

# Xin-Ru Jia

## List of Publications by Year in descending order

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78  
papers

3,584  
citations

147786

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82  
docs citations

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times ranked

3693  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Novel Mechanochromic and Photochromic Polymer Film: When Rhodamine Joins Polyurethane. <i>Advanced Materials</i> , 2015, 27, 6469-6474.	21.0	252
2	Mechanically Induced Multicolor Change of Luminescent Materials. <i>ChemPhysChem</i> , 2015, 16, 1811-1828.	2.1	220
3	Mechanically Induced Multicolor Switching Based on a Single Organic Molecule. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 12268-12272.	13.8	201
4	A Mechanochromic Single Crystal: Turning Two Color Changes into a Tricolored Switch. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 519-522.	13.8	196
5	Reversible Tuning Luminescent Color and Emission Intensity: A Dipeptide-Based Light-Emitting Material. <i>Advanced Materials</i> , 2012, 24, 1255-1261.	21.0	166
6	BODIPY-based conjugated porous polymers for highly efficient volatile iodine capture. <i>Journal of Materials Chemistry A</i> , 2017, 5, 6622-6629.	10.3	159
7	A Single Crystal with Multiple Functions of Optical Waveguide, Aggregation-Induced Emission, and Mechanochromism. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 8910-8918.	8.0	144
8	A Dipeptide-Based Multicolored-Switching Luminescent Solid Material: When Molecular Assemblies Meet Mechanochemical Reaction. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 6398-6401.	13.8	122
9	Crystal-State Photochromism and Dual-Mode Mechanochromism of an Organic Molecule with Fluorescence, Room-Temperature Phosphorescence, and Delayed Fluorescence. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 16445-16450.	13.8	96
10	A Supramolecule-Triggered Mechanochromic Switch of Cyclodextrin-Jacketed Rhodamine and Spiropyran Derivatives. <i>Advanced Functional Materials</i> , 2016, 26, 353-364.	14.9	81
11	More than Carbazole Derivatives Activate Room Temperature Ultralong Organic Phosphorescence of Benzoindole Derivatives. <i>Advanced Materials</i> , 2022, 34, e2200544.	21.0	80
12	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.	13.8	77
13	Mechanochromic luminescent property of a polypeptide-based dendron. <i>Chemical Communications</i> , 2011, 47, 6078.	4.1	70
14	Fine-tuning the mechanofluorochromic properties of benzothiadiazole-cored cyano-substituted diphenylethene derivatives through D <sup>π</sup> A effect. <i>Journal of Materials Chemistry C</i> , 2014, 2, 8932-8938.	5.5	69
15	An Enzyme-Responsive Nanogel Carrier Based on PAMAM Dendrimers for Drug Delivery. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 19899-19906.	8.0	68
16	Glycine-glutamic-acid-based organogelators and their fluoride anion responsive properties. <i>Journal of Materials Chemistry</i> , 2009, 19, 5648.	6.7	63
17	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.	6.7	55
18	Self-Assembly of Amino-Acid-Based Dendrons: Organogels and Lyotropic and Thermotropic Liquid Crystals. <i>Chemistry of Materials</i> , 2008, 20, 4173-4175.	6.7	54

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19	An ESIPT-based fluorescent switch with AIEE, solvatochromism, mechanochromism and photochromism. <i>Materials Chemistry Frontiers</i> , 2019, 3, 620-625.	5.9	51
20	A multi-state fluorescent switch with multifunction of AIE, methanol-responsiveness, photochromism and mechanochromism. <i>Journal of Materials Chemistry C</i> , 2018, 6, 10250-10255.	5.5	48
21	Robust White-Light Emitting and Multi-Responsive Luminescence of a Dual-Mode Phosphorescence Molecule. <i>Advanced Optical Materials</i> , 2021, 9, 2001685.	7.3	44
22	Photoresponsive nanocarriers based on PAMAM dendrimers with a <i>p</i> -nitrobenzyl shell. <i>Journal of Polymer Science Part A</i> , 2010, 48, 551-557.	2.3	41
23	Effect of alkyl length dependent crystallinity for the mechanofluorochromic feature of alkyl phenothiazinyl tetraphenylethenyl acrylonitrile derivatives. <i>Journal of Materials Chemistry C</i> , 2016, 4, 4786-4791.	5.5	41
24	Enhanced blood-brain-barrier penetrability and tumor-targeting efficiency by peptide-functionalized poly(amidoamine) dendrimer for the therapy of gliomas. <i>Nanotheranostics</i> , 2019, 3, 311-330.	5.2	39
25	Fabrication of Covalently Attached Ultrathin Films Based on Dendrimers via H-Bonding Attraction and Subsequent UV Irradiation. <i>Macromolecular Rapid Communications</i> , 2001, 22, 583-586.	3.9	38
26	Synthesis and Thermo-/pH- Dual Responsive Properties of Poly(amidoamine) Dendronized Poly(2-hydroxyethyl) Methacrylate. <i>Macromolecules</i> , 2010, 43, 4314-4323.	4.8	36
27	An AIE molecule featuring changeable triplet emission between phosphorescence and delayed fluorescence by an external force. <i>Materials Chemistry Frontiers</i> , 2019, 3, 2151-2156.	5.9	35
28	Supramolecular Self-Assembly of Dimeric Dendrons with Different Aliphatic Spacers. <i>Chemistry of Materials</i> , 2009, 21, 456-462.	6.7	33
29	Reaction Cascades in Polymer Mechanochemistry. <i>Materials Chemistry Frontiers</i> , 2020, 4, 3115-3129.	5.9	33
30	Dendrimer-Based Demulsifiers for Polymer Flooding Oil-in-Water Emulsions. <i>Energy &amp; Fuels</i> , 2017, 31, 5395-5401.	5.1	32
31	A poly(amidoamine) dendrimer-based drug carrier for delivering DOX to gliomas cells. <i>RSC Advances</i> , 2017, 7, 15475-15481.	3.6	31
32	Two novel rhodamine-based molecules with different mechanochromic and photochromic properties in solid state. <i>Journal of Materials Chemistry C</i> , 2018, 6, 2270-2274.	5.5	31
33	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.	2.6	30
34	Controllable multicolor switching of oligopeptide-based mechanochromic molecules: from gel phase to solid powder. <i>Journal of Materials Chemistry C</i> , 2015, 3, 3399-3405.	5.5	30
35	Mechanically controlled FRET to achieve an independent three color switch. <i>Journal of Materials Chemistry C</i> , 2016, 4, 10914-10918.	5.5	30
36	Multiresponsive Tetra-Arylethene-Based Fluorescent Switch with Multicolored Changes: Single-Crystal Photochromism, Mechanochromism, and Acidochromism. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 40986-40994.	8.0	30

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37	Self-assembly ultrathin films based on dendrimers. <i>Chemical Communications</i> , 2000, , 511-512.	4.1	29
38	Photoresponsive Dendronized Copolymers of Styrene and Maleic Anhydride Pendant with Poly(amidoamine) Dendrons as Side Groups. <i>Macromolecules</i> , 2013, 46, 1723-1731.	4.8	28
39	Dendrimer-based multilayer nanocarrier for potential synergistic paclitaxel&doxorubicin combination drug delivery. <i>RSC Advances</i> , 2014, 4, 3643-3652.	3.6	27
40	Schiff base-bridged TPE-rhodamine dyad: facile synthesis, distinct response to shearing and hydrostatic pressure, and sequential multicolored acidochromism. <i>Journal of Materials Chemistry C</i> , 2019, 7, 8398-8403.	5.5	27
41	Cinnamoyl shell-modified poly(amidoamine) dendrimers. <i>Journal of Polymer Science Part A</i> , 2000, 38, 4147-4153.	2.3	26
42	Pressure induced the largest emission wavelength change in a single crystal. <i>Dyes and Pigments</i> , 2019, 162, 136-144.	3.7	26
43	Mechanically induced color change based on the chromophores of anthracene and rhodamine 6G. <i>Tetrahedron Letters</i> , 2015, 56, 393-396.	1.4	25
44	Crystal&State Photochromism and Dual&Mode Mechanochromism of an Organic Molecule with Fluorescence, Room&Temperature Phosphorescence, and Delayed Fluorescence. <i>Angewandte Chemie</i> , 2019, 131, 16597-16602.	2.0	25
45	A poly(amidoamine) dendrimer-based nanocarrier conjugated with Angiopep-2 for dual-targeting function in treating glioma cells. <i>Polymer Chemistry</i> , 2016, 7, 715-721.	3.9	24
46	Polymorphism of Amino Acid&Based Dendrons: From Organogels to Microcrystals. <i>Chemistry - an Asian Journal</i> , 2011, 6, 1163-1170.	3.3	23
47	A Mechanochromic and Photochromic Dual-Responsive Co-assembly with Multicolored Switch: A Peptide-Based Dendron Strategy. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 34475-34484.	8.0	23
48	Carbazole&benzoinole-based purely organic phosphors: a comprehensive phosphorescence mechanism, tunable lifetime and an advanced encryption system. <i>Journal of Materials Chemistry C</i> , 2021, 9, 14294-14302.	5.5	23
49	The mechanically induced color change from UV to visible region. <i>Tetrahedron Letters</i> , 2013, 54, 6504-6506.	1.4	21
50	A D-A-D&TM type organic molecule with persistent phosphorescence exhibiting dual-mode mechanochromism. <i>Dyes and Pigments</i> , 2020, 173, 107963.	3.7	21
51	Pressure-induced emission band separation of the hybridized local and charge transfer excited state in a TPE-based crystal. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 13249-13254.	2.8	19
52	Synthesis and electroactive properties of poly(amidoamine) dendrimers with an aniline pentamer shell. <i>Journal of Materials Chemistry</i> , 2011, 21, 4581.	6.7	18
53	Effects of glutamic acid shelled PAMAM dendrimers on the crystallization of calcium phosphate in diffusion systems. <i>Polymer Bulletin</i> , 2011, 66, 119-132.	3.3	18
54	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.	2.3	17

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55	Room-temperature white and color-tunable afterglow by manipulating multi-mode triplet emissions. <i>Journal of Materials Chemistry C</i> , 2021, 9, 3257-3263.	5.5	17
56	Dibenzo[a,c]phenazine-phenothiazine dyad: AIEE, polymorphism, distinctive mechanochromism, high sensitivity to pressure. <i>Dyes and Pigments</i> , 2020, 181, 108575.	3.7	16
57	Mechanochromic and photochromic dual-responsive properties of an amino acid based molecule in polymorphic phase. <i>RSC Advances</i> , 2014, 4, 20239.	3.6	15
58	A high stiffness bio-inspired hydrogel from the combination of a poly(amido amine) dendrimer with DOPA. <i>Chemical Communications</i> , 2015, 51, 16786-16789.	4.1	14
59	Peptide-conjugated PEGylated PAMAM as a highly affinitive nanocarrier towards HER2-overexpressing cancer cells. <i>RSC Advances</i> , 2016, 6, 107337-107343.	3.6	14
60	Photochromism of aminobenzopyrano-xanthene with different fluorescent behavior in solution and the crystal state. <i>Journal of Materials Chemistry C</i> , 2019, 7, 275-280.	5.5	14
61	Amidoamine dendron-based co-adsorbents: improved performance in dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 14524.	10.3	13
62	Fabrication of Ag nanoparticle-encapsulating multilayer films based on PAMAM dendrimers with covalent interlayer linkages. <i>Journal of Applied Polymer Science</i> , 2003, 89, 1515-1519.	2.6	12
63	A facile route to prepare dimeric BODIPY-based porous organic polymers using FeCl <sub>3</sub> . <i>New Journal of Chemistry</i> , 2017, 41, 5263-5266.	2.8	12
64	Regulating force-resistance and acid-responsiveness of pure organics with persistent phosphorescence via simple isomerization. <i>Journal of Materials Chemistry C</i> , 2021, 9, 5227-5233.	5.5	12
65	Self-immolative nanoparticles triggered by hydrogen peroxide and pH. <i>Journal of Polymer Science Part A</i> , 2014, 52, 1962-1969.	2.3	11
66	The Demulsification Properties of Cationic Hyperbranched Polyamidoamines for Polymer Flooding Emulsions and Microemulsions. <i>Processes</i> , 2020, 8, 176.	2.8	11
67	Star-shaped quaternary ammonium compounds with terminal amino groups for rapidly breaking oil-in-water emulsions. <i>Fuel</i> , 2021, 304, 121366.	6.4	11
68	Poly(amidoamine) Dendrimers Bearing Electron-Donating Chromophores: Fluorescence and Electrochemical Properties. <i>Polymer Bulletin</i> , 2006, 56, 63-74.	3.3	10
69	Mimic of Protein: A Highly pH-Sensitive and Thermoresponsive Polyampholyte. <i>Macromolecular Chemistry and Physics</i> , 2011, 212, 2268-2274.	2.2	10
70	Mechanical activation of a dithioester derivative-based retro RAFT-HDA reaction. <i>Polymer Chemistry</i> , 2014, 5, 6893-6897.	3.9	10
71	Multicolored fluorescence variation of a new carbazole-based AIEE molecule by external stimuli. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 19195-19201.	2.8	7
72	Doped OD Cs <sub>4</sub> PbCl <sub>6</sub> single crystals featuring full-visible-region colorful luminescence. <i>Journal of Materials Chemistry C</i> , 0, , .	5.5	7

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73	Controlled radical double ring-opening polymerization of 2-methylene-1,4,6-trioxaspiro[4,4]nonane. <i>Polymer International</i> , 2000, 49, 1496-1499.	3.1	6
74	Selective Expression of a Carbazole-Phenothiazine Derivative Leads to Dual-mode AIEE, TADF and Distinctive Mechanochromism. <i>ChemPhysChem</i> , 2021, 22, 2093-2098.	2.1	6
75	Photophysical and self-assembly behavior of poly(amidoamine) dendrons with chromophore as scaffold: The effect of dendritic architecture. <i>Journal of Polymer Science Part A</i> , 2008, 46, 4584-4593.	2.3	5
76	Synthesis and gelation property of amino acids-based dendronised oligomers. <i>Supramolecular Chemistry</i> , 2014, 26, 435-441.	1.2	1
77	Crystal-state quad-mode triplet emissions of D-A-A <sup>TM</sup> -D type phosphors with AIEE and visible-light-excited persistent phosphorescence. <i>Dyes and Pigments</i> , 2021, 188, 109178.	3.7	1
78	Mechanochromic Switches: A Supramolecule-Triggered Mechanochromic Switch of Cyclodextrin-Jacketed Rhodamine and Spiropyran Derivatives ( <i>Adv. Funct. Mater.</i> 3/2016). <i>Advanced Functional Materials</i> , 2016, 26, 467-467.	14.9	0