

Yan Ji

List of Publications by Year in descending order

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66
papers

6,048
citations

81743

39
h-index

91712

69
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70
all docs

70
docs citations

70
times ranked

5554
citing authors

#	ARTICLE	IF	CITATIONS
1	Mouldable liquid-crystalline elastomer actuators with exchangeable covalent bonds. <i>Nature Materials</i> , 2014, 13, 36-41.	13.3	670
2	Biocompatible polydopamine fluorescent organic nanoparticles: facile preparation and cell imaging. <i>Nanoscale</i> , 2012, 4, 5581.	2.8	476
3	Making and Remaking Dynamic 3D Structures by Shining Light on Flat Liquid Crystalline Vitrimer Films without a Mold. <i>Journal of the American Chemical Society</i> , 2016, 138, 2118-2121.	6.6	334
4	Carbon nanotube-vitrimer composite for facile and efficient photo-welding of epoxy. <i>Chemical Science</i> , 2014, 5, 3486-3492.	3.7	258
5	A durable monolithic polymer foam for efficient solar steam generation. <i>Chemical Science</i> , 2018, 9, 623-628.	3.7	235
6	Regional Shape Control of Strategically Assembled Multishape Memory Vitrimers. <i>Advanced Materials</i> , 2016, 28, 156-160.	11.1	213
7	Multi-stimuli responsive and multi-functional oligoaniline-modified vitrimers. <i>Chemical Science</i> , 2017, 8, 724-733.	3.7	178
8	Functional epoxy vitrimers and composites. <i>Progress in Materials Science</i> , 2021, 120, 100710.	16.0	178
9	Carbon-dots derived from nanodiamond: Photoluminescence tunable nanoparticles for cell imaging. <i>Journal of Colloid and Interface Science</i> , 2013, 397, 39-44.	5.0	171
10	Cellular responses of aniline oligomers: a preliminary study. <i>Toxicology Research</i> , 2012, 1, 201.	0.9	166
11	Dispersion and Alignment of Carbon Nanotubes in Liquid Crystalline Polymers and Elastomers. <i>Advanced Materials</i> , 2010, 22, 3436-3440.	11.1	162
12	PEGylation and polyPEGylation of nanodiamond. <i>Polymer</i> , 2012, 53, 3178-3184.	1.8	141
13	Detecting topology freezing transition temperature of vitrimers by AIE luminogens. <i>Nature Communications</i> , 2019, 10, 3165.	5.8	136
14	Untethered Recyclable Tubular Actuators with Versatile Locomotion for Soft Continuum Robots. <i>Advanced Materials</i> , 2018, 30, e1801103.	11.1	133
15	Polydopamine coated shape memory polymer: enabling light triggered shape recovery, light controlled shape reprogramming and surface functionalization. <i>Chemical Science</i> , 2016, 7, 4741-4747.	3.7	128
16	Photo-oxidative enhancement of polymeric molecular sieve membranes. <i>Nature Communications</i> , 2013, 4, 1918.	5.8	117
17	Solvent-assisted programming of flat polymer sheets into reconfigurable and self-healing 3D structures. <i>Nature Communications</i> , 2018, 9, 1906.	5.8	108
18	Seamless multimaterial 3D liquid-crystalline elastomer actuators for next-generation entirely soft robots. <i>Science Advances</i> , 2020, 6, eaay8606.	4.7	108

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19	PolyPEGylated nanodiamond for intracellular delivery of a chemotherapeutic drug. <i>Polymer Chemistry</i> , 2012, 3, 2716.	1.9	105
20	Carbon-nanotube sensitized nematic elastomer composites for IR-visible photo-actuation. <i>Soft Matter</i> , 2012, 8, 1570-1574.	1.2	104
21	Liquid-Crystalline Soft Actuators with Switchable Thermal Reprogrammability. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4778-4784.	7.2	102
22	Polydopamine nanoparticles doped in liquid crystal elastomers for producing dynamic 3D structures. <i>Journal of Materials Chemistry A</i> , 2017, 5, 6740-6746.	5.2	98
23	Reprocessable Thermoset Soft Actuators. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 17474-17479.	7.2	90
24	Fluorescence and Aggregation Behavior of Poly(amidoamine) Dendrimers Peripherally Modified with Aromatic Chromophores: The Effect of Dendritic Architectures. <i>Journal of the American Chemical Society</i> , 2004, 126, 15180-15194.	6.6	89
25	Durable liquid-crystalline vitrimer actuators. <i>Chemical Science</i> , 2019, 10, 3025-3030.	3.7	82
26	Size tunable fluorescent nano-graphite oxides: preparation and cell imaging applications. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 19013.	1.3	80
27	Combining mussel-inspired chemistry and the Michael addition reaction to disperse carbon nanotubes. <i>RSC Advances</i> , 2012, 2, 12153.	1.7	79
28	A Dendron Based on Natural Amino Acids: Synthesis and Behavior as an Organogelator and Lyotropic Liquid Crystal. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 6025-6029.	7.2	77
29	Single-mode laser tuning from cholesteric elastomers using a notch-band-gap configuration. <i>Optics Express</i> , 2010, 18, 575.	1.7	72
30	Nanoparticle-Liquid Crystalline Elastomer Composites. <i>Polymers</i> , 2012, 4, 316-340.	2.0	66
31	Electricity-Triggered Self-Healing of Conductive and Thermostable Vitrimer Enabled by Paving Aligned Carbon Nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 14315-14322.	4.0	60
32	Photoreversible dendritic organogel. <i>Chemical Communications</i> , 2007, , 4233.	2.2	58
33	Locally controllable magnetic soft actuators with reprogrammable contraction-derived motions. <i>Science Advances</i> , 2022, 8, .	4.7	57
34	Dissolving and Aligning Carbon Nanotubes in Thermotropic Liquid Crystals. <i>Langmuir</i> , 2011, 27, 13254-13260.	1.6	55
35	Organogels and Liquid Crystalline Properties of Amino Acid-Based Dendrons: A Systematic Study on Structure-Property Relationship. <i>Chemistry of Materials</i> , 2012, 24, 71-80.	3.2	55
36	Self-Assembly of Amino-Acid-Based Dendrons: Organogels and Lyotropic and Thermotropic Liquid Crystals. <i>Chemistry of Materials</i> , 2008, 20, 4173-4175.	3.2	54

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37	Biocompatibility evaluation of aniline oligomers with different end-functional groups. <i>Toxicology Research</i> , 2013, 2, 427.	0.9	52
38	Polysiloxane Surfactants for the Dispersion of Carbon Nanotubes in Nonpolar Organic Solvents. <i>Langmuir</i> , 2009, 25, 12325-12331.	1.6	49
39	Effect of crosslinking on the photonic bandgap in deformable cholesteric elastomers. <i>Optics Express</i> , 2008, 16, 5320.	1.7	41
40	Enabling the sunlight driven response of thermally induced shape memory polymers by rewritable CH ₃ NH ₃ Pb ₃ perovskite coating. <i>Journal of Materials Chemistry A</i> , 2017, 5, 7285-7290.	5.2	39
41	Polymer actuators based on covalent adaptable networks. <i>Polymer Chemistry</i> , 2020, 11, 5297-5320.	1.9	39
42	Vitrimer-based soft actuators with multiple responsiveness and self-healing ability triggered by multiple stimuli. <i>Matter</i> , 2021, 4, 3354-3365.	5.0	38
43	Vitrification and plastic flow in transient elastomer networks. <i>Polymer</i> , 2016, 95, 45-51.	1.8	37
44	Photoresponsive organogels: an amino acid-based dendron functionalized with p-nitrocinnamate. <i>Tetrahedron</i> , 2009, 65, 3496-3501.	1.0	36
45	Photo-responsive liquid crystalline vitrimer containing oligoanilines. <i>Chinese Chemical Letters</i> , 2017, 28, 2139-2142.	4.8	34
46	Supramolecular Self-Assembly of Dimeric Dendrons with Different Aliphatic Spacers. <i>Chemistry of Materials</i> , 2009, 21, 456-462.	3.2	33
47	Preparation of Monodisperse Platinum Nanocrystal Core~Poly(amidoamine) (PAMAM) Dendrimer Shell Structures as Monolayer Films. <i>Journal of Physical Chemistry B</i> , 2004, 108, 1176-1178.	1.2	30
48	Harnessing the Day~Night Rhythm of Humidity and Sunlight into Mechanical Work Using Recyclable and Reprogrammable Soft Actuators. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 29290-29297.	4.0	28
49	Glycine and l-glutamic acid-based dendritic gelators. <i>Tetrahedron</i> , 2007, 63, 8794-8800.	1.0	24
50	Self-healing anti-corrosion coatings based on polymers of intrinsic microporosity for the protection of aluminum alloy. <i>RSC Advances</i> , 2015, 5, 104451-104457.	1.7	24
51	Gold Nanospheres Dispersed Light Responsive Epoxy Vitrimers. <i>Polymers</i> , 2018, 10, 65.	2.0	24
52	Reprocessable Thermoset Soft Actuators. <i>Angewandte Chemie</i> , 2019, 131, 17635-17640.	1.6	23
53	A novel aluminum-carbon nanotubes nanocomposite with doubled strength and preserved electrical conductivity. <i>Nano Research</i> , 2021, 14, 2776-2782.	5.8	21
54	Reprogrammable 3D Liquid~Crystalline Actuators with Precisely Controllable Stepwise Actuation. <i>Advanced Intelligent Systems</i> , 2021, 3, 2000249.	3.3	18

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55	Poly(amidoamine) dendrimers with phenyl shells: fluorescence and aggregation behavior. <i>Polymer</i> , 2004, 45, 8395-8402.	1.8	17
56	Self-assembly of a new class of amphiphilic poly(amidoamine) dendrimers and their electrochemical properties. <i>Journal of Polymer Science Part A</i> , 2005, 43, 5512-5519.	2.5	17
57	A magnetic solder for assembling bulk covalent adaptable network blocks. <i>Chemical Science</i> , 2020, 11, 7694-7700.	3.7	15
58	Liquidâ€Crystalline Soft Actuators with Switchable Thermal Reprogrammability. <i>Angewandte Chemie</i> , 2020, 132, 4808-4814.	1.6	14
59	Self-assembly and supramolecular transition of poly(amidoamine) dendrons focally modified with aromatic chromophores. <i>Journal of Colloid and Interface Science</i> , 2007, 314, 289-296.	5.0	12
60	Poly(amidoamine) Dendrimers Bearing Electron-Donating Chromophores: Fluorescence and Electrochemical Properties. <i>Polymer Bulletin</i> , 2006, 56, 63-74.	1.7	10
61	Hierarchically Porous Chitosanâ€PEGâ€Silica Biohybrid: Synthesis and Rapid Cell Adsorption. <i>Advanced Healthcare Materials</i> , 2013, 2, 302-305.	3.9	10
62	Liquid Crystalline Network Composites Reinforced by Silica Nanoparticles. <i>Materials</i> , 2014, 7, 5356-5365.	1.3	8
63	Fast and reversible microscale formation of columns in carbon nanotube suspensions. <i>Soft Matter</i> , 2013, 9, 235-240.	1.2	2
64	The Cu/Fe magnetic yoke with novel interface and excellent mechanical properties by friction stir welding. <i>Science and Technology of Welding and Joining</i> , 2022, 27, 339-352.	1.5	2
65	Carbon nanotubes dispersed in liquid crystal elastomers. <i>Series in Sof Condensed Matter</i> , 2016, , 631-655.	0.1	1
66	SYNTHESIS AND CHARACTERIZATION OF PEPTIDE DENDRONS WITH GLY-GLU AS BUILDING BLOCKS. <i>Acta Polymerica Sinica</i> , 2010, 006, 712-716.	0.0	0