

Li Yang

List of Publications by Year in descending order

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42
papers

1,122
citations

430442

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h-index

395343

33
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times ranked

1259
citing authors

#	ARTICLE	IF	CITATIONS
1	Explosives in the Cage: Metal-Organic Frameworks for High-Energy Materials Sensing and Desensitization. <i>Advanced Materials</i> , 2017, 29, 1701898.	11.1	127
2	High-Performance pH-Switchable Supramolecular Thermosets via Cation- π Interactions. <i>Advanced Materials</i> , 2018, 30, 1704234.	11.1	105
3	Phosphoric acid-doped poly(ether sulfone benzotriazole) for high-temperature proton exchange membrane fuel cell applications. <i>Journal of Membrane Science</i> , 2018, 549, 23-27.	4.1	79
4	1,1'-Binaphthyl-based imidazolium chemosensors for highly selective recognition of tryptophan in aqueous solutions. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 339-348.	1.5	68
5	Rational design of a novel indole-based microporous organic polymer: enhanced carbon dioxide uptake via local dipole- π interactions. <i>Journal of Materials Chemistry A</i> , 2016, 4, 2517-2523.	5.2	65
6	An indole-based aerogel for enhanced removal of heavy metals from water <i>via</i> the synergistic effects of complexation and cation- π interactions. <i>Journal of Materials Chemistry A</i> , 2019, 7, 531-539.	5.2	51
7	A bioinspired strategy towards super-adsorbent hydrogel spheres <i>via</i> self-sacrificing micro-reactors for robust wastewater remediation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 21386-21403.	5.2	46
8	Facile synthesis of new coumarin-based colorimetric and fluorescent chemosensors: Highly efficient and selective detection of Pd ²⁺ in aqueous solutions. <i>Sensors and Actuators B: Chemical</i> , 2017, 240, 212-219.	4.0	43
9	An indole-based conjugated microporous polymer: a new and stable lithium storage anode with high capacity and long life induced by cation- π interactions and a N-rich aromatic structure. <i>Journal of Materials Chemistry A</i> , 2018, 6, 18794-18798.	5.2	43
10	High and Selective Carbon Dioxide Capture in Nitrogen-Containing Aerogels via Synergistic Effects of Electrostatic In-Plane and Dispersive π - π -Stacking Interactions. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 15213-15218.	4.0	35
11	An indole-derived porous organic polymer for the efficient visual colorimetric capture of iodine in aqueous media <i>via</i> the synergistic effects of cation- π and electrostatic forces. <i>Chemical Communications</i> , 2020, 56, 1401-1404.	2.2	30
12	Rational design of a fluorescent poly(N-aryleneindole ether sulfone) switch by cation- π interactions. <i>Polymer Chemistry</i> , 2015, 6, 697-702.	1.9	26
13	A nitrogen-rich, azaindole-based microporous organic network: synergistic effect of local dipole- π and dipole-quadrupole interactions on carbon dioxide uptake. <i>Polymer Chemistry</i> , 2016, 7, 5768-5772.	1.9	25
14	A recyclable hydroxyl functionalized polyindole hydrogel for sodium hydroxide extraction <i>via</i> the synergistic effect of cation- π interactions and hydrogen bonding. <i>Chemical Communications</i> , 2018, 54, 9785-9788.	2.2	24
15	Rational design of a boron-dipyrromethene-based fluorescent probe for detecting Pd ²⁺ sensitively and selectively in aqueous media. <i>Analyst</i> , 2019, 144, 1260-1264.	1.7	23
16	Facile synthesis of heat-resistant and photoluminescent poly(N-aryleneindole ether)s via catalyst-free C ₁₂ N/C ₁₂ O coupling reaction. <i>Journal of Polymer Science Part A</i> , 2014, 52, 313-320.	2.5	22
17	Metal-coordination crosslinked N-polyindoles as recyclable high-performance thermosets and nondestructive detection for their tensile strength and glass transition temperature. <i>Chemical Communications</i> , 2018, 54, 2906-2909.	2.2	21
18	Intermolecular channel expansion induced by cation- π interactions to enhance lithium storage in a crosslinked π -conjugated organic anode. <i>Journal of Power Sources</i> , 2020, 449, 227551.	4.0	21

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19	Recyclable Cu(II)-Coordination Crosslinked Poly(benzimidazolyl pyridine)s as High-Performance Polymers. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1700573.	2.0	20
20	Cation- π induced lithium-doped conjugated microporous polymer with remarkable hydrogen storage performance. <i>Chemical Communications</i> , 2019, 55, 11227-11230.	2.2	18
21	An indole-based smart aerogel for simultaneous visual detection and removal of trinitrotoluene in water via synergistic effect of dipole- π and donor-acceptor interactions. <i>Chemical Engineering Journal</i> , 2020, 384, 123358.	6.6	18
22	Force-Reversible and Energetic Indole-Mg-Indole Cation- π Interaction for Designing Toughened and Multifunctional High-Performance Thermosets. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	18
23	Construction of triphenylamine functional phthalazinone-based covalent triazine frameworks for effective CO ₂ capture. <i>Polymer</i> , 2018, 151, 65-74.	1.8	17
24	Enhanced carbon dioxide capture in an indole-based microporous organic polymer via synergistic effects of indoles and their adjacent carbonyl groups. <i>Polymer Chemistry</i> , 2018, 9, 4455-4459.	1.9	17
25	Hydrogen bond cross-linked sulfonated poly(imino ether ether ketone) (PIEEK) for fuel cell membranes. <i>Journal of Power Sources</i> , 2015, 282, 401-408.	4.0	16
26	A recyclable indole-based polymer for trinitrotoluene adsorption via the synergistic effect of dipole- π and donor-acceptor interactions. <i>Polymer Chemistry</i> , 2019, 10, 4632-4636.	1.9	16
27	Force-reversible chemical reaction at ambient temperature for designing toughened dynamic covalent polymer networks. <i>Nature Communications</i> , 2022, 13, .	5.8	16
28	Recyclable Crosslinked High-Performance Polymers via Adjusting Intermolecular Cation- π Interactions and the Visual Detection of Tensile Strength and Glass Transition Temperature. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1800031.	2.0	15
29	Unprecedented toughening high-performance polyhexahydrotriazines constructed by incorporating point-face cation- π interactions in covalently crosslinked networks and the visual detection of tensile strength. <i>Chemical Communications</i> , 2020, 56, 1054-1057.	2.2	15
30	Synthesis of a metal-coordinated N-substituted polybenzimidazole pyridine sulfone and method for the nondestructive analysis of thermal stability. <i>High Performance Polymers</i> , 2019, 31, 238-246.	0.8	14
31	Facile synthesis of soluble aromatic poly(amide amine)s via C-N coupling reaction: Characterization, thermal, and optical properties. <i>Journal of Polymer Science Part A</i> , 2013, 51, 4845-4852.	2.5	10
32	Recyclable and Dual Cross-Linked High-Performance Polymer with an Amplified Strength-Toughness Combination. <i>Macromolecular Rapid Communications</i> , 2020, 41, e1900606.	2.0	10
33	Selective Carbon Dioxide Capture in Antifouling Indole-based Microporous Organic Polymers. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2020, 38, 187-194.	2.0	9
34	Facile synthesis of recyclable Zn(II)-metallo-supramolecular polymers and the visual detection of tensile strength and glass transition temperature. <i>Polymer Chemistry</i> , 2018, 9, 2721-2726.	1.9	8
35	Sandwich-like Structure of Indole and Carbon Dioxide with Efficient CO ₂ Capture and Conversion. <i>ACS Applied Polymer Materials</i> , 2019, 1, 3389-3395.	2.0	8
36	Renewable 4-HIF/NaOH aerogel for efficient methylene blue removal via cation- π interaction induced electrostatic interaction. <i>RSC Advances</i> , 2019, 9, 29772-29778.	1.7	8

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37	Hydrophilic domains compose of interlocking cation- π blocks for constructing hard actuator with robustness and rapid humidity responsiveness. <i>Chemical Engineering Journal</i> , 2021, 414, 128820.	6.6	6
38	An encouraging recyclable synergistic hydrogen bond crosslinked high-performance polymer with visual detection of tensile strength. <i>Polymer Testing</i> , 2018, 71, 167-172.	2.3	3
39	A novel carboxylic-functional indole-based aerogel for highly effective removal of heavy metals from aqueous solution <i>via</i> synergistic effects of face- π and point- π interactions. <i>RSC Advances</i> , 2019, 9, 24875-24879.	1.7	2
40	A Toughening and Anti-Counterfeiting Benzotriazole-Based High-Performance Polymer Film Driven by Appropriate Intermolecular Coordination Force. <i>Macromolecular Rapid Communications</i> , 2021, 42, 2000617.	2.0	2
41	Enhanced mechanical and photocatalytic performances of epoxy nanocomposites filled with potassium-modified graphitic carbon nitride nanosheets. <i>Journal of Applied Polymer Science</i> , 2021, 138, 51328.	1.3	2
42	Facile synthesis of thermal responsive fluorescent poly(imino ether sulfone): Nondestructive detection of Tg and erasable thermal imaging. <i>Polymer Testing</i> , 2018, 72, 330-334.	2.3	0