

Guan-jun Chang

List of Publications by Year in descending order

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68
papers

1,083
citations

393982

19
h-index

454577

30
g-index

68
all docs

68
docs citations

68
times ranked

1025
citing authors

#	ARTICLE	IF	CITATIONS
1	Tough non-covalent adaptable networks: Cation-π cross-linked rigid epoxy. <i>Polymer</i> , 2022, 243, 124626.	1.8	8
2	Force-Driven 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
3	Force-driven reversible chemical reaction at ambient temperature for designing toughened dynamic covalent polymer networks. <i>Nature Communications</i> , 2022, 13, .	5.8	16
4	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
5	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
6	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
7	Dynamic metallopolymer networks: a protocol to quantify Pt(<i>ii</i>) and π-π stacking interactions. <i>Journal of Materials Chemistry C</i> , 2021, 9, 15422-15427.	2.7	4
8	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
9	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
10	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
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	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
13	Indole-based high-performance polymeric materials with enhanced mechanical and thermal properties <i>via</i> cation-π interaction. <i>High Performance Polymers</i> , 2020, 32, 662-668.	0.8	2
14	A simple approach to prepare isoxazoline-based porous polymer for the highly effective adsorption of 2,4,6-trinitrotoluene (TNT): Catalyst-free click polymerization between an in situ generated nitrile oxide with polybutadiene. <i>Chemical Engineering Journal</i> , 2020, 393, 124674.	6.6	15
15	Rh(III)-Catalyzed Oxidative C-H Activation/Domino Annulation of Anilines with 1,3-Diynes: A Rapid Access to Blue-Emitting Tricyclic N,O-Heteroaromatics. <i>Organic Letters</i> , 2020, 22, 5309-5313.	2.4	23
16	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
17	A novel carboxylic-functional indole-based aerogel for highly effective removal of heavy metals from aqueous solution <i>via</i> synergistic effects of face-point and point-point interactions. <i>RSC Advances</i> , 2019, 9, 24875-24879.	1.7	2
18	Cation-π induced lithium-doped conjugated microporous polymer with remarkable hydrogen storage performance. <i>Chemical Communications</i> , 2019, 55, 11227-11230.	2.2	18

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19	Microporous organic hydroxyl-functionalized polybenzotriazole for encouraging CO ₂ capture and separation. RSC Advances, 2019, 9, 22604-22608.	1.7	5
20	A recyclable indole-based polymer for trinitrotoluene adsorption via the synergistic effect of dipole-dipole and donor-acceptor interactions. Polymer Chemistry, 2019, 10, 4632-4636.	1.9	16
21	Initiator-free preparation and properties of polystyrene-based plastic scintillators. Journal of Polymer Research, 2019, 26, 1.	1.2	4
22	Synthesis and Infrared Multi-band Absorption Properties of Core-shell NaYF ₄ :Yb ³⁺ , Er ³⁺ @SiO ₂ Nanoparticles. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2019, 645, 1240-1246.	0.6	1
23	Effect of methyl methacrylate on the properties of transparent flame retardant unsaturated phosphate ester copolymer. Polymer Engineering and Science, 2019, 59, 2103-2109.	1.5	3
24	An indole-based aerogel for enhanced removal of heavy metals from water via the synergistic effects of complexation and cation-dipole interactions. Journal of Materials Chemistry A, 2019, 7, 531-539.	5.2	51
25	Rational design of a boron-dipyrromethene-based fluorescent probe for detecting Pd ²⁺ sensitively and selectively in aqueous media. Analyst, The, 2019, 144, 1260-1264.	1.7	23
26	Preparation and characterization of a novel transparent flame retardant unsaturated phosphate ester polymer. Polymer Engineering and Science, 2019, 59, E425.	1.5	3
27	Sandwich-like Structure of Indole and Carbon Dioxide with Efficient CO ₂ Capture and Conversion. ACS Applied Polymer Materials, 2019, 1, 3389-3395.	2.0	8
28	Renewable 4-HIF/NaOH aerogel for efficient methylene blue removal via cation-dipole interaction induced electrostatic interaction. RSC Advances, 2019, 9, 29772-29778.	1.7	8
29	Novel phosphoric acid (PA)-poly(ether ketone sulfone) with flexible benzotriazole side chains for high-temperature proton exchange membranes. Polymer Journal, 2019, 51, 69-75.	1.3	16
30	Synthesis of a metal-coordinated N-substituted polybenzimidazole pyridine sulfone and method for the nondestructive analysis of thermal stability. High Performance Polymers, 2019, 31, 238-246.	0.8	14
31	Metal-coordination crosslinked N-polyindoles as recyclable high-performance thermosets and nondestructive detection for their tensile strength and glass transition temperature. Chemical Communications, 2018, 54, 2906-2909.	2.2	21
32	Recyclable Crosslinked High-Performance Polymers via Adjusting Intermolecular Cation-dipole Interactions and the Visual Detection of Tensile Strength and Glass Transition Temperature. Macromolecular Rapid Communications, 2018, 39, e1800031.	2.0	15
33	Facile synthesis of recyclable Zn(II)-metallo-supramolecular polymers and the visual detection of tensile strength and glass transition temperature. Polymer Chemistry, 2018, 9, 2721-2726.	1.9	8
34	High-Performance pH-Switchable Supramolecular Thermosets via Cation-dipole Interactions. Advanced Materials, 2018, 30, 1704234.	11.1	105
35	Recyclable Cu(II)-Coordination Crosslinked Poly(benzimidazolyl pyridine)s as High-Performance Polymers. Macromolecular Rapid Communications, 2018, 39, e1700573.	2.0	20
36	Phosphoric acid-doped poly(ether sulfone benzotriazole) for high-temperature proton exchange membrane fuel cell applications. Journal of Membrane Science, 2018, 549, 23-27.	4.1	79

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37	Synthesis and Characterization of Poly(ether ether ketone-co-benzimidazole)s Based on 2-(2'-Hydroxyphenyl) benzimidazole. <i>Polymer Science - Series B</i> , 2018, 60, 772-779.	0.3	0
38	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
39	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
40	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
41	Enhanced carbon dioxide capture in an indole-based microporous organic polymer <i>via</i> synergistic effects of indoles and their adjacent carbonyl groups. <i>Polymer Chemistry</i> , 2018, 9, 4455-4459.	1.9	17
42	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
43	Preparation and properties of redox responsive modified hyaluronic acid hydrogels for drug release. <i>Polymers for Advanced Technologies</i> , 2017, 28, 1759-1763.	1.6	25
44	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
45	Microporous coordination polymer with secondary amine functional groups for CO2 uptake and selectivity. <i>Journal of Polymer Research</i> , 2017, 24, 1.	1.2	4
46	High performance polyazaindole as a novel acid fluorescent sensor with a tunable ICT effect. <i>Polymer Science - Series B</i> , 2017, 59, 591-600.	0.3	1
47	Facile synthesis of new coumarin-based colorimetric and fluorescent chemosensors: Highly efficient and selective detection of Pd2+ in aqueous solutions. <i>Sensors and Actuators B: Chemical</i> , 2017, 240, 212-219.	4.0	43
48	Soluble N-substituted poly(benzimidazole imide)s via C-N coupling reaction. <i>Polymer International</i> , 2016, 65, 332-338.	1.6	9
49	Poly(imide ether sulphone) as new soluble high performance polymer. <i>Polymer Science - Series B</i> , 2016, 58, 329-333.	0.3	2
50	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
51	Preparation and characterization of low density Poly (Imino Imino Ketone) foam. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2016, 31, 700-704.	0.4	0
52	High performance poly(2,6-pyridinediyl indole ether) containing pyridine units as a novel acid response fluorescent detector. <i>Polymer International</i> , 2016, 65, 841-844.	1.6	7
53	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
54	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

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55	Intermolecular hydrogen bonding of polyiminosulfone. <i>Polymer Science - Series A</i> , 2015, 57, 251-255.	0.4	3
56	Synthesis of high-performance polymers via copper-catalyzed amination of dibromoarenes with primary aromatic ether diamines. <i>Macromolecular Research</i> , 2015, 23, 937-943.	1.0	4
57	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
58	Poly(imino imino ether ether ketone ketone) as novel soluble heat-resistant polymer. <i>Polymer Science - Series B</i> , 2014, 56, 639-644.	0.3	0
59	Facile synthesis of heat-resistant and photoluminescent poly(N-aryleneindole ether)s via catalyst-free C-N/C=O coupling reaction. <i>Journal of Polymer Science Part A</i> , 2014, 52, 313-320.	2.5	22
60	Copper-Catalyzed Aerobic Oxidation for the Amination of Benzoxazole Under Air. <i>Synthetic Communications</i> , 2014, 44, 2848-2853.	1.1	8
61	Intermolecular Hydrogen Bonding of Poly(Imino Imino Ketone Ketone). <i>Journal of Macromolecular Science - Physics</i> , 2014, 53, 749-755.	0.4	3
62	Synthesis of poly(arylene benzimidazole) sulfone (PABIS) and preparation of hollow PABIS microspheres. <i>Polymer International</i> , 2014, 63, 158-164.	1.6	0
63	Synthesis and properties of cross-linkable polysiloxane via incorporating benzocyclobutene. <i>High Performance Polymers</i> , 2014, 26, 463-469.	0.8	23
64	Synthesis of indole-based functional polymers with well-defined structures via a catalyst-free C-N coupling reaction. <i>RSC Advances</i> , 2014, 4, 30630-30637.	1.7	25
65	Design and preparation of high-performance amine-based poly(ether ketone)s with strong photonic luminescence. <i>Journal of Materials Science</i> , 2014, 49, 7213-7220.	1.7	7
66	Poly(arylene benzimidazole)s as novel high-performance polymers. <i>Polymer Journal</i> , 2013, 45, 1188-1194.	1.3	11
67	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
68	Molecular Simulations of Physical and Chemical Properties of Poly(Imino Ketone)s. <i>Journal of Macromolecular Science - Physics</i> , 2012, 51, 2499-2504.	0.4	3