

Sergiy Minko

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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	Emerging applications of stimuli-responsive polymer materials. <i>Nature Materials</i> , 2010 , 9, 101-13	27	4474
220	Stimuli-responsive nanoparticles, nanogels and capsules for integrated multifunctional intelligent systems. <i>Progress in Polymer Science</i> , 2010 , 35, 174-211	29.6	653
219	Adaptive and responsive surfaces through controlled reorganization of interfacial polymer layers. <i>Progress in Polymer Science</i> , 2004 , 29, 635-698	29.6	511
218	Stimuli-responsive hydrogel thin films. <i>Soft Matter</i> , 2009 , 5, 511-524	3.6	462
217	A structural definition of polymer brushes. <i>Journal of Polymer Science Part A</i> , 2007 , 45, 3505-3512	2.5	459
216	Two-level structured self-adaptive surfaces with reversibly tunable properties. <i>Journal of the American Chemical Society</i> , 2003 , 125, 3896-900	16.4	448
215	Polyelectrolyte Brushes. <i>Advances in Polymer Science</i> , 2004 , 79-150	1.3	327
214	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
213	Interaction of nanoparticles with lipid membrane. <i>Nano Letters</i> , 2008 , 8, 941-4	11.5	295
212	Ordered reactive nanomembranes/nanotemplates from thin films of block copolymer supramolecular assembly. <i>Journal of the American Chemical Society</i> , 2003 , 125, 12211-6	16.4	284
211	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
210	One-Dimensional Aggregation of Regioregular Polyalkylthiophenes. <i>Nano Letters</i> , 2003 , 3, 707-712	11.5	234
209	Responsive brush layers: from tailored gradients to reversibly assembled nanoparticles. <i>Soft Matter</i> , 2008 , 4, 714-725	3.6	223
208	Responsive Polymer Brushes. <i>Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics</i> , 2006 , 46, 397-420		223
207	Synthesis of Adaptive Polymer Brushes via Grafting To Approach from Melt. <i>Langmuir</i> , 2002 , 18, 289-296		218
206	Switching of Polymer Brushes. <i>Langmuir</i> , 1999 , 15, 8349-8355	4	212
205	Lateral versus perpendicular segregation in mixed polymer brushes. <i>Physical Review Letters</i> , 2002 , 88, 035502	7.4	179

204	Chemical gating with nanostructured responsive polymer brushes: mixed brush versus homopolymer brush. <i>ACS Nano</i> , 2008 , 2, 41-52	16.7	160
203	Reversible Tuning of Wetting Behavior of Polymer Surface with Responsive Polymer Brushes. <i>Langmuir</i> , 2003 , 19, 8077-8085	4	159
202	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
201	Reorganization of Binary Polymer Brushes: Reversible Switching of Surface Microstructures and Nanomechanical Properties. <i>Macromolecules</i> , 2003 , 36, 7244-7255	5.5	155
200	Mixed Polyelectrolyte Brush from Oppositely Charged Polymers for Switching of Surface Charge and Composition in Aqueous Environment. <i>Macromolecules</i> , 2003 , 36, 5897-5901	5.5	152
199	Cascade of coil-globule conformational transitions of single flexible polyelectrolyte molecules in poor solvent. <i>Journal of the American Chemical Society</i> , 2002 , 124, 13454-62	16.4	152
198	Reversible chemical patterning on stimuli-responsive polymer film: environment-responsive lithography. <i>Journal of the American Chemical Society</i> , 2003 , 125, 8302-6	16.4	151
197	Smart Microfluidic Channels. <i>Advanced Functional Materials</i> , 2006 , 16, 1153-1160	15.6	148
196	Stimuli-responsive hydrogel membranes coupled with biocatalytic processes. <i>ACS Applied Materials & Interfaces</i> , 2009 , 1, 532-6	9.5	141
195	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
194	Stimuli-Responsive Colloidal Systems from Mixed Brush-Coated Nanoparticles. <i>Advanced Functional Materials</i> , 2007 , 17, 2307-2314	15.6	133
193	Microphase Separation in Thin Films of Poly(styrene-block-4-vinylpyridine) Copolymer-(4-Hydroxybenzeneazo)benzoic Acid Assembly. <i>Macromolecules</i> , 2005 , 38, 507-516	5.5	131
192	Single flexible hydrophobic polyelectrolyte molecules adsorbed on solid substrate: transition between a stretched chain, necklace-like conformation and a globule. <i>Journal of the American Chemical Society</i> , 2002 , 124, 3218-9	16.4	131
191	"Chemical transformers" from nanoparticle ensembles operated with logic. <i>Nano Letters</i> , 2008 , 8, 2993-7	11.5	120
190	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
189	Surface functionalization by smart coatings: Stimuli-responsive binary polymer brushes. <i>Progress in Organic Coatings</i> , 2006 , 55, 168-174	4.8	116
188	Inverse and reversible switching gradient surfaces from mixed polyelectrolyte brushes. <i>Langmuir</i> , 2004 , 20, 9916-9	4	112
187	Mixed polymer brushes by sequential polymer addition: anchoring layer effect. <i>Langmuir</i> , 2004 , 20, 4064-75	4	112

186	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
185	Environment-Adopting Surfaces with Reversibly Switchable Morphology. <i>Macromolecular Rapid Communications</i> , 2001 , 22, 206-211	4.8	106
184	Single Molecules and Associates of Heteroarm Star Copolymer Visualized by Atomic Force Microscopy. <i>Macromolecules</i> , 2003 , 36, 8704-8711	5.5	101
183	Gradient Mixed Brushes: Grafting To Approach. <i>Macromolecules</i> , 2004 , 37, 7421-7423	5.5	100
182	Tunable plasmonic nanostructures from noble metal nanoparticles and stimuli-responsive polymers. <i>Soft Matter</i> , 2012 , 8, 5980	3.6	98
181	Superomniphobic magnetic microtextures with remote wetting control. <i>Journal of the American Chemical Society</i> , 2012 , 134, 12916-9	16.4	97
180	Gradient Polymer Layers by Grafting To Approach. <i>Macromolecular Rapid Communications</i> , 2004 , 25, 360-365	4.8	96
179	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
178	Biochemically controlled bioelectrocatalytic interface. <i>Journal of the American Chemical Society</i> , 2008 , 130, 10888-9	16.4	90
177	Responsive Polyelectrolyte Gel Membranes. <i>Advanced Materials</i> , 2006 , 18, 2458-2460	24	90
176	Reconformation and Metallization of Unimolecular Micelles in Controlled Environment. <i>Nano Letters</i> , 2003 , 3, 365-368	11.5	88
175	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
174	Stimuli-Responsive Materials with Self-Healing Antifouling Surface via 3D Polymer Grafting. <i>Advanced Functional Materials</i> , 2013 , 23, 4593-4600	15.6	86
173	Switchable selectivity for gating ion transport with mixed polyelectrolyte brushes: approaching 'smart' drug delivery systems. <i>Nanotechnology</i> , 2009 , 20, 434006	3.4	84
172	Gold-nanoparticle-enhanced plasmonic effects in a responsive polymer gel. <i>Advanced Materials</i> , 2008 , 20, 2730-4	24	84
171	Mineralization of single flexible polyelectrolyte molecules. <i>Journal of the American Chemical Society</i> , 2002 , 124, 10192-7	16.4	84
170	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
169	Grafting on Solid Surfaces: Grafting to and Grafting from Methods 2008 , 215-234		82

168	From smart polymer molecules to responsive nanostructured surfaces. <i>Langmuir</i> , 2005 , 21, 8591-3	4	79
167	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
166	Bidisperse Mixed Brushes: Synthesis and Study of Segregation in Selective Solvent. <i>Macromolecules</i> , 2003 , 36, 7268-7279	5.5	78
165	Interaction of lipid membrane with nanostructured surfaces. <i>Langmuir</i> , 2009 , 25, 6287-99	4	73
164	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
163	Reversible "closing" of an electrode interface functionalized with a polymer brush by an electrochemical signal. <i>Langmuir</i> , 2010 , 26, 4506-13	4	71
162	Ultrathin molecularly imprinted polymer sensors employing enhanced transmission surface plasmon resonance spectroscopy. <i>Chemical Communications</i> , 2006 , 3343-5	5.8	71
161	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
160	Three-Dimensional Analysis of Switching Mechanism of Mixed Polymer Brushes. <i>Macromolecules</i> , 2007 , 40, 8774-8783	5.5	68
159	Direct Measurement of Thermoelastic Properties of Glassy and Rubbery Polymer Brush Nanolayers Grown by Grafting-from Approach. <i>Langmuir</i> , 2003 , 19, 6126-6134	4	66
158	Synthetic Hydrophilic Materials with Tunable Strength and a Range of Hydrophobic Interactions. <i>Advanced Functional Materials</i> , 2010 , 20, 2240-2247	15.6	64
157	Cationic Telechelic Polyelectrolytes: Synthesis by Group Transfer Polymerization and Self-Organization in Aqueous Media. <i>Macromolecules</i> , 2006 , 39, 678-683	5.5	64
156	Mixed polymer brushes with locking switching. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 483-9	9.5	63
155	Thermostable branched DNA nanostructures as modular primers for polymerase chain reaction. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 8699-702	16.4	63
154	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
153	Nonwetable thin films from hybrid polymer brushes can be hydrophilic. <i>Langmuir</i> , 2007 , 23, 13-9	4	63
152	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
151	Magnetic field remotely controlled selective biocatalysis. <i>Nature Catalysis</i> , 2018 , 1, 73-81	36.5	62

150	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
149	An integrated multifunctional nanosystem from command nanoparticles and enzymes. <i>Small</i> , 2009 , 5, 817-20	11	60
148	Palladium Wire-Shaped Nanoparticles from Single Synthetic Polycation Molecules. <i>Nano Letters</i> , 2002 , 2, 881-885	11.5	60
147	Low Adhesive Surfaces that Adapt to Changing Environments. <i>Advanced Materials</i> , 2009 , 21, 1840-1844	24	59
146	Chemical contrasting in a single polymer molecule AFM experiment. <i>Journal of the American Chemical Society</i> , 2003 , 125, 11202-3	16.4	58
145	Magneto-Induced Self-Assembling of Conductive Nanowires for Biosensor Applications. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 7337-7344	3.8	55
144	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
143	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
142	Modified Electrodes with Switchable Selectivity for Cationic and Anionic Redox Species. <i>Electroanalysis</i> , 2010 , 22, 35-40	3	53
141	In situ infrared ellipsometric study of stimuli-responsive mixed polyelectrolyte brushes. <i>Analytical Chemistry</i> , 2007 , 79, 7676-82	7.8	53
140	Multiresponsive Biopolyelectrolyte Membrane. <i>Advanced Materials</i> , 2008 , 20, 4588-4593	24	53
139	Enzyme-based logic systems interfaced with signal-responsive materials and electrodes. <i>Chemical Communications</i> , 2015 , 51, 3493-500	5.8	51
138	Polymer brushes as active nanolayers for tunable bacteria adhesion. <i>Materials Science and Engineering C</i> , 2009 , 29, 680-684	8.3	50
137	Highly efficient phase boundary biocatalysis with enzymogel nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 483-7	16.4	48
136	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
135	Responsive Surfaces for Life Science Applications. <i>Annual Review of Materials Research</i> , 2012 , 42, 343-372	2.8	48
134	Chemical and structural changes in a pH-responsive mixed polyelectrolyte brush studied by infrared ellipsometry. <i>Langmuir</i> , 2009 , 25, 10987-91	4	48
133	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

132	Diversity of Nanostructured Self-Assemblies from a pH-Responsive ABC Terpolymer in Aqueous Media. <i>Macromolecules</i> , 2008 , 41, 925-934	5.5	47
131	AFM single molecule studies of adsorbed polyelectrolytes. <i>Current Opinion in Colloid and Interface Science</i> , 2005 , 10, 9-15	7.6	47
130	Synthesis and Behavior of the Polymer Covering on a Solid Surface. 3. Morphology and Mechanism of Formation of Grafted Polystyrene Layers on the Glass Surface. <i>Macromolecules</i> , 1998 , 31, 3945-3952	5.5	47
129	Radical Polymerization Initiated from a Solid Substrate. 3. Grafting from the Surface of an Ultrafine Powder. <i>Macromolecules</i> , 1999 , 32, 4539-4543	5.5	45
128	Touch- and Brush-Spinning of Nanofibers. <i>Advanced Materials</i> , 2015 , 27, 6526-32	24	44
127	Single nanoparticle plasmonic devices by the "grafting to" method. <i>Langmuir</i> , 2008 , 24, 8976-80	4	44
126	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
125	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
124	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
123	Stimuli-responsive command polymer surface for generation of protein gradients. <i>Biointerphases</i> , 2009 , 4, FA45-9	1.8	42
122	Electrochemical nanotransistor from mixed-polymer brushes. <i>Advanced Materials</i> , 2010 , 22, 1863-6	24	40
121	Stimuli-responsive mixed grafted polymer films with gradually changing properties: direct determination of chemical composition. <i>Langmuir</i> , 2005 , 21, 8711-6	4	40
120	Adapting low-adhesive thin films from mixed polymer brushes. <i>Langmuir</i> , 2008 , 24, 13828-32	4	39
119	Radical Polymerization Initiated from a Solid Substrate. 1. Theoretical Background. <i>Macromolecules</i> , 1999 , 32, 4525-4531	5.5	39
118	Magnetic Field-Activated Sensing of mRNA in Living Cells. <i>Journal of the American Chemical Society</i> , 2017 , 139, 12117-12120	16.4	38
117	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
116	Metallic nickel nanorod arrays embedded into ordered block copolymer templates. <i>Thin Solid Films</i> , 2007 , 515, 6552-6556	2.2	38
115	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

114	High-performance flexible yarn for wearable piezoelectric nanogenerators. <i>Smart Materials and Structures</i> , 2018 , 27, 095018	3-4	37
113	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
112	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
111	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
110	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
109	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
108	Nanostructured Soft Matter with Magnetic Nanoparticles. <i>Advanced Functional Materials</i> , 2016 , 26, 3761-3782	3-7	35
107	Field-directed self-assembly with locking nanoparticles. <i>Nano Letters</i> , 2012 , 12, 3814-20	11-5	35
106	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
105	Radical Polymerization Initiated from a Solid Substrate. 2. Study of the Grafting Layer Growth on the Silica Surface by in situ Ellipsometry. <i>Macromolecules</i> , 1999 , 32, 4532-4538	5-5	34
104	Biomolecular release triggered by glucose input--bioelectronic coupling of sensing and actuating systems. <i>Chemical Communications</i> , 2013 , 49, 4755-7	5-8	33
103	Environmentally sound textile dyeing technology with nanofibrillated cellulose. <i>Green Chemistry</i> , 2017 , 19, 4031-4035	10	32
102	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
101	AFM imaging of adsorbed Nafion polymer on mica and graphite at molecular level. <i>Langmuir</i> , 2011 , 27, 10157-66	4	29
100	Magnetospinning of Nano- and Microfibers. <i>Advanced Materials</i> , 2015 , 27, 3560-5	24	26
99	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
98	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
97	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

96	Materials with Built-in Logic. <i>Journal of Computational and Theoretical Nanoscience</i> , 2011 , 8, 356-364	0.3	25
95	Wet-Spun Stimuli-Responsive Composite Fibers with Tunable Electrical Conductivity. <i>Advanced Functional Materials</i> , 2013 , 23, 5903-5909	15.6	24
94	Nanoreactors based on DNAzyme-functionalized magnetic nanoparticles activated by magnetic field. <i>Nanoscale</i> , 2018 , 10, 1356-1365	7.7	22
93	Investigation of debonding processes in particle-filled polymer materials by acoustic emission: Part I Acoustic emission and debonding stress. <i>Journal of Materials Science</i> , 1997 , 32, 4397-4403	4.3	21
92	Low pressure plasma-based approaches to fluorocarbon polymer surface modification. <i>Journal of Applied Polymer Science</i> , 2007 , 103, 100-109	2.9	21
91	Touch-Spun Nanofibers for Nerve Regeneration. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 2067-2075	20.75	21
90	Ultrathin responsive polyelectrolyte brushes studied by infrared synchrotron mapping ellipsometry. <i>Applied Physics Letters</i> , 2008 , 92, 103102	3.4	20
89	Switching and structuring of binary reactive polymer brush layers. <i>Macromolecular Symposia</i> , 2004 , 210, 229-235	0.8	20
88	Phase behavior and self-assembly of P _{Sn} (P2VP-b-PAA) _n multiarmed multisegmented star terpolymers with ampholytic arms. <i>Polymer Chemistry</i> , 2011 , 2, 2037	4.9	19
87	Regular Patterned Surfaces from Core-Shell Particles. Preparation and Characterization	72-81	19
86	AFM Imaging of Single Polycation Molecules Contrasted with Cyanide-Bridged Compounds. <i>Macromolecules</i> , 2005 , 38, 501-506	5.5	18
85	Colloidal Occlusion Template Method for Micromanufacturing of Omniphobic Surfaces. <i>Advanced Functional Materials</i> , 2013 , 23, 870-877	15.6	17
84	Polypropylene surface peroxidation with heterofunctional polyperoxides. <i>Macromolecular Symposia</i> , 2004 , 210, 339-348	0.8	17
83	Tunable ultrathin membranes with nonvolatile pore shape memory. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 10401-6	9.5	16
82	Thermal Stabilization of Enzymes with Molecular Brushes. <i>ACS Catalysis</i> , 2017 , 7, 8675-8684	13.1	16
81	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
80	Thermostable Branched DNA Nanostructures as Modular Primers for Polymerase Chain Reaction. <i>Angewandte Chemie</i> , 2013 , 125, 8861-8864	3.6	16
79	Compatibilization of polymer blends with high-molecular-weight peroxides. <i>Journal of Applied Polymer Science</i> , 2005 , 96, 232-242	2.9	16

78	Probing rough composite surfaces with atomic force microscopy: Nafion ionomer in fuel cell electrodes. <i>Polymer</i> , 2016 , 102, 396-403	3.9	15
77	Stimuli-responsive hydrogel hollow capsules by material efficient and robust cross-linking-precipitation synthesis revisited. <i>Langmuir</i> , 2011 , 27, 15305-11	4	15
76	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
75	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
74	Magneto-Controlled Biocatalytic Cascades with Logically Processed Input Signals - Substrate Channeling versus Free Diffusion. <i>ChemPhysChem</i> , 2018 , 19, 3035-3043	3.2	14
73	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
72	Stimuli-Responsive Biointerface Based on Polymer Brushes for Glucose Detection. <i>Electroanalysis</i> , 2014 , 26, 815-822	3	13
71	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
70	Investigation of debonding processes in particle-filled polymer materials by acoustic emission: Part II Acoustic emission amplitude and energy release by debonding. <i>Journal of Materials Science</i> , 1997 , 32, 4405-4410	4.3	13
69	Investigation of craze development using small-angle X-ray scattering of synchrotron radiation. <i>Journal of Macromolecular Science - Physics</i> , 1999 , 38, 869-883	1.4	13
68	Synthesis and behaviour of the polymer covering on a solid surface: 1. Attachment of the polymer initiator to the solid surface. <i>Polymer</i> , 1996 , 37, 177-181	3.9	13
67	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
66	Investigation of failure mechanisms in polymer composites by simultaneous measurement of ultra-small-angle scattering and acoustic emission during the deformation. I. Method. <i>Journal of Macromolecular Science - Physics</i> , 1999 , 38, 901-912	1.4	12
65	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
64	Structure and reactivity of peroxide monomers. <i>Journal of Polymer Science Part A</i> , 1996 , 34, 2507-2511	2.5	11
63	Nanocellulose-Based Sustainable Dyeing of Cotton Textiles with Minimized Water Pollution. <i>ACS Omega</i> , 2020 , 5, 9196-9203	3.9	11
62	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
61	Electrochemically Stimulated DNA Release from a Polymer-Brush Modified Electrode. <i>Electroanalysis</i> , 2015 , 27, 2171-2179	3	10

60	Effect of polyacrylate binding layers on adhesion of UV-cured epoxyacrylate protective coatings on optical fibers. <i>Journal of Applied Polymer Science</i> , 1998 , 67, 1913-1923	2.9	10
59	Oscillation Phenomenon at Polymer Adsorption. <i>Langmuir</i> , 2000 , 16, 7876-7878	4	10
58	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
57	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
56	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
55	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
54	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
53	Polyolefin surface activation by grafting of functional polyperoxide. <i>Reactive and Functional Polymers</i> , 2011 , 71, 210-218	4.6	9
52	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
51	Adsorption of Polymers at the Surface Concentrations in the Diluted to Semidiluted Regimes. <i>Macromolecules</i> , 1997 , 30, 6929-6936	5.5	9
50	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
49	Adhesion and Stability of Nanocellulose Coatings on Flat Polymer Films and Textiles. <i>Molecules</i> , 2020 , 25,	4.8	8
48	Robust synthesis of nanogel particles by an aggregation-crosslinking method. <i>Soft Matter</i> , 2010 , 6, 4396-4397	3.6	7
47	Investigation of failure mechanisms in polymer composites by simultaneous measurement of ultra-small-angle scattering and acoustic emission during the deformation. II. Evaluation of the interface strength. <i>Journal of Macromolecular Science - Physics</i> , 1999 , 38, 913-929	1.4	7
46	Oscillatory phenomena at polyvinylpyridine/silica interfaces. <i>Macromolecular Rapid Communications</i> , 1999 , 20, 85-87	4.8	7
45	Designing Highly Thermostable Lysozyme-Copolymer Conjugates: Focus on Effect of Polymer Concentration. <i>Biomacromolecules</i> , 2018 , 19, 1175-1188	6.9	6
44	Plasmonic nanobiosensor with chain reaction amplification mechanism. <i>Chemistry - A European Journal</i> , 2014 , 20, 1226-30	4.8	6
43	Highly Efficient Phase Boundary Biocatalysis with Enzymogel Nanoparticles. <i>Angewandte Chemie</i> , 2014 , 126, 493-497	3.6	6

42	Non-equilibrium adsorption at solid/liquid interfaces from polyelectrolyte solutions. <i>Colloid and Polymer Science</i> , 2004 , 282, 1000-1007	2.4	6
41	Nanostructures and Functionalities in Polymer Thin Films. <i>Macromolecular Symposia</i> , 2004 , 214, 73-84	0.8	6
40	Evaluation of the polymer-nonpolymer adhesion in particle-filled polymers with the acoustic emission method. <i>Journal of Adhesion Science and Technology</i> , 2000 , 14, 999-1019	2	6
39	Preprogrammed Dynamic Microstructured Polymer Interfaces. <i>Advanced Functional Materials</i> , 2020 , 30, 1903478	15.6	6
38	Application of Acoustic Emission Measurements to Investigate Adhesion in Filled Polymeric Composites 2001 , 75, 257-266		5
37	Adsorption of Protonated Poly(vinylpyridine) on Silica. Correlation between Interfacial Conformation and Colloid Stability. <i>Macromolecules</i> , 1998 , 31, 6387-6389	5.5	5
36	All-Nanoparticle Monolayer Broadband Antireflective and Self-Cleaning Transparent Glass Coatings. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 6767-6777	9.5	5
35	Gravity Drawing of Micro- and Nanofibers for Additive Manufacturing of Well-Organized 3D-Nanostructured Scaffolds. <i>Small</i> , 2020 , 16, e1907422	11	4
34	Reactive Magnetospinning of Nano- and Microfibers. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 13613-6	16.4	4
33	Mixed Polymer Brushes: Switching of Surface Behavior and Chemical Patterning at the Nanoscale 2005 , 403-425		4
32	Gradient Stimuli-Responsive Polymer Grafted Layers. <i>ACS Symposium Series</i> , 2005 , 68-83	0.4	4
31	A Kinetic Method for Investigating the Structure of Adsorbed Polymer Layers. <i>Adsorption Science and Technology</i> , 1996 , 14, 251-257	3.6	4
30	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
29	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
28	Modification of the Surface of a Substrate by Adsorbed Polymer Interlayers for the Control of Adhesion. <i>Adsorption Science and Technology</i> , 1996 , 14, 259-266	3.6	3
27	Environment-friendly nanocellulose-indigo dyeing of textiles. <i>Green Chemistry</i> ,	10	3
26	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
25	Nanopatterning of Solvent between Apposing Planar Brushes under Pressure. <i>Macromolecules</i> , 2018 , 51, 6387-6394	5.5	2

24	High-Resolution Mapping of the PFSA Polymer Distribution in PEFC Electrode Layers. <i>ECS Transactions</i> , 2014 , 64, 819-827	1	2
23	Coatings via Self-Assembly of Smart Nanoparticles. <i>ACS Symposium Series</i> , 2009 , 145-157	0.4	2
22	The strength of the tailored polymer/inclusion interface in polymer composites evaluated in situ by acoustic emission. <i>Polymer Bulletin</i> , 1998 , 41, 247-252	2.4	2
21	Enzymogel Nanoparticles Chemistry for Highly Efficient Phase Boundary Biocatalysis 2017 , 369-399		2
20	Magneto-Controlled Enzyme Activity with Locally Produced pH Changes. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 2523-2527	6.4	2
19	Carboxymethyl Cellulose Enhanced Production of Cellulose Nanofibrils. <i>Fibers</i> , 2021 , 9, 57	3.7	2
18	Stimuli-Responsive Fine Particles 2012 , 283-308		1
17	Smart Responsive Coatings from Mixed Polymer Brushes. <i>ACS Symposium Series</i> , 2007 , 79-93	0.4	1
16	Conformation of Polymer Molecule via Atomic Force Microscopy. <i>ACS Symposium Series</i> , 2005 , 207-223	0.4	1
15	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
14	Nanostructured Polymer Brushes With Reversibly Changing Properties. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 727, 1		1
13	Long-Term Autonomic Thermoregulating Fabrics Based on Microencapsulated Phase Change Materials.. <i>ACS Applied Energy Materials</i> , 2021 , 4, 12789-12797	6.1	1
12	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
11	Polyethylene Glycol Crowder's Effect on Enzyme Aggregation, Thermal Stability, and Residual Catalytic Activity. <i>Langmuir</i> , 2021 , 37, 8474-8485	4	1
10	Infrared polarimetry: Anisotropy of polymer nanofibers. <i>Micro and Nano Engineering</i> , 2022 , 14, 100116	3.4	1
9	Melt coated flexible stainless-steel thread based co-axial triboelectric yarn nanogenerators. <i>Materials Technology</i> , 1-15	2.1	0
8	Titelbild: Highly Efficient Phase Boundary Biocatalysis with Enzymogel Nanoparticles (Angew. Chem. 2/2014). <i>Angewandte Chemie</i> , 2014 , 126, 339-339	3.6	
7	Reactive Magnetospinning of Nano- and Microfibers. <i>Angewandte Chemie</i> , 2015 , 127, 13817-13820	3.6	

6 Polymer Gradients: Responsive Grafted Layers **2012**, 303-328

5 Local Chain Organization of Switchable Binary Polymer Brushes in Selective Solvents **2005**, 427-440

4 Metallic Nanoparticles from Single Polyelectrolyte Molecules. *Materials Research Society Symposia Proceedings*, **2002**, 726, 1

3 Refining of Particulates at Stimuli-Responsive Interfaces: Label-Free Sorting and Isolation. *Angewandte Chemie*, e202110990 3.6

2 Switching of Surface Properties with Polymer Brushes. *Materials Research Society Symposia Proceedings*, **2000**, 629, 1

1 Hairy Tube Polymer Templates From Diblock Copolymer Thin Films. *Materials Research Society Symposia Proceedings*, **2002**, 728, 151