Xuesong Jiang

List of Publications by Year in descending order

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105	2,657	186209	233338
papers	citations	28 h-index	45 g-index

105	105	105	2758
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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.	2.2	132
2	Dynamic wrinkling pattern exhibiting tunable fluorescence for anticounterfeiting applications. Nature Communications, 2020, 11, 1811.	5.8	128
3	Near-infrared lightâ€“responsive dynamic wrinkle patterns. Science Advances, 2018, 4, eaar5762.	4.7	115
4	Smart Patterned Surface with Dynamic Wrinkles. Accounts of Chemical Research, 2019, 52, 1025-1035.	7.6	95
5	A Nanoimprint Lithography Hybrid Photoresist Based on the Thiolâ€“Ene System. Advanced Functional Materials, 2011, 21, 2960-2967.	7.8	92
6	Reversible Dielsâ€“Alder Reaction To Control Wrinkle Patterns: From Dynamic Chemistry to Dynamic Patterns. Advanced Materials, 2016, 28, 9126-9132.	11.1	72
7	Understanding the Hostâ€“Guest Interaction Between Responsive Coreâ€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.	7.8	68
8	Polymeric Photoinitiator Containing In-Chain Thioxanthone and Coinitiator Amines. Macromolecular Rapid Communications, 2004, 25, 748-752.	2.0	67
9	â€œThiol-eneâ€•photo-cured hybrid materials based on POSS and renewable vegetable oil. Journal of Materials Chemistry, 2011, 21, 12753.	6.7	67
10	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.	6.7	63
11	Multistimuli Responsive Polymer Nanoparticles On the basis of the Amphiphilic Azobenzene-Contained Hyperbranched Poly(ether amine) (hPEA-AZO). Macromolecules, 2010, 43, 10457-10465.	2.2	62
12	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.	2.2	59
13	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.	6.7	56
14	Waterâ€Soluble Polymeric Thioxanthone Photoinitiator Containing Glucamine as Coinitiator. Macromolecular Chemistry and Physics, 2008, 209, 1593-1600.	1.1	49
15	Reversible Surface Dual-Pattern with Simultaneously Dynamic Wrinkled Topography and Fluorescence. ACS Macro Letters, 2018, 7, 540-545.	2.3	46
16	Reversible Surface Patterning by Dynamic Crosslink Gradients: Controlling Buckling in 2D. Advanced Materials, 2018, 30, e1803463.	11.1	45
17	Hierarchical 3D Patterns with Dynamic Wrinkles Produced by a Photocontrolled Dielsâ€“Alder Reaction on the Surface. Advanced Materials, 2020, 32, e1906712.	11.1	45
18	Versatile Functionalization of the Micropatterned Hydrogel of Hyperbranched Poly(ether amine) Based on â€œThiolâ€yneâ€•Chemistry. Advanced Functional Materials, 2014, 24, 1679-1686.	7.8	42

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19	Gas separation performance of supported carbon molecular sieve membranes based on soluble polybenzimidazole. Journal of Membrane Science, 2017, 533, 1-10.	4.1	41
20	A â€œthiol-eneâ€•photo-curable hybrid fluorinated resist for the high-performance replica mold of nanoimprint lithography (NIL). Journal of Materials Chemistry, 2012, 22, 2616-2623.	6.7	39
21	Multistimuliâ€responsive hyperbranched poly(ether amine)s. Journal of Polymer Science Part A, 2010, 48, 4252-4261.	2.5	37
22	Light-reversible hierarchical patterns by dynamic photo-dimerization induced wrinkles. Journal of Materials Chemistry C, 2017, 5, 8765-8773.	2.7	37
23	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.	5.2	34
24	Selective Adsorption and Separation through Molecular Filtration by Hyperbranched Poly(ether) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 54	1.6	33
25	Dynamic Structural Color from Wrinkled Thin Films. Advanced Optical Materials, 2020, 8, 2000234.	3.6	33
26	Multi-Responsive Wrinkling Patterns by the Photoswitchable Supramolecular Network. ACS Macro Letters, 2017, 6, 848-853.	2.3	32
27	Pattern Memory Surface (PMS) with Dynamic Wrinkles for Unclonable Anticounterfeiting. , 2019, 1, 77-82.		32
28	Poly(ether tertâ€amine): A novel family of multiresponsive polymer. Journal of Polymer Science Part A, 2009, 47, 1292-1297.	2.5	30
29	Regulating surface wrinkles using light. National Science Review, 2020, 7, 1247-1257.	4.6	30
30	Photo-crosslinked nanofibers of poly(ether amine) (PEA) for the ultrafast separation of dyes through molecular filtration. Polymer Chemistry, 2014, 5, 2027-2034.	1.9	29
31	Light-driven dynamic surface wrinkles for adaptive visible camouflage. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	29
32	Responsive Polymer Nanoparticles Formed by Poly(ether amine) Containing Coumarin Units and a Poly(ethylene oxide) Short Chain. Langmuir, 2009, 25, 9629-9632.	1.6	28
33	Hybrid Coreâ€“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.	2.2	27
34	Simultaneous Formation of a Self-Wrinkled Surface and Silver Nanoparticles on a Functional Photocuring Coating. Langmuir, 2015, 31, 11800-11808.	1.6	27
35	Interfacial Activity of Amineâ€Functionalized Polyhedral Oligomeric Silsesquioxanes (POSS): A Simple Strategy To Structure Liquids. Angewandte Chemie - International Edition, 2019, 58, 10142-10147.	7.2	27
36	Highly efficient, polymerizable, sulfur-containing photoinitiator comprising a structure of planarN-phenylmaleimide and benzophenone for photopolymerization. Journal of Polymer Science Part A, 2006, 44, 3738-3750.	2.5	26

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37	Multifunctional POSSâ€Based Nanoâ€Photoâ€Initiator for Overcoming the Oxygen Inhibition of Photoâ€Polymerization and for Creating Selfâ€Wrinkled Patterns. Advanced Materials Interfaces, 2014, 1, 1400385.	1.9	26
38	Hyperbranched poly(ether amine) (hPEA) as novel backbone for amphiphilic one-component type-II polymeric photoinitiators. Chinese Chemical Letters, 2018, 29, 451-455.	4.8	26
39	Dynamic Interpenetrating Polymer Network (IPN) Strategy for Multiresponsive Hierarchical Pattern of Reversible Wrinkle. ACS Applied Materials & Interfaces, 2019, 11, 15977-15985.	4.0	26
40	Multistimuli responsive amphiphilic graft poly(ether amine): Synthesis, characterization, and selfâ€assembly in aqueous solution. Journal of Polymer Science Part A, 2010, 48, 327-335.	2.5	25
41	Effect on Photopolymerization of the Structure of Amine Coinitiators Contained in Novel Polymeric Benzophenone Photoinitiators. Macromolecular Chemistry and Physics, 2006, 207, 1752-1763.	1.1	23
42	Responsive fluorescent core-crosslinked polymer particles based on the anthracene-containing hyperbranched poly(ether amine) (hPEAâ€“AN). Soft Matter, 2011, 7, 6853.	1.2	23
43	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.	5.2	22
44	In situ polymerization induced supramolecular hydrogels of chitosan and poly(acrylic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462 Td (acid	3.2	22
45	Copolymeric photoinitiators containing in-chain thioxanthone and coinitiator amine for photopolymerization. Journal of Applied Polymer Science, 2004, 94, 2395-2400.	1.3	21
46	Novel Polymerizable Sulfur-Containing Benzophenones as Free-Radical Photoinitiators for Photopolymerization. Macromolecular Chemistry and Physics, 2006, 207, 1080-1086.	1.1	21
47	Thiolâ€“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.	2.7	21
48	Photoreversible Resists for UV Nanoimprint Lithography (UV-NIL). ACS Applied Materials & Interfaces, 2010, 2, 2076-2082.	4.0	20
49	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.	6.7	20
50	A novel pH-responsive POSS-based nanoporous luminescent material derived from brominated distyrylpyridine and octavinylsilsesquioxane. RSC Advances, 2015, 5, 12800-12806.	1.7	19
51	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.	1.1	18
52	Photodynamic Pattern Memory Surfaces with Responsive Wrinkled and Fluorescent Patterns. Advanced Science, 2020, 7, 2002372.	5.6	18
53	A water-soluble supramolecular-structured photoinitiator between methylated Î²-cyclodextrin and 2,2-dimethoxy-2-phenylacetophenone. Journal of Applied Polymer Science, 2007, 105, 3819-3823.	1.3	17
54	Poly(Nâ€isopropylacrylamide) Brush Fabricated by Surfaceâ€Initiated Photopolymerization and its Response to Temperature. Macromolecular Chemistry and Physics, 2009, 210, 1876-1882.	1.1	17

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55	Photoâ€Polymerization Induced Hierarchical Pattern via Selfâ€Wrinkling. Advanced Functional Materials, 2021, 31, 2106754.	7.8	17
56	Polymeric vesicles with well-defined poly(methyl methacrylate) (PMMA) brushes via surface-initiated photopolymerization (SIPP). Polymer Chemistry, 2011, 2, 614-618.	1.9	16
57	Novel polymerizableN-aromatic maleimides as free radical initiators for photopolymerization. Polymer International, 2006, 55, 930-937.	1.6	15
58	Stimuli-responsive microgels formed by hyperbranched poly(ether amine) decorated with platinum nanoparticles. Soft Matter, 2011, 7, 8619.	1.2	15
59	One-pot approach to synthesize hyperbranched poly(thiolâ€“ether amine) (hPtEA) through sequential â€œthiolâ€“eneâ€•and â€œepoxyâ€“amineâ€•click reactions. Polymer Chemistry, 2015, 6, 6946-6954.	1.9	15
60	Selfâ€Assembly of Amphiphilic Anthraceneâ€Functionalized Î²â€Cyclodextrin (CDâ€AN) through Multiâ€Micelle Aggregation. Macromolecular Rapid Communications, 2016, 37, 998-1004.	2.0	15
61	A Near-Infrared-Triggered Dynamic Wrinkling Biointerface for Noninvasive Harvesting of Practical Cell Sheets. ACS Applied Materials & Interfaces, 2021, 13, 32790-32798.	4.0	15
62	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.	1.1	14
63	Amphiphilic Zwitterionic Poly(dimethylsiloxane) (PDMS)-Contained Poly(Ether amine) (Z-SiPEA) as the Responsive Polymeric Dispersant. ACS Applied Materials & Interfaces, 2011, 3, 1749-1756.	4.0	13
64	Micropatterns Fabricated by Photodimerizationâ€Induced Diffusion. Advanced Materials, 2021, 33, e2007699.	11.1	13
65	Polymeric Michler's ketone photoinitiator containing coinitiator amine. Polymer Engineering and Science, 2009, 49, 1608-1615.	1.5	12
66	Amphiphilic polymeric Michler's ketone (MK) photoinitiators (APMKs) containing PEO chain and coinitiator amine. Polymers for Advanced Technologies, 2011, 22, 598-604.	1.6	12
67	Light-Written Reversible 3D Fluorescence and Topography Dual-Pattern with Memory and Self-Healing Abilities. Research, 2019, 2019, 2389254.	2.8	12
68	ESR and kinetic study of a novel polymerizable photoinitiator comprising the structure ofN-phenylmaleimide and benzophenone for photopolymerization. Journal of Applied Polymer Science, 2006, 101, 2347-2354.	1.3	11
69	A hybrid resist hemispherical-pit array layer for light trapping in thin film silicon solar cells via UV nanoimprint lithography. Journal of Materials Chemistry C, 2014, 2, 6140-6147.	2.7	11
70	Interfacial Activity of Amineâ€Functionalized Polyhedral Oligomeric Silsesquioxanes (POSS): A Simple Strategy To Structure Liquids. Angewandte Chemie, 2019, 131, 10248-10253.	1.6	11
71	Realizing Dynamic Diffraction Gratings Based on Light-Direct Writing of Responsive 2D Ordered Patterns. , 2020, 2, 1135-1141.		11
72	Photoinitiation properties of heterocyclic hexaarylbiimidazoles with high UV-vis absorbance. Journal of Applied Polymer Science, 2007, 105, 2027-2035.	1.3	10

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73	Dynamic Surface Wrinkles for In Situ Light-Driven Dynamic Gratings. ACS Applied Materials & Interfaces, 2022, 14, 16949-16957.	4.0	10
74	Strain-ultrasensitive surface wrinkles for visual optical sensors. Materials Horizons, 2022, 9, 2233-2242.	6.4	10
75	Cinnamateâ€Functionalized Cage Silsesquioxanes as Photoreactive Nanobuilding Blocks. European Journal of Inorganic Chemistry, 2015, 2015, 99-103.	1.0	9
76	Polymerization-Induced Growth of Microprotuberance on the Photocuring Coating. Langmuir, 2017, 33, 2027-2032.	1.6	9
77	The Evolution of Self-Wrinkles in a Single-Layer Gradient Polymer Film Based on Viscoelasticity. Macromolecules, 2022, 55, 3563-3572.	2.2	9
78	Photoinitiated synthesis of polymer brush from dendritic photoinitiator electrostatic self-assembly. Chemical Communications, 2005, , 4927.	2.2	8
79	A supramolecular polymeric photoinitiator with enhanced dispersion in photo-curing systems. Polymer Chemistry, 2020, 11, 1885-1893.	1.9	8
80	Regulating the Interlayer Spacing of 2D Lamellar Polymeric Membranes via Molecular Engineering of 2D Nanosheets. Macromolecules, 2021, 54, 4423-4431.	2.2	7
81	Polybenzimidazoles (PBIs) Derived from Nonâ€Coplanar Dibenzoic Acid Containing Imidazole (IDBA): Synthesis, Characterization and Properties. Macromolecular Chemistry and Physics, 2009, 210, 1632-1639.	1.1	6
82	The Interaction Between Amphiphilic Polymer Materials and Guest Molecules: Selective Adsorption and Its Related Applications. Macromolecular Chemistry and Physics, 2014, 215, 2283-2294.	1.1	6
83	Toward Multifunctional Polymer Hybrid through Tunable Charge Transfer Interaction of Anthracene/Naphthalenediimide. Advanced Materials Interfaces, 2016, 3, 1600224.	1.9	6
84	Photoreversible Growth of Micropattern. Advanced Materials Interfaces, 2016, 3, 1600528.	1.9	6
85	9,10â€Dithio/oxoâ€Anthracene as a Novel Photosensitizer for Photoinitiator Systems in Photoresists. Macromolecular Chemistry and Physics, 2019, 220, 1900152.	1.1	6
86	Novel Photosensitizer and Methoxy Styryl Pyridines for Photoradical Initiator System. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2009, 22, 351-356.	0.1	5
87	Synthesis of stimuliâ€responsive starâ€like copolymer H20â€PNIPAmâ€râ€PEGMA via the ATRP copolymerization technique and its micellization in aqueous solution. Journal of Applied Polymer Science, 2010, 115, 1831-1840.	1.3	5
88	Multistimuli responsive micelles based on wellâ€defined amphiphilic comb poly(ether amine) (acPEA). Journal of Polymer Science Part A, 2010, 48, 3468-3475.	2.5	5
89	Light-Induced Programmable 2D Ordered Patterns Based on a Hyperbranched Poly(ether amine) (hPEA)-Functionalized Graphene Film. ACS Applied Materials & Interfaces, 2021, 13, 1704-1713.	4.0	5
90	Effect ofN-phenylmaleimide on a novel chemically bonded polymerizable photoinitiator comprising the structure of planarN-phenylmaleimide and benzophenone for photopolymerization. Polymer International, 2007, 56, 200-207.	1.6	4

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91	Thiol-yne Photo-curable Hybrid Resist: An Alternative for UV Nanoimprint Lithography (UV-NIL). Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2014, 27, 121-129.	0.1	4
92	Hyperbranched poly(ether amine) nanomicelles as nanoreactors for the unexpected ultrafast photolysis of fluorescein dyes. Polymer Chemistry, 2018, 9, 2727-2732.	1.9	4
93	Multi-responsive wholly aromatic sulfonated polyamide ultra-sensitive to pH value. Science China Chemistry, 2012, 55, 2503-2506.	4.2	3
94	Photoâ€Induced Programmable Morphological Transition of the Hybrid Coassembles. Macromolecular Chemistry and Physics, 2018, 219, 1800054.	1.1	3
95	Multifunctional Polymer Sponge with Molecule Recognition: Facile Mechanic Induced Separation. Langmuir, 2019, 35, 14920-14928.	1.6	3
96	Long noncoding RNA-dependent regulation of vascular smooth muscle cell proliferation and migration in hypertension. International Journal of Biochemistry and Cell Biology, 2020, 118, 105653.	1.2	3
97	Photoâ€Oxidationâ€Controlled Surface Pattern with Responsive Wrinkled Topography and Fluorescence. Chemistry - A European Journal, 2021, 27, 5810-5816.	1.7	3
98	Aminoesterenamide Achieved by Threeâ€Component Reaction Heading toward Tailoring Covalent Adaptable Network with Great Freedom. Macromolecular Rapid Communications, 2021, 42, e2100394.	2.0	3
99	Wavelengthâ€Selective Photoâ€Cycloadditions of Styrylâ€Anthracene. Macromolecular Rapid Communications, 2022, 43, e2200055.	2.0	3
100	Hyperbranched Poly(ether amine)@Poly(vinylidene fluoride) Hybrid Membrane with Oriented Nanostructures for Fast Molecular Filtration. Langmuir, 2018, 34, 3787-3796.	1.6	2
101	Ultralarge Nanosheets Fabricated by the Hierarchical Selfâ€Assembly of Porphyrinâ€Ended Hyperbranched Poly (ether amine) (TPPâ€“hPEA). Macromolecular Rapid Communications, 2018, 39, e1800042.	2.0	1
102	Hybrid Membranes of hPEA@PVDF for Molecular Recognition and Separation of Phenols and Anilines. Advanced Materials Technologies, 2019, 4, 1900529.	3.0	1
103	Fabrication of the amphiphilic hyperbranched poly(ether amine)@graphene (hPEAâ€AN@G) hybrid assemblies by ball milling. Polymer International, 0, , .	1.6	1
104	Photoâ€Curing Visâ€IR Hybrid Fresnel Lenses with High Refractive Index. Macromolecular Chemistry and Physics, 0, , 2100311.	1.1	1
105	Application of decarboxylation reactions for improvement of dielectric properties of a methacrylic polymer. RSC Advances, 2021, 11, 20926-20932.	1.7	1