzymes immobilized on enzymogel nanoparticles. <i>Applied Biochemistry and Biotechnology</i> , 2015 , 175, 2872-82	3.2	10
184	Enzyme-based logic systems interfaced with signal-responsive materials and electrodes. <i>Chemical Communications</i> , 2015 , 51, 3493-500	5.8	51
183	Tunable ultrathin membranes with nonvolatile pore shape memory. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 10401-6	9.5	16
182	Magnetospinning of Nano- and Microfibers. <i>Advanced Materials</i> , 2015 , 27, 3560-5	24	26
181	Magnetic field assisted assembly of highly ordered percolated nanostructures and their application for transparent conductive thin films. <i>Nanoscale</i> , 2015 , 7, 7155-61	7.7	25
180	AFM-Based Study of the Interaction Forces between Ceria, Silicon Dioxide and Polyurethane Pad during Non-Prestonian Polishing of Silicon Dioxide Films. <i>ECS Journal of Solid State Science and Technology</i> , 2015 , 4, P5016-P5020	2	8
179	Reactive Magnetospinning of Nano- and Microfibers. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 13613-6	16.4	4
178	Touch- and Brush-Spinning of Nanofibers. <i>Advanced Materials</i> , 2015 , 27, 6526-32	24	44
177	Reactive Magnetospinning of Nano- and Microfibers. <i>Angewandte Chemie</i> , 2015 , 127, 13817-13820	3.6	
176	Electrochemically Stimulated DNA Release from a Polymer-Brush Modified Electrode. <i>Electroanalysis</i> , 2015 , 27, 2171-2179	3	10
175	Modeling the Effect of pH and Temperature for Cellulases Immobilized on Enzymogel Nanoparticles. <i>Applied Biochemistry and Biotechnology</i> , 2015 , 176, 1114-30	3.2	9
174	The toxicity of engineered nanoparticles on seed plants chronically exposed to low-level environmental radiation. <i>Russian Journal of Ecology</i> , 2015 , 46, 236-245	0.7	3
173	In Situ Infrared Ellipsometry for Protein Adsorption Studies on Ultrathin Smart Polymer Brushes in Aqueous Environment. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 12430-9	9.5	36
172	Highly efficient phase boundary biocatalysis with enzymogel nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 483-7	16.4	48
171	Reconfigurable Anisotropic Coatings via Magnetic Field-Directed Assembly and Translocation of Locking Magnetic Chains. <i>Advanced Functional Materials</i> , 2014 , 24, 4738-4745	15.6	26
170	High-Resolution Mapping of the PFSA Polymer Distribution in PEFC Electrode Layers. <i>ECS Transactions</i> , 2014 , 64, 819-827	1	2
169	Majority and minority gates realized in enzyme-biocatalyzed systems integrated with logic networks and interfaced with bioelectronic systems. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 6775-84	3.4	48

168	Plasmonic nanobiosensor with chain reaction amplification mechanism. <i>Chemistry - A European Journal</i> , 2014 , 20, 1226-30	4.8	6
167	Titelbild: Highly Efficient Phase Boundary Biocatalysis with Enzymogel Nanoparticles (Angew. Chem. 2/2014). <i>Angewandte Chemie</i> , 2014 , 126, 339-339	3.6	
166	Highly Efficient Phase Boundary Biocatalysis with Enzymogel Nanoparticles. <i>Angewandte Chemie</i> , 2014 , 126, 493-497	3.6	6
165	Imaging and Microanalysis of Thin Ionomer Layers by Scanning Transmission Electron Microscopy. <i>Journal of the Electrochemical Society</i> , 2014 , 161, F1111-F1117	3.9	42
164	Stimuli-Responsive Biointerface Based on Polymer Brushes for Glucose Detection. <i>Electroanalysis</i> , 2014 , 26, 815-822	3	13
163	Biomolecular release triggered by glucose input--bioelectronic coupling of sensing and actuating systems. <i>Chemical Communications</i> , 2013 , 49, 4755-7	5.8	33
162	Electrode interfaces switchable by physical and chemical signals for biosensing, biofuel, and biocomputing applications. <i>Analytical and Bioanalytical Chemistry</i> , 2013 , 405, 3659-72	4.4	54
161	Wet-Spun Stimuli-Responsive Composite Fibers with Tunable Electrical Conductivity. <i>Advanced Functional Materials</i> , 2013 , 23, 5903-5909	15.6	24
160	Thermostable branched DNA nanostructures as modular primers for polymerase chain reaction. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 8699-702	16.4	63
159	Stimuli-Responsive Materials with Self-Healing Antifouling Surface via 3D Polymer Grafting. <i>Advanced Functional Materials</i> , 2013 , 23, 4593-4600	15.6	86
158	Colloidal Occlusion Template Method for Micromanufacturing of Omniphobic Surfaces. <i>Advanced Functional Materials</i> , 2013 , 23, 870-877	15.6	17
157	Thermostable Branched DNA Nanostructures as Modular Primers for Polymerase Chain Reaction. <i>Angewandte Chemie</i> , 2013 , 125, 8861-8864	3.6	16
156	Polymer Gradients: Responsive Grafted Layers 2012 , 303-328		
155	Tunable plasmonic nanostructures from noble metal nanoparticles and stimuli-responsive polymers. <i>Soft Matter</i> , 2012 , 8, 5980	3.6	98
154	Biocompatible stimuli-responsive hydrogel porous membranes via phase separation of a polyvinyl alcohol and Na-alginate intermolecular complex. <i>Journal of Materials Chemistry</i> , 2012 , 22, 19482		53
153	Field-directed self-assembly with locking nanoparticles. <i>Nano Letters</i> , 2012 , 12, 3814-20	11.5	35
152	Mechanism of nanoparticle actuation by responsive polymer brushes: from reconfigurable composite surfaces to plasmonic effects. <i>Nanoscale</i> , 2012 , 4, 284-92	7.7	26
151	Responsive Surfaces for Life Science Applications. <i>Annual Review of Materials Research</i> , 2012 , 42, 343-372	2.8	48

150	Electrochemically controlled drug-mimicking protein release from iron-alginate thin-films associated with an electrode. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 466-75	9.5	117
149	Stimuli-Responsive Fine Particles 2012 , 283-308		1
148	Mixed polymer brushes with locking switching. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 483-9	9.5	63
147	Toward fabric-based flexible microfluidic devices: pointed surface modification for pH sensitive liquid transport. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 4541-8	9.5	35
146	Conformational transitions of flexible hydrophobic polyelectrolytes in solutions of monovalent and multivalent salts and their mixtures. <i>Langmuir</i> , 2012 , 28, 6037-44	4	36
145	Superomniphobic magnetic microtextures with remote wetting control. <i>Journal of the American Chemical Society</i> , 2012 , 134, 12916-9	16.4	97
144	Wound-healing with mechanically robust and biodegradable hydrogel fibers loaded with silver nanoparticles. <i>Advanced Healthcare Materials</i> , 2012 , 1, 621-30	10.1	61
143	AFM imaging of adsorbed Nafion polymer on mica and graphite at molecular level. <i>Langmuir</i> , 2011 , 27, 10157-66	4	29
142	Effect of Local Charge Distribution on Graphite Surface on Nafion Polymer Adsorption as Visualized at the Molecular Level. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 16019-16026	3.8	13
141	Phase behavior and self-assembly of PS _n (P2VP- <i>b</i> -PAA) _n multiarmed multisegmented star terpolymers with ampholytic arms. <i>Polymer Chemistry</i> , 2011 , 2, 2037	4.9	19
140	Stimuli-responsive hydrogel hollow capsules by material efficient and robust cross-linking-precipitation synthesis revisited. <i>Langmuir</i> , 2011 , 27, 15305-11	4	15
139	Materials with Built-in Logic. <i>Journal of Computational and Theoretical Nanoscience</i> , 2011 , 8, 356-364	0.3	25
138	Optical nanosensor platform operating in near-physiological pH range via polymer-brush-mediated plasmon coupling. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 143-6	9.5	42
137	Polyolefin surface activation by grafting of functional polyperoxide. <i>Reactive and Functional Polymers</i> , 2011 , 71, 210-218	4.6	9
136	Emerging applications of stimuli-responsive polymer materials. <i>Nature Materials</i> , 2010 , 9, 101-13	27	4474
135	Single molecule experiments visualizing adsorbed polyelectrolyte molecules in the full range of mono- and divalent counterion concentrations. <i>Journal of the American Chemical Society</i> , 2010 , 132, 13660-2	16.4	38
134	Fluorescent nanoparticles stabilized by poly(ethylene glycol) containing shell for pH-triggered tunable aggregation in aqueous environment. <i>Langmuir</i> , 2010 , 26, 10684-92	4	31
133	Reversible "closing" of an electrode interface functionalized with a polymer brush by an electrochemical signal. <i>Langmuir</i> , 2010 , 26, 4506-13	4	71

132	Robust synthesis of nanogel particles by an aggregation-crosslinking method. <i>Soft Matter</i> , 2010 , 6, 4396-40	7
131	Modified Electrodes with Switchable Selectivity for Cationic and Anionic Redox Species. <i>Electroanalysis</i> , 2010 , 22, 35-40	3 53
130	Synthetic Hydrophilic Materials with Tunable Strength and a Range of Hydrophobic Interactions. <i>Advanced Functional Materials</i> , 2010 , 20, 2240-2247	15.6 64
129	Specific biochemical-to-optical signal transduction by responsive thin hydrogel films loaded with noble metal nanoparticles. <i>Advanced Materials</i> , 2010 , 22, 1412-6	24 63
128	Electrochemical nanotransistor from mixed-polymer brushes. <i>Advanced Materials</i> , 2010 , 22, 1863-6	24 40
127	Stimuli-responsive porous hydrogels at interfaces for molecular filtration, separation, controlled release, and gating in capsules and membranes. <i>Advanced Materials</i> , 2010 , 22, 3446-62	24 283
126	Stimuli-responsive nanoparticles, nanogels and capsules for integrated multifunctional intelligent systems. <i>Progress in Polymer Science</i> , 2010 , 35, 174-211	29.6 653
125	Structure of salted and discharged globules of hydrophobic polyelectrolytes adsorbed from aqueous solutions. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010 , 48, 1623-1627	2.6 9
124	Coatings via Self-Assembly of Smart Nanoparticles. <i>ACS Symposium Series</i> , 2009 , 145-157	0.4 2
123	Low Adhesive Surfaces that Adapt to Changing Environments. <i>Advanced Materials</i> , 2009 , 21, 1840-1844	24 59
122	Enzyme-based logic systems and their applications for novel multi-signal-responsive materials. <i>Journal of Materials Science: Materials in Medicine</i> , 2009 , 20, 457-62	4.5 47
121	An integrated multifunctional nanosystem from command nanoparticles and enzymes. <i>Small</i> , 2009 , 5, 817-20	11 60
120	Polymer brushes as active nanolayers for tunable bacteria adhesion. <i>Materials Science and Engineering C</i> , 2009 , 29, 680-684	8.3 50
119	Dual magnetobiochemical logic control of electrochemical processes based on local interfacial pH changes. <i>ACS Applied Materials & Interfaces</i> , 2009 , 1, 1166-8	9.5 42
118	Interaction of lipid membrane with nanostructured surfaces. <i>Langmuir</i> , 2009 , 25, 6287-99	4 73
117	Stimuli-responsive properties of peptide-based copolymers studied via directional growth of self-assembled patterns on solid substrate. <i>Biomacromolecules</i> , 2009 , 10, 1955-61	6.9 14
116	Chemical and structural changes in a pH-responsive mixed polyelectrolyte brush studied by infrared ellipsometry. <i>Langmuir</i> , 2009 , 25, 10987-91	4 48
115	Stimuli-responsive command polymer surface for generation of protein gradients. <i>Biointerphases</i> , 2009 , 4, FA45-9	1.8 42

114	Stimuli-responsive hydrogel membranes coupled with biocatalytic processes. <i>ACS Applied Materials & Interfaces</i> , 2009 , 1, 532-6	9.5	141
113	Bioelectrocatalytic system coupled with enzyme-based biocomputing ensembles performing boolean logic operations: approaching "smart" physiologically controlled biointerfaces. <i>ACS Applied Materials & Interfaces</i> , 2009 , 1, 144-9	9.5	72
112	Switchable selectivity for gating ion transport with mixed polyelectrolyte brushes: approaching 'smart' drug delivery systems. <i>Nanotechnology</i> , 2009 , 20, 434006	3.4	84
111	Molecular-engineered stimuli-responsive thin polymer film: a platform for the development of integrated multifunctional intelligent materials. <i>Journal of Materials Chemistry</i> , 2009 , 19, 6932		95
110	Stimuli-responsive hydrogel thin films. <i>Soft Matter</i> , 2009 , 5, 511-524	3.6	462
109	Biochemically controlled bioelectrocatalytic interface. <i>Journal of the American Chemical Society</i> , 2008 , 130, 10888-9	16.4	90
108	Magneto-Induced Self-Assembling of Conductive Nanowires for Biosensor Applications. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 7337-7344	3.8	55
107	Adapting low-adhesive thin films from mixed polymer brushes. <i>Langmuir</i> , 2008 , 24, 13828-32	4	39
106	Chemical gating with nanostructured responsive polymer brushes: mixed brush versus homopolymer brush. <i>ACS Nano</i> , 2008 , 2, 41-52	16.7	160
105	"Chemical transformers" from nanoparticle ensembles operated with logic. <i>Nano Letters</i> , 2008 , 8, 2993-711.5	11.5	120
104	Grafting on Solid Surfaces: Grafting to and Grafting from <i>Methods</i> 2008 , 215-234		82
103	Fluorescent Reactive Core-Shell Composite Nanoparticles with A High Surface Concentration of Epoxy Functionalities. <i>Chemistry of Materials</i> , 2008 , 20, 317-325	9.6	62
102	Polymer Brush-Modified Electrode with Switchable and Tunable Redox Activity for Bioelectronic Applications. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 8438-8445	3.8	156
101	Responsive brush layers: from tailored gradients to reversibly assembled nanoparticles. <i>Soft Matter</i> , 2008 , 4, 714-725	3.6	223
100	Single nanoparticle plasmonic devices by the "grafting to" method. <i>Langmuir</i> , 2008 , 24, 8976-80	4	44
99	Diversity of Nanostructured Self-Assemblies from a pH-Responsive ABC Terpolymer in Aqueous Media. <i>Macromolecules</i> , 2008 , 41, 925-934	5.5	47
98	Ultrathin responsive polyelectrolyte brushes studied by infrared synchrotron mapping ellipsometry. <i>Applied Physics Letters</i> , 2008 , 92, 103102	3.4	20
97	Superhydrophobic Surfaces Generated from Water-Borne Dispersions of Hierarchically Assembled Nanoparticles Coated with a Reversibly Switchable Shell. <i>Advanced Materials</i> , 2008 , 20, 200-205	24	87

96	Gold-nanoparticle-enhanced plasmonic effects in a responsive polymer gel. <i>Advanced Materials</i> , 2008 , 20, 2730-4	24	84
95	Multiresponsive Biopolyelectrolyte Membrane. <i>Advanced Materials</i> , 2008 , 20, 4588-4593	24	53
94	Interaction of nanoparticles with lipid membrane. <i>Nano Letters</i> , 2008 , 8, 941-4	11.5	295
93	Nonwetable thin films from hybrid polymer brushes can be hydrophilic. <i>Langmuir</i> , 2007 , 23, 13-9	4	63
92	pH-Responsive Thin Film Membranes from Poly(2-vinylpyridine): Water Vapor-Induced Formation of a Microporous Structure. <i>Macromolecules</i> , 2007 , 40, 2086-2091	5.5	78
91	An electrochemical gate based on a stimuli-responsive membrane associated with an electrode surface. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 12141-5	3.4	68
90	Adsorption of polyelectrolyte versus surface charge: in situ single-molecule atomic force microscopy experiments on similarly, oppositely, and heterogeneously charged surfaces. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 8597-604	3.4	37
89	In situ infrared ellipsometric study of stimuli-responsive mixed polyelectrolyte brushes. <i>Analytical Chemistry</i> , 2007 , 79, 7676-82	7.8	53
88	Smart Responsive Coatings from Mixed Polymer Brushes. <i>ACS Symposium Series</i> , 2007 , 79-93	0.4	1
87	Three-Dimensional Analysis of Switching Mechanism of Mixed Polymer Brushes. <i>Macromolecules</i> , 2007 , 40, 8774-8783	5.5	68
86	Low pressure plasma-based approaches to fluorocarbon polymer surface modification. <i>Journal of Applied Polymer Science</i> , 2007 , 103, 100-109	2.9	21
85	Stimuli-Responsive Colloidal Systems from Mixed Brush-Coated Nanoparticles. <i>Advanced Functional Materials</i> , 2007 , 17, 2307-2314	15.6	133
84	Metallic nickel nanorod arrays embedded into ordered block copolymer templates. <i>Thin Solid Films</i> , 2007 , 515, 6552-6556	2.2	38
83	Responsive colloidal systems: reversible aggregation and fabrication of superhydrophobic surfaces. <i>Journal of Colloid and Interface Science</i> , 2007 , 310, 481-8	9.3	83
82	A structural definition of polymer brushes. <i>Journal of Polymer Science Part A</i> , 2007 , 45, 3505-3512	2.5	459
81	Surface functionalization by smart coatings: Stimuli-responsive binary polymer brushes. <i>Progress in Organic Coatings</i> , 2006 , 55, 168-174	4.8	116
80	Smart Microfluidic Channels. <i>Advanced Functional Materials</i> , 2006 , 16, 1153-1160	15.6	148
79	Responsive Polyelectrolyte Gel Membranes. <i>Advanced Materials</i> , 2006 , 18, 2458-2460	24	90

78	Responsive Polymer Brushes. <i>Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics</i> , 2006 , 46, 397-420		223
77	Polyelectrolyte Stabilized Nanowires from Fe ₃ O ₄ Nanoparticles via Magnetic Field Induced Self-Assembly. <i>Chemistry of Materials</i> , 2006 , 18, 591-593	9.6	111
76	Ultrathin molecularly imprinted polymer sensors employing enhanced transmission surface plasmon resonance spectroscopy. <i>Chemical Communications</i> , 2006 , 3343-5	5.8	71
75	Cationic Telechelic Polyelectrolytes: Synthesis by Group Transfer Polymerization and Self-Organization in Aqueous Media. <i>Macromolecules</i> , 2006 , 39, 678-683	5.5	64
74	Conformation of single polyelectrolyte chains vs. salt concentration: Effects of sample history and solid substrate. <i>Polymer</i> , 2006 , 47, 2493-2498	3.9	37
73	Stimuli-responsive mixed grafted polymer films with gradually changing properties: direct determination of chemical composition. <i>Langmuir</i> , 2005 , 21, 8711-6	4	40
72	Microphase Separation in Thin Films of Poly(styrene-block-4-vinylpyridine) Copolymer- α -(4-Hydroxybenzeneazo)benzoic Acid Assembly. <i>Macromolecules</i> , 2005 , 38, 507-516	5.5	131
71	AFM Imaging of Single Polycation Molecules Contrasted with Cyanide-Bridged Compounds. <i>Macromolecules</i> , 2005 , 38, 501-506	5.5	18
70	AFM single molecule experiments at the solid-liquid interface: in situ conformation of adsorbed flexible polyelectrolyte chains. <i>Journal of the American Chemical Society</i> , 2005 , 127, 15688-9	16.4	141
69	From smart polymer molecules to responsive nanostructured surfaces. <i>Langmuir</i> , 2005 , 21, 8591-3	4	79
68	Mixed Polymer Brushes: Switching of Surface Behavior and Chemical Patterning at the Nanoscale 2005 , 403-425		4
67	Local Chain Organization of Switchable Binary Polymer Brushes in Selective Solvents 2005 , 427-440		
66	Gradient Stimuli-Responsive Polymer Grafted Layers. <i>ACS Symposium Series</i> , 2005 , 68-83	0.4	4
65	AFM single molecule studies of adsorbed polyelectrolytes. <i>Current Opinion in Colloid and Interface Science</i> , 2005 , 10, 9-15	7.6	47
64	Compatibilization of polymer blends with high-molecular-weight peroxides. <i>Journal of Applied Polymer Science</i> , 2005 , 96, 232-242	2.9	16
63	Multifunctional Stimuli Responsive ABC Terpolymers: From Three-Compartment Micelles to Three-Dimensional Network. <i>Macromolecular Rapid Communications</i> , 2005 , 26, 1371-1376	4.8	38
62	Photochemical structuring and fixing of structures in binary polymer brush layers via 2pi+2pi photodimerization. <i>Journal of Colloid and Interface Science</i> , 2005 , 282, 349-58	9.3	11
61	Conformation of Polymer Molecule via Atomic Force Microscopy. <i>ACS Symposium Series</i> , 2005 , 207-223	0.4	1

60	Gradient Mixed Brushes: Grafting To Approach. <i>Macromolecules</i> , 2004 , 37, 7421-7423	5.5	100
59	Non-equilibrium adsorption at solid/liquid interfaces from polyelectrolyte solutions. <i>Colloid and Polymer Science</i> , 2004 , 282, 1000-1007	2.4	6
58	Gradient Polymer Layers by Grafting To Approach. <i>Macromolecular Rapid Communications</i> , 2004 , 25, 360-365	4.8	96
57	Adaptive and responsive surfaces through controlled reorganization of interfacial polymer layers. <i>Progress in Polymer Science</i> , 2004 , 29, 635-698	29.6	511
56	Nanosensors based on responsive polymer brushes and gold nanoparticle enhanced transmission surface plasmon resonance spectroscopy. <i>Journal of the American Chemical Society</i> , 2004 , 126, 15950-1	16.4	318
55	Inverse and reversible switching gradient surfaces from mixed polyelectrolyte brushes. <i>Langmuir</i> , 2004 , 20, 9916-9	4	112
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