Jie Yin

List of Publications by Citations

192 papers	6,083 citations	40 h-index	70 g-index
202 ext. papers	7,095 ext. citations	7.9 avg, IF	6.28 L-index

#	Paper	IF	Citations
192	Mechanically strong graphene oxide/sodium alginate/polyacrylamide nanocomposite hydrogel with improved dye adsorption capacity. *Journal of Materials Chemistry A*, **2013**, 1, 7433	13	346
191	Preparation of polychrome silver nanoparticles in different solvents. *Journal of Materials Chemistry*, **2002**, 12, 3783-3786		240
190	Smart Windows: Electro-, Thermo-, Mechano-, Photochromics, and Beyond. *Advanced Energy Materials*, **2019**, 9, 1902066	21.8	216
189	Boron nitride nanosheets: large-scale exfoliation in methanesulfonic acid and their composites with polybenzimidazole. *Journal of Materials Chemistry*, **2011**, 21, 11371		193
188	Stress-driven buckling patterns in spheroidal core/shell structures. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 19132-5	11.5	176
187	Buckling patterns of thin films on curved compliant substrates with applications to morphogenesis and three-dimensional micro-fabrication. *Soft Matter*, **2010**, 6, 5667	3.6	158
186	Programmable Kiri-Kirigami Metamaterials. *Advanced Materials*, **2017**, 29, 1604262	24	157
185	Self-assembly of graphene into three-dimensional structures promoted by natural phenolic acids. *Journal of Materials Chemistry*, **2012**, 22, 22459		148
184	An Eco-Friendly Scheme for the Cross-Linked Polybutadiene Elastomer via Thiol–Ene and Diels–Alder Click Chemistry. *Macromolecules*, **2015**, 48, 3539-3546	5.5	127
183	Poly(vinyl alcohol) (PVA)-Enhanced Hybrid Hydrogels of Hyperbranched Poly(ether amine) (hPEA) for Selective Adsorption and Separation of Dyes. *Macromolecules*, **2013**, 46, 2399-2406	5.5	123
182	Design of cut unit geometry in hierarchical kirigami-based auxetic metamaterials for high stretchability and compressibility. *Extreme Mechanics Letters*, **2017**, 12, 77-85	3.9	119
181	Design of Hierarchically Cut Hinges for Highly Stretchable and Reconfigurable Metamaterials with Enhanced Strength. *Advanced Materials*, **2015**, 27, 7181-90	24	119
180	Deterministic order in surface micro-topologies through sequential wrinkling. *Advanced Materials*, **2012**, 24, 5441-6	24	117
179	Controlled crumpling of graphene oxide films for tunable optical transmittance. *Advanced Materials* , **2015**, 27, 3256-65	24	112
178	Leveraging elastic instabilities for amplified performance: Spine-inspired high-speed and high-force soft robots. *Science Advances*, **2020**, 6, eaaz6912	14.3	98
177	Synthesis and characterization of hyperbranched polyimides with good organosolubility and thermal properties based on a new triamine and conventional dianhydrides. *Journal of Polymer Science Part A*, **2002**, 40, 3804-3814	2.5	96
176	Anisotropic buckling patterns in spheroidal film/substrate systems and their implications in some natural and biological systems. *Journal of the Mechanics and Physics of Solids*, **2009**, 57, 1470-1484	5	90

175	Near-infrared light-responsive dynamic wrinkle patterns. *Science Advances*, **2018**, 4, eaar5762	14.3	83
174	Gelatin-assisted fabrication of water-dispersible graphene and its inorganic analogues. *Journal of Materials Chemistry*, **2012**, 22, 17619		81
173	Adaptive Thermochromic Windows from Active Plasmonic Elastomers. *Joule*, **2019**, 3, 858-871	27.8	76
172	Direct exfoliation of graphene in methanesulfonic acid and facile synthesis of graphene/polybenzimidazole nanocomposites. *Journal of Materials Chemistry*, **2011**, 21, 505-512		69
171	Origami and kirigami inspired self-folding for programming three-dimensional shape shifting of polymer sheets with light. *Extreme Mechanics Letters*, **2017**, 11, 111-120	3.9	68
170	Kirigami-Inspired Nanoconfined Polymer Conducting Nanosheets with 2000% Stretchability. *Advanced Materials*, **2018**, 30, e1706390	24	67
169	Self-similar Hierarchical Wrinkles as a Potential Multifunctional Smart Window with Simultaneously Tunable Transparency, Structural Color, and Droplet Transport. *ACS Applied Materials & Interfaces*, **2017**, 9, 26510-26517	9.5	66
168	Polymeric Photoinitiator Containing In-Chain Thioxanthone and Coinitiator Amines. *Macromolecular Rapid Communications*, **2004**, 25, 748-752	4.8	65
167	Understanding the Host–Guest Interaction Between Responsive Core-Crosslinked Hybrid Nanoparticles of Hyperbranched Poly(ether amine) and Dyes: The Selective Adsorption and Smart Separation of Dyes in Water. *Advanced Functional Materials*, **2012**, 22, 2606-2616	15.6	63
166	Gum arabic assisted exfoliation and fabrication of Ag–graphene-based hybrids. *Journal of Materials Chemistry*, **2012**, 22, 13764		61
165	Multistimuli Responsive Polymer Nanoparticles On the basis of the Amphiphilic Azobenzene-Contained Hyperbranched Poly(ether amine) (hPEA-AZO). *Macromolecules*, **2010**, 43, 10457–10465	5.5	59
164	Thiol-ene–photo-cured hybrid materials based on POSS and renewable vegetable oil. *Journal of Materials Chemistry*, **2011**, 21, 12753		59
163	Elastoplastic Inverse Opals as Power-Free Mechanochromic Sensors for Force Recording. *Advanced Functional Materials*, **2015**, 25, 6041-6049	15.6	58
162	Smart Patterned Surface with Dynamic Wrinkles. *Accounts of Chemical Research*, **2019**, 52, 1025-1035	24.3	57
161	Hybrid hydrogels of hyperbranched poly(ether amine)s (hPEAs) for selective adsorption of guest molecules and separation of dyes. *Journal of Materials Chemistry*, **2012**, 22, 10055		56
160	Reversible Diels-Alder Reaction To Control Wrinkle Patterns: From Dynamic Chemistry to Dynamic Patterns. *Advanced Materials*, **2016**, 28, 9126-9132	24	55
159	Dynamic wrinkling pattern exhibiting tunable fluorescence for anticounterfeiting applications. *Nature Communications*, **2020**, 11, 1811	17.4	55
158	Switchable Adhesion Actuator for Amphibious Climbing Soft Robot. *Soft Robotics*, **2018**, 5, 592-600	9.2	54

157	Self-Wrinkling Patterned Surface of Photocuring Coating Induced by the Fluorinated POSS Containing Thiol Groups (F-POSS-SH) as the Reactive Nanoadditive. *Macromolecules*, **2012**, 45, 7520-7526	5.5	52
156	Programmable active kirigami metasheets with more freedom of actuation. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**,	11.5	52
155	Graphene□aramid nanofiber nanocomposite paper with high mechanical and electrical performance. *RSC Advances*, **2013**, 3, 17664	3.7	50
154	Multi-responsive microgel of hyperbranched poly(ether amine) (hPEA-mGel) for the selective adsorption and separation of hydrophilic fluorescein dyes. *Journal of Materials Chemistry*, **2012**, 22, 17976		50
153	Cephalopod-inspired versatile design based on plasmonic VO2 nanoparticle for energy-efficient mechano-thermochromic windows. *Nano Energy*, **2020**, 73, 104785	17.1	42
152	Versatile Functionalization of the Micropatterned Hydrogel of Hyperbranched Poly(ether amine) Based on □thiol-yne□Chemistry. *Advanced Functional Materials*, **2014**, 24, 1679-1686	15.6	40
151	Synthesis of autophotosensitive hyperbranched polyimides based on 3,3?,4,4?-benzophenonetetracarboxylic dianhydride and 1,3,5-tris(4-aminophenoxy)benzene via end capping of the terminal anhydride groups by ortho-alkyl aniline. *Journal of Polymer Science Part A*, **2003**, 41, 2026-2035	2.5	40
150	PVC/montmorillonite nanocomposites based on a thermally stable, rigid-rod aromatic amine modifier. *Journal of Applied Polymer Science*, **2004**, 92, 567-575	2.9	38
149	Mechanics of nanoindentation on a monolayer of colloidal hollow nanoparticles. *Langmuir*, **2011**, 27, 10492-500	4	37
148	Mechanical self-assembly fabrication of gears. *Soft Matter*, **2009**, 5, 3469	3.6	36
147	Synthesis and characterization of negative-type photosensitive hyperbranched polyimides with excellent organosolubility from an A2 + B3 monomer system. *Journal of Polymer Science Part A*, **2004**, 42, 1735-1744	2.5	36
146	Geometric conservation laws for perfect Y-branched carbon nanotubes. *Nanotechnology*, **2006**, 17, 4941-4945	3.4	35
145	Mechanical modeling of a wrinkled fingertip immersed in water. *Acta Biomaterialia*, **2010**, 6, 1487-96	10.8	34
144	Multistimuli-responsive hyperbranched poly(ether amine)s. *Journal of Polymer Science Part A*, **2010**, 48, 4252-4261	2.5	34
143	A □thiol-ene□photo-curable hybrid fluorinated resist for the high-performance replica mold of nanoimprint lithography (NIL). *Journal of Materials Chemistry*, **2012**, 22, 2616-2623		33
142	Reversible Surface Dual-Pattern with Simultaneously Dynamic Wrinkled Topography and Fluorescence. *ACS Macro Letters*, **2018**, 7, 540-545	6.6	30
141	Shape Reconfiguration of a Biomimetic Elastic Membrane with a Switchable Janus Structure. *Advanced Functional Materials*, **2018**, 28, 1800939	15.6	30
140	Poly(ether tert-amine): A novel family of multiresponsive polymer. *Journal of Polymer Science Part A*, **2009**, 47, 1292-1297	2.5	29

139	A simple approach to preparation of polyhedral oligomeric silsesquioxane crosslinked poly(styrene-b-butadiene-b-styrene) elastomers with a unique micro-morphology via UV-induced thiol–ene reaction. *Polymer Chemistry*, **2014**, 5, 6761-6769	4.9	28
138	Spontaneous buckling-driven periodic delamination of thin films on soft substrates under large compression. *Journal of the Mechanics and Physics of Solids*, **2018**, 118, 40-57	5	28
137	Collective mechanical behavior of multilayer colloidal arrays of hollow nanoparticles. *Langmuir*, **2012**, 28, 5580-8	4	27
136	Elastic buckling of gradient thin films on compliant substrates. *Philosophical Magazine Letters*, **2010** , 90, 423-433	1	27
135	General mathematical frame for open or closed biomembranes (Part I): equilibrium theory and geometrically constraint equation. *Journal of Mathematical Biology*, **2005**, 51, 403-13	2	27
134	Small degree of anisotropic wetting on self-similar hierarchical wrinkled surfaces. *Soft Matter*, **2018** , 14, 1517-1529	3.6	26
133	Photo-crosslinked nanofibers of poly(ether amine) (PEA) for the ultrafast separation of dyes through molecular filtration. *Polymer Chemistry*, **2014**, 5, 2027-2034	4.9	26
132	Light-reversible hierarchical patterns by dynamic photo-dimerization induced wrinkles. *Journal of Materials Chemistry C*, **2017**, 5, 8765-8773	7.1	26
131	Highly efficient, polymerizable, sulfur-containing photoinitiator comprising a structure of planar N-phenylmaleimide and benzophenone for photopolymerization. *Journal of Polymer Science Part A*, **2006**, 44, 3738-3750	2.5	26
130	Poly(etherimide)/montmorillonite nanocomposites prepared by melt intercalation. *Journal of Applied Polymer Science*, **2003**, 90, 1857-1863	2.9	26
129	Simultaneous Formation of a Self-Wrinkled Surface and Silver Nanoparticles on a Functional Photocuring Coating. *Langmuir*, **2015**, 31, 11800-8	4	25
128	Self-wrinkling induced by the photopolymerization and self-assembly of fluorinated polymer at air/liquid interface. *Journal of Materials Chemistry A*, **2014**, 2, 18574-18582	13	25
127	Hybrid Core–Shell Microspheres from Coassembly of Anthracene-Containing POSS (POSS-AN) and Anthracene-Ended Hyperbranched Poly(ether amine) (hPEA-AN) and Their Responsive Polymeric Hollow Microspheres. *Macromolecules*, **2013**, 46, 3519-3528	5.5	25
126	Multifunctional POSS-Based Nano-Photo-Initiator for Overcoming the Oxygen Inhibition of Photo-Polymerization and for Creating Self-Wrinkled Patterns. *Advanced Materials Interfaces*, **2014**, 1, 1400385	4.6	25
125	Hierarchical 3D Patterns with Dynamic Wrinkles Produced by a Photocontrolled Diels-Alder Reaction on the Surface. *Advanced Materials*, **2020**, 32, e1906712	24	25
124	Materials science: Unique wrinkles as identity tags. *Nature*, **2015**, 520, 164-5	50.4	24
123	Selective Adsorption and Separation through Molecular Filtration by Hyperbranched Poly(ether amine)/Carbon Nanotube Ultrathin Membranes. *Langmuir*, **2016**, 32, 13073-13083	4	24
122	Reversible Surface Patterning by Dynamic Crosslink Gradients: Controlling Buckling in 2D. *Advanced Materials*, **2018**, 30, e1803463	24	24

121	Multi-Responsive Wrinkling Patterns by the Photoswitchable Supramolecular Network. *ACS Macro Letters*, **2017**, 6, 848-853	6.6	24
120	Multistimuli responsive amphiphilic graft poly(ether amine): Synthesis, characterization, and self-assembly in aqueous solution. *Journal of Polymer Science Part A*, **2010**, 48, 327-335	2.5	24
119	Developing an advanced daylight model for building energy tool to simulate dynamic shading device. *Solar Energy*, **2018**, 163, 140-149	6.8	23
118	Nanomechanics of layer-by-layer polyelectrolyte complexes: a manifestation of ionic cross-links and fixed charges. *Soft Matter*, **2016**, 12, 1158-69	3.6	23
117	Biaxially mechanical tuning of 2-D reversible and irreversible surface topologies through simultaneous and sequential wrinkling. *ACS Applied Materials & Interfaces*, **2014**, 6, 2850-7	9.5	23
116	Functionalization of unzipped carbon nanotube via in situ polymerization for mechanical reinforcement of polymer. *Journal of Materials Chemistry*, **2012**, 22, 17663		23
115	Synthesis and characterization of novel aromatic polyamides via Yamazaki□Higashi phosphorylation method. *Journal of Applied Polymer Science*, **2012**, 126, 244-252	2.9	23
114	Preparation of Auto-Photosensitive Hyperbranched Co-polyimide by the Condensation of 4,4′-(Hexafluoroisopropy1idene)diphthalic Anhydride and 3,3′,4,4′-Benzophenonetetracarboxylic Dianhydride with 1,3,5-Tris(4-aminophenoxy)benzene through a Stage Addition Reaction Method. *Polymer Bulletin*, **2003**, 50, 303-310	2.4	23
113	Revisiting Acetoacetyl Chemistry to Build Malleable Cross-Linked Polymer Networks via Transamidation. *ACS Macro Letters*, **2019**, 8, 233-238	6.6	23
112	Leveraging Monostable and Bistable Pre-Curved Bilayer Actuators for High-Performance Multitask Soft Robots. *Advanced Materials Technologies*, **2020**, 5, 2000370	6.8	22
111	Buckling patterns of thin films on compliant substrates: the effect of plasticity. *Journal Physics D: Applied Physics*, **2011**, 44, 045401	3	22
110	Responsive fluorescent core-crosslinked polymer particles based on the anthracene-containing hyperbranched poly(ether amine) (hPEA□AN). *Soft Matter*, **2011**, 7, 6853	3.6	22
109	Dynamic crosslinked poly(styrene-block-butadiene-block-styrene) via Diels□Alder chemistry: an ideal method to improve solvent resistance and mechanical properties without losing its thermal plastic behavior. *RSC Advances*, **2015**, 5, 45376-45383	3.7	21
108	Buckling of anisotropic films on cylindrical substrates: insights for self-assembly fabrication of 3D helical gears. *Journal Physics D: Applied Physics*, **2010**, 43, 115402	3	20
107	Effect on Photopolymerization of the Structure of Amine Coinitiators Contained in Novel Polymeric Benzophenone Photoinitiators. *Macromolecular Chemistry and Physics*, **2006**, 207, 1752-1763	2.6	20
106	Multi-responsive polymer nanoparticles from the amphiphilic poly(dimethylsiloxane) (PDMS)-containing poly(ether amine) (PDMS-gPEA) and its potential application for smart separation. *Journal of Materials Chemistry*, **2011**, 21, 4416		19
105	Novel polymeric, thio-containing photoinitiator comprising in-chain benzophenone and an amine coinitiator for photopolymerization. *Journal of Polymer Science Part A*, **2007**, 45, 576-587	2.5	19
104	Novel Polymerizable Sulfur-Containing Benzophenones as Free-Radical Photoinitiators for Photopolymerization. *Macromolecular Chemistry and Physics*, **2006**, 207, 1080-1086	2.6	19

103	Copolymeric photoinitiators containing in-chain thioxanthone and coinitiator amine for photopolymerization. *Journal of Applied Polymer Science*, **2004**, 94, 2395-2400	2.9	19
102	Preparation of PS/TiO2 core-shell microspheres and TiO2 hollow shells. *Journal of Materials Science*, **2003**, 38, 4911-4916	4.3	19
101	Thiol‐ene photo-curable hybrid silicone resin for LED encapsulation: enhancement of light extraction efficiency by facile self-keeping hemisphere coating. *Journal of Materials Chemistry C*, **2014**, 2, 5533-5539	7.1	18
100	Spontaneous Periodic Delamination of Thin Films To Form Crack-Free Metal and Silicon Ribbons with High Stretchability. *ACS Applied Materials & Interfaces*, **2017**, 9, 44938-44947	9.5	18
99	Tunable stimulus-responsive friction mechanisms of polyelectrolyte films and tube forests. *Soft Matter*, **2012**, 8, 8642	3.6	18
98	Study of Novel PU-Type Polymeric Photoinitiators Comprising of Side-Chain Benzophenone and Coinitiator Amine: Effect of Macromolecular Structure on Photopolymerization. *Macromolecular Chemistry and Physics*, **2007**, 208, 287-294	2.6	18
97	Pattern Memory Surface (PMS) with Dynamic Wrinkles for Unclonable Anticounterfeiting **2019**, 1, 77-82		17
96	Dynamic Interpenetrating Polymer Network (IPN) Strategy for Multiresponsive Hierarchical Pattern of Reversible Wrinkle. *ACS Applied Materials & Interfaces*, **2019**, 11, 15977-15985	9.5	17
95	Revisiting the mechanism of redox-polymerization to build the hydrogel with excellent properties using a novel initiator. *Soft Matter*, **2016**, 12, 2575-82	3.6	17
94	In situ polymerization induced supramolecular hydrogels of chitosan and poly(acrylic acid-acrylamide) with high toughness. *Materials Chemistry Frontiers*, **2017**, 1, 310-318	7.8	17
93	Structure-property relationships of LLDPE‐highly filled with aluminum hydroxide. *Journal of Applied Polymer Science*, **2002**, 85, 2485-2490	2.9	17
92	Preparation of Fully Imidized Hyperbranched Photosensitive Polyimide with Excellent Organosolubility and Thermal Property Based on 4,4′-(Hexafluoroisopropylidene) Diphthalic Anhydride (A2) and 1,3,5-Tris(4-aminophenoxy)benzene (B3). *Polymer Bulletin*, **2003**, 49, 313-320	2.4	17
91	Bistable and Multistable Actuators for Soft Robots: Structures, Materials, and Functionalities.. *Advanced Materials*, **2022**, e2110384	24	17
90	Hyperbranched poly(ether amine)@poly(vinylidene fluoride) (hPEA@PVDF) porous membranes for selective adsorption and molecular filtration of hydrophilic dyes. *Journal of Materials Chemistry A*, **2017**, 5, 10470-10479	13	16
89	Interfacial Activity of Amine-Functionalized Polyhedral Oligomeric Silsesquioxanes (POSS): A Simple Strategy To Structure Liquids. *Angewandte Chemie - International Edition*, **2019**, 58, 10142-10147	16.4	16
88	Novel polymerizable N-aromatic maleimides as free radical initiators for photopolymerization. *Polymer International*, **2006**, 55, 930-937	3.3	15
87	Stimuli-responsive microgels formed by hyperbranched poly(ether amine) decorated with platinum nanoparticles. *Soft Matter*, **2011**, 7, 8619	3.6	14
86	A water-soluble supramolecular-structured photoinitiator between methylated β-cyclodextrin and 2,2-dimethoxy-2-phenylacetophenone. *Journal of Applied Polymer Science*, **2007**, 105, 3819-3823	2.9	14

85	Equilibrium theory in 2D Riemann manifold for heterogeneous biomembranes with arbitrary variational modes. *Journal of Geometry and Physics*, **2008**, 58, 122-132	1.2	14
84	Dynamic Structural Color from Wrinkled Thin Films. *Advanced Optical Materials*, **2020**, 8, 2000234	8.1	14
83	Highly efficient fog harvesting on superhydrophobic microfibers through droplet oscillation and sweeping. *Soft Matter*, **2018**, 14, 8276-8283	3.6	14
82	A Highly Efficient Polyurethane-Type Polymeric Photoinitiator Containing In-chain Benzophenone and Coinitiator Amine for Photopolymerization of PU Prepolymers. *Macromolecular Chemistry and Physics*, **2006**, 207, 2321-2328	2.6	13
81	One-pot approach to synthesize hyperbranched poly(thiol–ether amine) (hPtEA) through sequential thiol–ene and epoxy–amine click reactions. *Polymer Chemistry*, **2015**, 6, 6946-6954	4.9	12
80	Mechanical properties of stingray tesserae: High-resolution correlative analysis of mineral density and indentation moduli in tessellated cartilage. *Acta Biomaterialia*, **2019**, 96, 421-435	10.8	12
79	ESR and kinetic study of a novel polymerizable photoinitiator comprising the structure of N-phenylmaleimide and benzophenone for photopolymerization. *Journal of Applied Polymer Science* , **2006**, 101, 2347-2354	2.9	11
78	Self-Assembly of Amphiphilic Anthracene-Functionalized Cyclodextrin (CD-AN) through Multi-Micelle Aggregation. *Macromolecular Rapid Communications*, **2016**, 37, 998-1004	4.8	11
77	Regulating surface wrinkles using light. *National Science Review*, **2020**, 7, 1247-1257	10.8	10
76	Polymeric Michler's ketone photoinitiator containing coinitiator amine. *Polymer Engineering and Science*, **2009**, 49, 1608-1615	2.3	10
75	Geometric theory for adhering lipid vesicles. *Colloids and Surfaces B: Biointerfaces*, **2009**, 74, 380-8	6	9
74	Symmetrical fundamental tensors, differential operators, and integral theorems in differential geometry. *Tsinghua Science and Technology*, **2008**, 13, 121-126	3.4	9
73	Performance evaluation of synthesized acrylic acid grafted polyethylene in aluminum hydroxide highly filled polyethylene composites. *Journal of Applied Polymer Science*, **2002**, 86, 2544-2549	2.9	9
72	Kirigami-Inspired Stretchable Conjugated Electronics. *Advanced Electronic Materials*, **2020**, 6, 1900929	6.4	9
71	Synthesis of Arenesulfonated Hyperbranched Polyimide from A2 + B3 Monomers. *Polymer Journal*, **2003**, 35, 280-285	2.7	8
70	Boundary curvature guided programmable shape-morphing kirigami sheets.. *Nature Communications*, **2022**, 13, 530	17.4	8
69	Light-Written Reversible 3D Fluorescence and Topography Dual-Pattern with Memory and Self-Healing Abilities. *Research*, **2019**, 2019, 2389254	7.8	8
68	3D Transformable Modular Kirigami Based Programmable Metamaterials. *Advanced Functional Materials*, **2021**, 31, 2105641	15.6	8

67	Versatile Approach to Building Dynamic Covalent Polymer Networks by Stimulating the Dormant Groups. *ACS Macro Letters*, **2018**, 7, 1371-1375	6.6	8
66	Design of Multifunctional Soft Doming Actuator for Soft Machines. *Advanced Materials Technologies*, **2018**, 3, 1800069	6.8	8
65	Interfacial Activity of Amine-Functionalized Polyhedral Oligomeric Silsesquioxanes (POSS): A Simple Strategy To Structure Liquids. *Angewandte Chemie*, **2019**, 131, 10248-10253	3.6	7
64	Polymerization-Induced Growth of Microprotuberance on the Photocuring Coating. *Langmuir*, **2017**, 33, 2027-2032	4	6
63	Photoreversible Growth of Micropattern. *Advanced Materials Interfaces*, **2016**, 3, 1600528	4.6	6
62	A Facile Method Synthesizing Hydrogel Using Hybranched Polyether Amine (hPEA) as Coinitiator and Crosslinker. *Macromolecular Chemistry and Physics*, **2017**, 218, 1700251	2.6	6
61	Cuts Guided Deterministic Buckling in Arrays of Soft Parallel Plates for Multifunctionality. *ACS Applied Materials & Interfaces*, **2017**, 9, 29345-29354	9.5	6
60	The Interaction Between Amphiphilic Polymer Materials and Guest Molecules: Selective Adsorption and Its Related Applications. *Macromolecular Chemistry and Physics*, **2014**, 215, 2283-2294	2.6	6
59	Spontaneous wrinkling pattern of a constrained thin film membrane. *Applied Physics A: Materials Science and Processing*, **2012**, 107, 761-767	2.6	6
58	Synthesis, photophysical properties, and electron paramagnetic resonance studies of new poly(bisbenzothiazole)s containing bulky pendant groups. *Polymer Engineering and Science*, **2007**, 47, 429-438	2.3	6
57	Study of Structure-property Relationships of Poly(benzobisthiazole) and its Derivatives. *Polymer Bulletin*, **2006**, 57, 269-279	2.4	6
56	Geometric conservation laws for cells or vesicles with membrane nanotubes or singular points. *Journal of Nanobiotechnology*, **2006**, 4, 6	9.4	6
55	Photodynamic Pattern Memory Surfaces with Responsive Wrinkled and Fluorescent Patterns. *Advanced Science*, **2020**, 7, 2002372	13.6	6
54	Micropatterns Fabricated by Photodimerization-Induced Diffusion. *Advanced Materials*, **2021**, 33, e2007699	27	6
53	Fabrication of Super Extensible and Highly Tough Graphene Composite Hydrogels by Thermal Treatment Strategy for the Mixture of Tannin and Graphene Oxide. *Macromolecular Chemistry and Physics*, **2017**, 218, 1600549	2.6	5
52	Free-Standing Buckle-Delaminated 2D Organic Nanosheets with Enhanced Mechanical Properties and Multifunctionality. *Advanced Materials Interfaces*, **2019**, 6, 1900561	4.6	5
51	Smart Windows: Smart Windows: Electro-, Thermo-, Mechano-, Photochromics, and Beyond (Adv. Energy Mater. 39/2019). *Advanced Energy Materials*, **2019**, 9, 1970153	21.8	5
50	Non-additive impacts of covalent cross-linking on the viscoelastic nanomechanics of ionic polyelectrolyte complexes. *RSC Advances*, **2017**, 7, 53334-53345	3.7	5

49	Synthesis of stimuli-responsive star-like copolymer H20-PNIPAm-r-PEGMA via the ATRP copolymerization technique and its micellization in aqueous solution. *Journal of Applied Polymer Science*, **2010**, 115, 1831-1840	2.9	5
48	Multistimuli responsive micelles based on well-defined amphiphilic comb poly(ether amine) (acPEA). *Journal of Polymer Science Part A*, **2010**, 48, 3468-3475	2.5	5
47	Microstructural design for mechanical-optical multifunctionality in the exoskeleton of the flower beetle. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	5
46	Toward Multifunctional Polymer Hybrid through Tunable Charge Transfer Interaction of Anthracene/Naphthalenediimide. *Advanced Materials Interfaces*, **2016**, 3, 1600224	4.6	5
45	Exploring multiple functions of diarylsemipinacol linked to the saturated ethylene-propylene elastomer: from the dynamic covalent networks to tailoring its macroscopic performance. *Polymer Chemistry*, **2019**, 10, 6157-6165	4.9	5
44	Structure-Mechanical Property Relations of Skin-Core Regions of Poly(p-phenylene terephthalamide) Single Fiber. *Scientific Reports*, **2019**, 9, 740	4.9	4
43	9,10-Dithio/oxo-Anthracene as a Novel Photosensitizer for Photoinitiator Systems in Photoresists. *Macromolecular Chemistry and Physics*, **2019**, 220, 1900152	2.6	4
42	A supramolecular polymeric photoinitiator with enhanced dispersion in photo-curing systems. *Polymer Chemistry*, **2020**, 11, 1885-1893	4.9	4
41	Design of Ordered Wrinkled Patterns with Dynamically Tuned Properties. *Physics Procedia*, **2013**, 46, 40-45		4
40	Polyetheramine (PEA): a versatile platform to tailor the properties of hydrogels via H-bonding interactions. *Polymer Chemistry*, **2017**, 8, 5367-5373	4.9	4
39	Preparation and properties of novel fluorinated polyimides based on 2,2?,6,6?-tetrafluorobenzidine. *Journal of Applied Polymer Science*, **1998**, 70, 1605-1609	2.9	4
38	Effect of N-phenylmaleimide on a novel chemically bonded polymerizable photoinitiator comprising the structure of planar N-phenylmaleimide and benzophenone for photopolymerization. *Polymer International*, **2007**, 56, 200-207	3.3	4
37	Deciphering, Designing, and Realizing Self-Folding Biomimetic Microstructures Using a Mass-Spring Model and Inkjet-Printed, Self-Folding Hydrogels. *Advanced Functional Materials*, **2020**, 30, 2003959	15.6	4
36	Realizing Dynamic Diffraction Gratings Based on Light-Direct Writing of Responsive 2D Ordered Patterns **2020**, 2, 1135-1141		4
35	Photo-Polymerization Induced Hierarchical Pattern via Self-Wrinkling. *Advanced Functional Materials*,2106754	15.6	4
34	Metamorphosis of three-dimensional kirigami-inspired reconfigurable and reprogrammable architected matter. *Materials Today Physics*, **2021**, 21, 100511	8	4
33	On-Demand Solar and Thermal Radiation Management Based on Switchable Interwoven Surfaces. *ACS Energy Letters*, **2022**, 7, 1758-1763	20.1	4
32	Inspired by elastomers: fabrication of hydrogels with tunable properties and re-shaping ability via photo-crosslinking at a macromolecular level. *Polymer Chemistry*, **2017**, 8, 1824-1832	4.9	3

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