Vladimir Tsukruk

List of Publications by Year
in descending order

416 papers	29,784 citations	6486 82 h-index	8034 154 g-index
434 all docs	434 docs citations	434 times ranked	34937 citing authors

#	Article	IF	Citations
1	Emerging applications of stimuli-responsive polymer materials. Nature Materials, 2010, 9, 101-113.	13.3	5,007
2	Graphene-polymer nanocomposites for structural and functional applications. Progress in Polymer Science, 2014, 39, 1934-1972.	11.8	922
3	Nanostructured Surfaces and Assemblies as SERS Media. Small, 2008, 4, 1576-1599.	5.2	726
4	Adaptive and responsive surfaces through controlled reorganization of interfacial polymer layers. Progress in Polymer Science, 2004, 29, 635-698.	11.8	544
5	Freely suspended nanocomposite membranes as highly sensitive sensors. Nature Materials, 2004, 3, 721-728.	13.3	524
6	Mechanical Properties of Robust Ultrathin Silk Fibroin Films. Advanced Functional Materials, 2007, 17, 2229-2237.	7.8	355
7	Electrically Tunable Plasmonic Behavior of Nanocubeâ€“Polymer Nanomaterials Induced by a Redox-Active Electrochromic Polymer. ACS Nano, 2014, 8, 6182-6192.	7.3	347
8	Self-Assembled Multilayer Films from Dendrimers. Langmuir, 1997, 13, 2171-2176.	1.6	317
9	Adhesive and Friction Forces between Chemically Modified Silicon and Silicon Nitride Surfaces. Langmuir, 1998, 14, 446-455.	1.6	311
10	Ultrarobust Transparent Cellulose Nanocrystalâ€Graphene Membranes with High Electrical Conductivity. Advanced Materials, 2016, 28, 1501-1509.	11.1	280
11	Ultraâ€Robust Graphene Oxideâ€Silk Fibroin Nanocomposite Membranes. Advanced Materials, 2013, 25, 2301-2307.	11.1	261
12	Synthesis, Assembly, and Applications of Hybrid Nanostructures for Biosensing. Chemical Reviews, 2017, 117, 12942-13038.	23.0	258
13	Graphene Oxideâ€'Polyelectrolyte Nanomembranes. ACS Nano, 2010, 4, 4667-4676.	7.3	257
14	Responsive microcapsule reactors based on hydrogen-bonded tannic acid layer-by-layer assemblies. Soft Matter, 2010, 6, 3596.	1.2	243
15	Responsive brush layers: from tailored gradients to reversibly assembled nanoparticles. Soft Matter, 2008, 4, 714.	1.2	234
16	Collective and Individual Plasmon Resonances in Nanoparticle Films Obtained by Spin-Assisted Layer-by-Layer Assembly. Langmuir, 2004, 20, 882-890.	1.6	225
17	Externalâ€Strain Induced Insulating Phase Transition in VO₂ Nanobeam and Its Application as Flexible Strain Sensor. Advanced Materials, 2010, 22, 5134-5139.	11.1	223
18	Probing Soft Matter with the Atomic Force Microscopies: Imaging and Force Spectroscopy. Polymer Reviews, 2010, 50, 235-286.	5.3	215

#	Article	IF	Citations
19	Dendritic Macromolecules at Interfaces. Advanced Materials, 1998, 10, 253-257.	11.1	205
20	Micromechanical Properties of Elastic Polymeric Materials As Probed by Scanning Force Microscopy. Langmuir, 1998, 14, 2606-2609.	1.6	197
21	Porous Substrates for Label-Free Molecular Level Detection of Nonresonant Organic Molecules. ACS Nano, 2009, 3, 181-188.	7.3	190
22	Epoxy-Terminated Self-Assembled Monolayers:Â Molecular Glues for Polymer Layers. Langmuir, 2000, 16, 504-516.	1.6	187
23	Molecular Lubricants and Glues for Micro- and Nanodevices. Advanced Materials, 2001, 13, 95-108.	11.1	186
24	Freely Suspended Layer-by-Layer Nanomembranes: Testing Micromechanical Properties. Advanced Functional Materials, 2005, 15, 771-780.	7.8	182
25	Naturally-derived biopolymer nanocomposites: Interfacial design, properties and emerging applications. Materials Science and Engineering Reports, 2018, 125, 1-41.	14.8	182
26	Assembly of supramolecular polymers in ultrathin films. Progress in Polymer Science, 1997, 22, 247-311.	11.8	181
27	Cell Surface Engineering with Polyelectrolyte Multilayer Thin Films. Journal of the American Chemical Society, 2011, 133, 7054-7064.	6.6	178
28	Polystyrene Layers Grafted to Epoxy-Modified Silicon Surfaces. Macromolecules, 2000, 33, 1043-1048.	2.2	176
29	The architectures and surface behavior of highly branched molecules. Progress in Polymer Science, 2008, 33, 523-580.	11.8	174
30	Bimaterial Microcantilevers as a Hybrid Sensing Platform. Advanced Materials, 2008, 20, 653-680.	11.1	172
31	Competitive Adsorption of Dopamine and Rhodamine 6G on the Surface of Graphene Oxide. ACS Applied Materials & Interfaces, 2014, 6, 2459-2470.	4.0	171
32	Nanoparticleâ€Decorated Nanocanals for Surfaceâ€Enhanced Raman Scattering. Small, 2008, 4, 1980-1984.	5.2	167
33	Reorganization of Binary Polymer Brushes:Â Reversible Switching of Surface Microstructures and Nanomechanical Properties. Macromolecules, 2003, 36, 7244-7255.	2.2	165
34	Scanning Probe Microscopy of Polymer Surfaces. Rubber Chemistry and Technology, 1997, 70, 430-467.	0.6	164
35	Scanning probe microscopy of organic and polymeric films: from self-assembled monolayers to composite multilayers. Polymer, 1995, 36, 1791-1808.	1.8	162
36	Strongly Coupled Plasmonic Modes on Macroscopic Areas via Template-Assisted Colloidal Self-Assembly. Nano Letters, 2014, 14, 6863-6871.	4.5	162

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37	Liquid-Crystalline Processing of Highly Oriented Carbon Nanotube Arrays for Thin-Film Transistors. Nano Letters, 2006, 6, 1443-1448.	4.5	157
38	Nanoscale design of snake skin for reptation locomotions via friction anisotropy. Journal of Biomechanics, 1999, 32, 477-484.	0.9	146
39	Ultrathin Layer-by-Layer Hydrogels with Incorporated Gold Nanorods as pH-Sensitive Optical Materials. Chemistry of Materials, 2008, 20, 7474-7485.	3.2	141
40	Hydrogen-bonded LbL shells for living cell surface engineering. Soft Matter, 2011, 7, 2364-2372.	1.2	140
41	Biopolymeric photonic structures: design, fabrication, and emerging applications. Chemical Society Reviews, 2020, 49, 983-1031.	18.7	138
42	Hydrogelâ€Encapsulated Microfabricated Haircells Mimicking Fish Cupula Neuromast. Advanced Materials, 2007, 19, 2903-2909.	11.1	137
43	Writtenâ€in Conductive Patterns on Robust Graphene Oxide Biopaper by Electrochemical Microstamping. Angewandte Chemie - International Edition, 2013, 52, 13784-13788.	7.2	132
44	Y-Shaped Polymer Brushes:Â Nanoscale Switchable Surfaces. Langmuir, 2003, 19, 7832-7836.	1.6	130
45	Electrostatic Deposition of Polyionic Monolayers on Charged Surfacesâ€. Macromolecules, 1997, 30, 6615-6625.	2.2	125
46	Bimetallic Nanocobs: Decorating Silver Nanowires with Gold Nanoparticles. Advanced Materials, 2008, 20, 1544-1549.	11.1	125
47	Architecture, Assembly, and Emerging Applications of Branched Functional Polyelectrolytes and Poly(ionic liquid)s. ACS Applied Materials & Interfaces, 2015, 7, 12570-12596.	4.0	125
48	Sticky Molecular Surfaces:Â Epoxysilane Self-Assembled Monolayers. Langmuir, 1999, 15, 3029-3032.	1.6	123
49	Y-Shaped Amphiphilic Brushes with Switchable Micellar Surface Structures. Journal of the American Chemical Society, 2003, 125, 15912-15921.	6.6	123
50	Enabling Tailorable Optical Properties and Markedly Enhanced Stability of Perovskite Quantum Dots by Permanently Ligating with Polymer Hairs. Advanced Materials, 2019, 31, e1901602.	11.1	119
51	Unconventional route to dual-shelled organolead halide perovskite nanocrystals with controlled dimensions, surface chemistry, and stabilities. Science Advances, 2019, 5, eaax4424.	4.7	116
52	Atomic Force Microscopy and X-ray Reflectivity Studies of Albumin Adsorbed onto Self-Assembled Monolayers of Hexadecyltrichlorosilane. Langmuir, 1998, 14, 4535-4544.	1.6	115
53	Self-Assembly of Emissive Nanocellulose/Quantum Dot Nanostructures for Chiral Fluorescent Materials. ACS Nano, 2019, 13, 9074-9081.	7.3	115
54	Biologically inspired design of hydrogel-capped hair sensors for enhanced underwater flow detection. Soft Matter, 2009, 5, 292-295.	1.2	114

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55	Assembling of Amphiphilic Highly Branched Molecules in Supramolecular Nanofibers. Journal of the American Chemical Society, 2004, 126, 9675-9684.	6.6	113
56	Nanotube Surface Arrays: Weaving, Bending, and Assembling on Patterned Silicon. Physical Review Letters, 2004, 92, 065502.	2.9	113
57	Assemblies of silver nanocubes for highly sensitive SERS chemical vapor detection. Journal of Materials Chemistry A, 2013, 1, 2777.	5.2	111
58	Exploration of Plasma-Enhanced Chemical Vapor Deposition as a Method for Thin-Film Fabrication with Biological Applications. ACS Applied Materials & Interfaces, 2013, 5, 3983-3994.	4.0	110
59	Silkâ€onâ€Silk Layerâ€byâ€Layer Microcapsules. Advanced Materials, 2011, 23, 4655-4660.	11.1	108
60	Template-Guided Assembly of Silk Fibroin on Cellulose Nanofibers for Robust Nanostructures with Ultrafast Water Transport. ACS Nano, 2017, 11, 12008-12019.	7.3	107
61	Spring constants of composite ceramic/gold cantilevers for scanning probe microscopy. Thin Solid Films, 1999, 339, 249-257.	0.8	106
62	Biomimetic Coatings to Control Cellular Function through Cell Surface Engineering. Advanced Functional Materials, 2013, 23, 4437-4453.	7.8	106
63	Organic Molecular Films under Shear Forces:Â Fluid and Solid Langmuir Monolayers. Langmuir, 1996, 12, 4840-4849.	1.6	102
64	Mechanically Tunable Three-Dimensional Elastomeric Network/Air Structures via Interference Lithography. Nano Letters, 2006, 6, 740-743.	4.5	98
65	Spin-Assisted Layer-by-Layer Assembly: Variation of Stratification as Studied with Neutron Reflectivity. Langmuir, 2009, 25, 14017-14024.	1.6	97
66	Selfâ€Powered Electronic Skin with Biotactile Selectivity. Advanced Materials, 2016, 28, 3549-3556.	11.1	97
67	Largeâ€Area Lasing and Multicolor Perovskite Quantum Dot Patterns. Advanced Optical Materials, 2018, 6, 1800474.	3.6	95
68	Bioinspired Material Approaches to Sensing. Advanced Functional Materials, 2009, 19, 2527-2544.	7.8	93
69	Probing of Polymer Surfaces in the Viscoelastic Regime. Langmuir, 2014, 30, 10566-10582.	1.6	93
70	Wrapping Nanocellulose Nets around Graphene Oxide Sheets. Angewandte Chemie - International Edition, 2018, 57, 8508-8513.	7.2	93
71	Columnar ordering of liquid-crystalline discotics in Langmuir-Blodgett films. Langmuir, 1992, 8, 2279-2283.	1.6	92
72	Complex Buckling Instability Patterns of Nanomembranes with Encapsulated Gold Nanoparticle Arrays. Nano Letters, 2006, 6, 2254-2259.	4.5	92

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73	In situ Growth of Silver Nanoparticles in Porous Membranes for Surface-Enhanced Raman Scattering. ACS Applied Materials & Interfaces, 2010, 2, 3333-3339.	4.0	92
74	Nanomechanical Probing of Layered Nanoscale Polymer Films With Atomic Force Microscopy. Journal of Materials Research, 2004, 19, 716-728.	1.2	91
75	Buckling instabilities in periodic composite polymeric materials. Soft Matter, 2010, 6, 5681.	1.2	91
76	pH-Responsive Layer-by-Layer Nanoshells for Direct Regulation of Cell Activity. ACS Nano, 2012, 6, 4266-4278.	7.3	91
77	Polymeric Nanolayers as Actuators for Ultrasensitive Thermal Bimorphs. Nano Letters, 2006, 6, 730-734.	4.5	88
78	Nanotribological Properties of Composite Molecular Films:â€‰ C60 Anchored to a Self-Assembled Monolayer. Langmuir, 1996, 12, 3905-3911.	1.6	87
79	Reconfigurable and actuating structures from soft materials. Soft Matter, 2014, 10, 1246-1263.	1.2	87
80	pH-Controlled Exponential and Linear Growing Modes of Layer-by-Layer Assemblies of Star Polyelectrolytes. Journal of the American Chemical Society, 2011, 133, 9592-9606.	6.6	86
81	Probing of Micromechanical Properties of Compliant Polymeric Materials. Journal of Materials Science, 1998, 33, 4905-4909.	1.7	85
82	Plasmonic Library Based on Substrate-Supported Gradiential Plasmonic Arrays. ACS Nano, 2014, 8, 9410-9421.	7.3	84
83	On the structure of polyamidoamine dendrimer monolayers. Polymer, 1998, 39, 5249-5252.	1.8	83
84	Nanotribological Properties of Organic Boundary Lubricants: Langmuir Films Versus Self-Assembled Monolayers. Journal of Tribology, 1998, 120, 489-495.	1.0	82
85	Flexible Silkâ€“Inorganic Nanocomposites: From Transparent to Highly Reflective. Advanced Functional Materials, 2010, 20, 840-846.	7.8	82
86	All-Inorganic Perovskite Nanocrystals with a Stellar Set of Stabilities and Their Use in White Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2018, 10, 37267-37276.	4.0	82
87	Combing and Bending of Carbon Nanotube Arrays with Confined Microfluidic Flow on Patterned Surfaces. Journal of Physical Chemistry B, 2004, 108, 4385-4393.	1.2	81
88	Dramatic Enhancement of Graphene Oxide/Silk Nanocomposite Membranes: Increasing Toughness, Strength, and Youngâ€™s modulus via Annealing of Interfacial Structures. ACS Applied Materials & Interfaces, 2016, 8, 24962-24973.	4.0	81
89	Amphiphilic Dendritic Molecules:Â Hyperbranched Polyesters with Alkyl-Terminated Branches. Macromolecules, 2003, 36, 3101-3110.	2.2	77
90	Directed Selfâ€Assembly of Gradient Concentric Carbon Nanotube Rings. Advanced Functional Materials, 2008, 18, 2114-2122.	7.8	77

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91	Amphiphilic Heteroarm PEO-b-PSmStar Polymers at the Airâ^'Water Interface:Â Aggregation and Surface Morphology. Macromolecules, 2004, 37, 6511-6522.	2.2	76
92	Atomic Force Microscopy of C60 Tethered to a Self-Assembled Monolayer. Langmuir, 1994, 10, 996-999.	1.6	74
93	Freely Suspended Gold Nanoparticle Arrays. Advanced Materials, 2005, 17, 1669-1673.	11.1	74
94	Chiral Cellulose Nanocrystals with Intercalated Amorphous Polysaccharides for Controlled Iridescence and Enhanced Mechanics. Advanced Functional Materials, 2020, 30, 2003597.	7.8	73
95	Synthesis and Interfacial Behavior of Amphiphilic Hyperbranched Polymers:Â Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	2.2	72
96	Inkjet Printing of Silk Nest Arrays for Cell Hosting. Biomacromolecules, 2014, 15, 1428-1435.	2.6	72
97	Cellulose Nanocrystal Microcapsules as Tunable Cages for Nano- and Microparticles. ACS Nano, 2015, 9, 10887-10895.	7.3	72
98	Some aspects of AFM nanomechanical probing of surface polymer films. European Polymer Journal, 2004, 40, 949-956.	2.6	70
99	Langmuirâ^'Blodgett Monolayers of Gold Nanoparticles with Amphiphilic Shells from V-Shaped Binary Polymer Arms. Langmuir, 2006, 22, 7011-7015.	1.6	70
100	Unfolding the multi-length scale domain structure of silk fibroin protein. Polymer, 2006, 47, 5821-5830.	1.8	70
101	Friction Force Microscopy Measurements: Normal and Torsional Spring Constants for V-Shaped Cantilevers. Journal of Tribology, 1998, 120, 814-819.	1.0	69
102	pH-Responsive Layered Hydrogel Microcapsules as Gold Nanoreactors. Chemistry of Materials, 2009, 21, 2158-2167.	3.2	69
103	Amphiphilic Hairy Disks with Branched Hydrophilic Tails and a Hexa-peri-hexabenzocoronene Core. Journal of the American Chemical Society, 2002, 124, 9121-9128.	6.6	68
104	Using Amphiphilic Nanostructures To Enable Long-Range Ensemble Coalescence and Surface Rejuvenation in Dropwise Condensation. ACS Nano, 2012, 6, 3262-3268.	7.3	68
105	Columnar discotics for light emitting diodes. Advanced Materials, 1997, 9, 48-52.	11.1	67
106	Direct Measurement of Thermoelastic Properties of Glassy and Rubbery Polymer Brush Nanolayers Grown by â€œGrafting-fromâ€•Approach. Langmuir, 2003, 19, 6126-6134.	1.6	67
107	Perforated, Freely Suspended Layer-by-Layer Nanoscale Membranes. Langmuir, 2008, 24, 5996-6006.	1.6	67
108	Electrically Controlled Plasmonic Behavior of Gold Nanocube@Polyaniline Nanostructures: Transparent Plasmonic Aggregates. Chemistry of Materials, 2016, 28, 2868-2881.	3.2	67

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109	Surface Nanomechanical Properties of Polymer Nanocomposite Layers. Langmuir, 2001, 17, 6715-6719.	1.6	66
110	Thermo-Optical Arrays of Flexible Nanoscale Nanomembranes Freely Suspended over Microfabricated Cavities as IR Microimagers. Chemistry of Materials, 2006, 18, 2632-2634.	3.2	66
111	Nanoporous Membranes with Mixed Nanoclusters for Raman-Based Label-Free Monitoring of Peroxide Compounds. Analytical Chemistry, 2009, 81, 5740-5748.	3.2	66
112	Anisotropic Microâ€•and Nanoâ€Capsules. Macromolecular Rapid Communications, 2010, 31, 2041-2046.	2.0	66
113	Co-cross-linking Silk Matrices with Silica Nanostructures for Robust Ultrathin Nanocomposites. ACS Nano, 2010, 4, 7053-7063.	7.3	66
114	pH-responsive photoluminescent LbL hydrogels with confined quantum dots. Soft Matter, 2010, 6, 800-807.	1.2	66
115	Chemical Reduction of Individual Graphene Oxide Sheets as Revealed by Electrostatic Force Microscopy. Journal of the American Chemical Society, 2014, 136, 6546-6549.	6.6	66
116	Cellulose nanocrystals with different morphologies and chiral properties. Polymer, 2018, 145, 334-347.	1.8	66
117	Nondestructive Light-Initiated Tuning of Layer-by-Layer Microcapsule Permeability. ACS Nano, 2013, 7, 598-613.	7.3	65
118	Bioenabled Surfaceâ€Mediated Growth of Titania Nanoparticles. Advanced Materials, 2008, 20, 3274-3279.	11.1	64
119	Robust Chiral Organization of Cellulose Nanocrystals in Capillary Confinement. Nano Letters, 2018, 18, 6770-6777.	4.5	63
120	Bioencapsulated MXene Flakes for Enhanced Stability and Composite Precursors. Advanced Functional Materials, 2020, 30, 2004554.	7.8	63
121	Encapsulating Nanoparticle Arrays into Layer-by-layer Multilayers by Capillary Transfer Lithography. Chemistry of Materials, 2005, 17, 5489-5497.	3.2	62
122	Substrate- and Time-Dependent Photoluminescence of Quantum Dots Inside the Ultrathin Polymer LbL Film. Langmuir, 2007, 23, 4509-4515.	1.6	62
123	Multicompartmental Microcapsules with Orthogonal Programmable Twoâ€Way Sequencing of Hydrophobic and Hydrophilic Cargo Release. Angewandte Chemie - International Edition, 2016, 55, 4908-4913.	7.2	62
124	Synthesis and Properties of Asymmetric Heteroarm PEOn-b-PSmStar Polymers with End Functionalities. Macromolecules, 2004, 37, 7497-7506.	2.2	61
125	Microtribological and Nanomechanical Properties of Switchable Y-Shaped Amphiphilic Polymer Brushes. Advanced Functional Materials, 2005, 15, 1529-1540.	7.8	61
126	Strain-Sensitive Raman Modes of Carbon Nanotubes in Deflecting Freely Suspended Nanomembranes. Advanced Materials, 2005, 17, 2127-2131.	11.1	61

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127	Adaptive Nanomechanical Response of Stratified Polymer Brush Structures. Langmuir, 2007, 23, 265-273.	1.6	60
128	Perfect mixing of immiscible macromolecules at fluid interfaces. Nature Materials, 2013, 12, 735-740.	13.3	60
129	Single functional group interactions with individual carbon nanotubes. Nature Nanotechnology, 2007, 2, 692-697.	15.6	59
130	Bifurcated Mechanical Behavior of Deformed Periodic Porous Solids. Advanced Functional Materials, 2009, 19, 1426-1436.	7.8	59
131	In-situ Observation of Switchable Nanoscale Topography for Y-Shaped Binary Brushes in Fluids. Nano Letters, 2005, 5, 491-495.	4.5	58
132	Bimetallic Nanostructures as Active Raman Markers: Goldâ€Nanoparticle Assembly on 1D and 2D Silver Nanostructure Surfaces. Small, 2009, 5, 2460-2466.	5.2	58
133	Robust and Responsive Silk Ionomer Microcapsules. Biomacromolecules, 2011, 12, 4319-4325.	2.6	58
134	Silk Fibroinâ€“Substrate Interactions at Heterogeneous Nanocomposite Interfaces. Advanced Functional Materials, 2016, 26, 6380-6392.	7.8	57
135	Ultra-efficient polymer binder for silicon anode in high-capacity lithium-ion batteries. Nano Energy, 2020, 73, 104804.	8.2	57
136	Dynamic microprobing of viscoelastic polymer properties. Polymer International, 2000, 49, 441-444.	1.6	56
137	Replication of anisotropic dispersed particulates and complex continuous templates. Journal of Materials Chemistry, 2010, 20, 6587.	6.7	56
138	Thermoplastic Elastomer Monolayers Grafted to a Functionalized Silicon Surface. Macromolecules, 2000, 33, 7629-7638.	2.2	55
139	Polymerâ€“Silicon Flexible Structures for Fast Chemical Vapor Detection. Advanced Materials, 2007, 19, 4248-4255.	11.1	55
140	Packing of columns in Langmuir-Blodgett films of discotic mixtures with charge-transfer interactions. Langmuir, 1993, 9, 614-618.	1.6	54
141	Direct Probing of Micromechanical Properties of Hydrogen-Bonded Layer-by-Layer Microcapsule Shells with Different Chemical Compositions. Langmuir, 2011, 27, 11157-11165.	1.6	54
142	Probing Surface Microthermal Properties by Scanning Thermal Microscopy. Langmuir, 1999, 15, 8340-8343.	1.6	53
143	Viscoelastic nanoscale properties of cuticle contribute to the high-pass properties of spider vibration receptor (Cupiennius salei Keys). Journal of the Royal Society Interface, 2007, 4, 1135-1143.	1.5	53
144	Highly Conductive and Transparent Reduced Graphene Oxide Nanoscale Films via Thermal Conversion of Polymer-Encapsulated Graphene Oxide Sheets. ACS Applied Materials & Interfaces, 2018, 10, 3975-3985.	4.0	53

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145	Strongly-ligated perovskite quantum dots with precisely controlled dimensions and architectures for white light-emitting diodes. Nano Energy, 2020, 77, 105043.	8.2	52
146	Molecular Stiffness of Individual Hyperbranched Macromolecules at Solid Surfaces. Macromolecules, 2003, 36, 2825-2831.	2.2	51
147	Supramolecular Multiscale Fibers through One-Dimensional Assembly of Dendritic Molecules. Advanced Materials, 2004, 16, 2206-2212.	11.1	51
148	Seriographyâ€Guided Reduction of Graphene Oxide Biopapers for Wearable Sensory Electronics. Advanced Functional Materials, 2017, 27, 1604802.	7.8	51
149	Permeability and Micromechanical Properties of Silk Ionomer Microcapsules. Langmuir, 2012, 28, 12235-12244.	1.6	50
150	Nanofibers from Functionalized Dendritic Molecules. Angewandte Chemie - International Edition, 2004, 43, 5246-5249.	7.2	49
151	Thermoresponsive Reversible Behavior of Multistimuli Pluronic-Based Pentablock Copolymer at the Airâ^'Water Interface. Langmuir, 2007, 23, 25-30.	1.6	49
152	Polyaminoacid-Induced Growth of Metal Nanoparticles on Layer-by-Layer Templates. Chemistry of Materials, 2008, 20, 5822-5831.	3.2	49
153	Redox-Active Ultrathin Template of Silk Fibroin: Effect of Secondary Structure on Gold Nanoparticle Reduction. Chemistry of Materials, 2009, 21, 2696-2704.	3.2	49
154	Robust Microcapsules with Controlled Permeability from Silk Fibroin Reinforced with Graphene Oxide. Small, 2014, 10, 5087-5097.	5.2	49
155	Ultrathin Binary Grafted Polymer Layers with Switchable Morphology. Langmuir, 2004, 20, 10046-10054.	1.6	48
156	Formation of Silver Nanoparticles at the Airâ^'Water Interface Mediated by a Monolayer of Functionalized Hyperbranched Molecules. Langmuir, 2006, 22, 1027-1037.	1.6	48
157	Dual-Responsive Reversible Plasmonic Behavior of Coreâ€"Shell Nanostructures with pH-Sensitive and Electroactive Polymer Shells. Chemistry of Materials, 2016, 28, 7551-7563.	3.2	48
158	Photoresponsive Langmuir Monolayers from Azobenzene-Containing Dendrons. Langmuir, 2000, 16, 10569-10572.	1.6	47
159	Bulk and Surface Assembly of Branched Amphiphilic Polyhedral Oligomer Silsesquioxane Compounds. Langmuir, 2009, 25, 1196-1209.	1.6	47
160	Silk Macromolecules with Amino Acidâ€"Poly(Ethylene Glycol) Grafts for Controlling Layer-by-Layer Encapsulation and Aggregation of Recombinant Bacterial Cells. ACS Nano, 2015, 9, 1219-1235.	7.3	47
161	Hierarchical Assembly of Star Polymer Polymersomes into Responsive Multicompartmental Microcapsules. Chemistry of Materials, 2016, 28, 975-985.	3.2	47
162	Truly Nonionic Polymer Shells for the Encapsulation of Living Cells. Macromolecular Bioscience, 2011, 11, 1244-1253.	2.1	46

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163	Thermo-Induced Limited Aggregation of Responsive Star Polyelectrolytes. Macromolecules, 2014, 47, 2112-2121.	2.2	46
164	Plasmonic Nanogels for Unclonable Optical Tagging. ACS Applied Materials & Interfaces, 2016, 8, 4031-4041.	4.0	46
165	Interfacial Micellar Structures from Novel Amphiphilic Star Polymers. Langmuir, 2004, 20, 9044-9052.	1.6	45
166	Instabilities and Pattern Transformation in Periodic, Porous Elastoplastic Solid Coatings. ACS Applied Materials & Interfaces, 2009, 1, 42-47.	4.0	45
167	Robust Plasma Polymerized-Titania/Silica Janus Microparticles. Chemistry of Materials, 2010, 22, 3259-3264.	3.2	45
168	Morphology and Properties of Microcapsules with Different Core Releases. Chemistry of Materials, 2012, 24, 1245-1254.	3.2	45
169	Cell Surface Engineering with Edible Protein Nanoshells. Small, 2013, 9, 3128-3137.	5.2	45
170	Biopolymeric Nanocomposites with Enhanced Interphases. Langmuir, 2015, 31, 10859-10870.	1.6	45
171	Ultrastrong Freestanding Graphene Oxide Nanomembranes with Surface-Enhanced Raman Scattering Functionality by Solvent-Assisted Single-Component Layer-by-Layer Assembly. ACS Nano, 2016, 10, 6702-6715.	7.3	45
172	Core/Alloyed-Shell Quantum Dot Robust Solid Films with High Optical Gains. ACS Photonics, 2016, 3, 647-658.	3.2	45
173	Hyperbranched Polyesters on Solid Surfaces. Langmuir, 2001, 17, 5924-5931.	1.6	44
174	Surface Enhanced Raman Scattering Monitoring of Chain Alignment in Freely Suspended Nanomembranes. Physical Review Letters, 2005, 95, 115503.	2.9	44
175	Carbon Nanotube Arrays Encapsulated into Freely Suspended Flexible Films. Chemistry of Materials, 2005, 17, 2490-2493.	3.2	44
176	Photoluminescence of a Freely Suspended Monolayer of Quantum Dots Encapsulated into Layer-by-Layer Films. Langmuir, 2007, 23, 10176-10183.	1.6	44
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