Guan-jun Chang

List of Publications by Year
in descending order

68	1,083	393982	454577
papers	citations	19 h-index	30 g-index

68	68	68	1025
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High€Performance pH€Switchable Supramolecular Thermosets via Cation€“Ï€ Interactions. Advanced Materials, 2018, 30, 1704234.	11.1	105
2	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
3	Rational design of a novel indole-based microporous organic polymer: enhanced carbon dioxide uptake via local dipole€“Ï€ interactions. Journal of Materials Chemistry A, 2016, 4, 2517-2523.	5.2	65
4	An indole-based aerogel for enhanced removal of heavy metals from water via the synergistic effects of complexation and cation€“Ï€ interactions. Journal of Materials Chemistry A, 2019, 7, 531-539.	5.2	51
5	Facile synthesis of new coumarin-based colorimetric and fluorescent chemosensors: Highly efficient and selective detection of Pd2+ in aqueous solutions. Sensors and Actuators B: Chemical, 2017, 240, 212-219.	4.0	43
6	An indole-based conjugated microporous polymer: a new and stable lithium storage anode with high capacity and long life induced by cation€“Ï€ interactions and a N-rich aromatic structure. Journal of Materials Chemistry A, 2018, 6, 18794-18798.	5.2	43
7	High and Selective Carbon Dioxide Capture in Nitrogen-Containing Aerogels via Synergistic Effects of Electrostatic In-Plane and Dispersive Ï€â€“Ï€-Stacking Interactions. ACS Applied Materials & Interfaces, 2017, 9, 15213-15218.	4.0	35
8	An indole-derived porous organic polymer for the efficient visual colorimetric capture of iodine in aqueous media via the synergistic effects of cation€“Ï€ and electrostatic forces. Chemical Communications, 2020, 56, 1401-1404.	2.2	30
9	Rational design of a fluorescent poly(N-aryleneindole ether sulfone) switch by cation€“Ï€ interactions. Polymer Chemistry, 2015, 6, 697-702.	1.9	26
10	Synthesis of indole-based functional polymers with well-defined structures via a catalyst-free C€“N coupling reaction. RSC Advances, 2014, 4, 30630-30637.	1.7	25
11	A nitrogen-rich, azaindole-based microporous organic network: synergistic effect of local dipole€“Ï€ and dipole€“quadrupole interactions on carbon dioxide uptake. Polymer Chemistry, 2016, 7, 5768-5772.	1.9	25
12	Preparation and properties of redox responsive modified hyaluronic acid hydrogels for drug release. Polymers for Advanced Technologies, 2017, 28, 1759-1763.	1.6	25
13	A recyclable hydroxyl functionalized polyindole hydrogel for sodium hydroxide extraction via the synergistic effect of cation€“Ï€ interactions and hydrogen bonding. Chemical Communications, 2018, 54, 9785-9788.	2.2	24
14	Synthesis and properties of cross-linkable polysiloxane via incorporating benzocyclobutene. High Performance Polymers, 2014, 26, 463-469.	0.8	23
15	Rational design of a boron-dipyrromethene-based fluorescent probe for detecting Pd²⁺ sensitively and selectively in aqueous media. Analyst, The, 2019, 144, 1260-1264.	1.7	23
16	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. Organic Letters, 2020, 22, 5309-5313.	2.4	23
17	Facile synthesis of heat€resistant and photoluminescent poly(N€aryleneindole ether)s via catalyst€free Cï¿½N/Cï¿½O coupling reaction. Journal of Polymer Science Part A, 2014, 52, 313-320.	2.5	22
18	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

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19	Intermolecular channel expansion induced by cation-Ï€ interactions to enhance lithium storage in a crosslinked Ï€-conjugated organic anode. Journal of Power Sources, 2020, 449, 227551.	4.0	21
20	Recyclable Cu(II)â€Coordination Crosslinked Poly(benzimidazolyl pyridine)s as Highâ€Performance Polymers. Macromolecular Rapid Communications, 2018, 39, e1700573.	2.0	20
21	Cationâ€“Ï€ induced lithium-doped conjugated microporous polymer with remarkable hydrogen storage performance. Chemical Communications, 2019, 55, 11227-11230.	2.2	18
22	An indole-based smart aerogel for simultaneous visual detection and removal of trinitrotoluene in water via synergistic effect of dipole-Ï€ and donor-acceptor interactions. Chemical Engineering Journal, 2020, 384, 123358.	6.6	18
23	Forceâ€Reversible and Energetic Indoleâ€Mgâ€Indole Cationâ€Ï€ Interaction for Designing Toughened and Multifunctional Highâ€Performance Thermosets. Advanced Functional Materials, 2022, 32, .	7.8	18
24	Enhanced carbon dioxide capture in an indole-based microporous organic polymer via synergistic effects of indoles and their adjacent carbonyl groups. Polymer Chemistry, 2018, 9, 4455-4459.	1.9	17
25	Hydrogen bond cross-linked sulfonated poly(imino ether ether ketone) (PIEEK) for fuel cell membranes. Journal of Power Sources, 2015, 282, 401-408.	4.0	16
26	A recyclable indole-based polymer for trinitrotoluene adsorptionviathe synergistic effect of dipoleâ€“Ï€ and donorâ€“acceptor interactions. Polymer Chemistry, 2019, 10, 4632-4636.	1.9	16
27	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
28	Forceâ€“reversible chemical reaction at ambient temperature for designing toughened dynamic covalent polymer networks. Nature Communications, 2022, 13, .	5.8	16
29	Recyclable Crosslinked Highâ€Performance Polymers via Adjusting Intermolecular Cationâ€“Ï€ Interactions and the Visual Detection of Tensile Strength and Glass Transition Temperature. Macromolecular Rapid Communications, 2018, 39, e1800031.	2.0	15
30	Unprecedented toughening high-performance polyhexahydrotriazines constructed by incorporating pointâ€“face cationâ€“Ï€ interactions in covalently crosslinked networks and the visual detection of tensile strength. Chemical Communications, 2020, 56, 1054-1057.	2.2	15
31	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. Chemical Engineering Journal, 2020, 393, 124674.	6.6	15
32	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
33	Poly(arylene benzimidazole)s as novel high-performance polymers. Polymer Journal, 2013, 45, 1188-1194.	1.3	11
34	Facile synthesis of soluble aromatic poly(amide amine)s via C-N coupling reaction: Characterization, thermal, and optical properties. Journal of Polymer Science Part A, 2013, 51, 4845-4852.	2.5	10
35	Recyclable and Dual Crossâ€Linked Highâ€Performance Polymer with an Amplified Strengthâ€“Toughness Combination. Macromolecular Rapid Communications, 2020, 41, e1900606.	2.0	10
36	Soluble Nâ€substituted poly(benzimidazole imide)s via Câ€“N coupling reaction. Polymer International, 2016, 65, 332-338.	1.6	9

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37	Selective Carbon Dioxide Capture in Antifouling Indole-based Microporous Organic Polymers. Chinese Journal of Polymer Science (English Edition), 2020, 38, 187-194.	2.0	9
38	Copper-Catalyzed Aerobic Oxidation for the Amination of Benzoxazole Under Air. Synthetic Communications, 2014, 44, 2848-2853.	1.1	8
39	Facile synthesis of recyclable Zn(<scp>ii</scp>)-metallosupramolecular polymers and the visual detection of tensile strength and glass transition temperature. Polymer Chemistry, 2018, 9, 2721-2726.	1.9	8
40	Sandwich-like Structure of Indole and Carbon Dioxide with Efficient CO₂ Capture and Conversion. ACS Applied Polymer Materials, 2019, 1, 3389-3395.	2.0	8
41	Renewable 4-HIF/NaOH aerogel for efficient methylene blue removal via cationâ€“Ï€ interaction induced electrostatic interaction. RSC Advances, 2019, 9, 29772-29778.	1.7	8
42	Tough non-covalent adaptable networks: Cation-Ï€ cross-linked rigid epoxy. Polymer, 2022, 243, 124626.	1.8	8
43	Design and preparation of high-performance amine-based poly(ether ketone)s with strong photonic luminescence. Journal of Materials Science, 2014, 49, 7213-7220.	1.7	7
44	High performance poly(Nâ€aryleneindole ether) containing pyridine units as a novel acid response fluorescent detector. Polymer International, 2016, 65, 841-844.	1.6	7
45	Hydrophilic domains compose of interlocking cation-Ï€ blocks for constructing hard actuator with robustness and rapid humidity responsiveness. Chemical Engineering Journal, 2021, 414, 128820.	6.6	6
46	Microporous organic hydroxyl-functionalized polybenzotriazole for encouraging CO2 capture and separation. RSC Advances, 2019, 9, 22604-22608.	1.7	5
47	Synthesis of high-performance polymers via copper-catalyzed amination of dibromoarenes with primary aromatic ether diamines. Macromolecular Research, 2015, 23, 937-943.	1.0	4
48	Microporous coordination polymer with secondary amine functional groups for CO2 uptake and selectivity. Journal of Polymer Research, 2017, 24, 1.	1.2	4
49	Initiator-free preparation and properties of polystyrene-based plastic scintillators. Journal of Polymer Research, 2019, 26, 1.	1.2	4
50	Dynamic metallopolymer networks: a protocol to quantify Pt(<scp>ii</scp>)â‹¯Pt(<scp>ii</scp>) and Ï€â€“Ï€ stacking interactions. Journal of Materials Chemistry C, 2021, 9, 15422-15427.	2.7	4
51	Molecular Simulations of Physical and Chemical Properties of Poly(Imino Ketone)s. Journal of Macromolecular Science - Physics, 2012, 51, 2499-2504.	0.4	3
52	Intermolecular Hydrogen Bonding of Poly(Imino Imino Ketone Ketone). Journal of Macromolecular Science - Physics, 2014, 53, 749-755.	0.4	3
53	Intermolecular hydrogen bonding of polyiminosulfone. Polymer Science - Series A, 2015, 57, 251-255.	0.4	3
54	An encouraging recyclable synergistic hydrogen bond crosslinked high-performance polymer with visual detection of tensile strength. Polymer Testing, 2018, 71, 167-172.	2.3	3

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55	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
56	Preparation and characterization of a novel transparent flame retardant unsaturated phosphate ester polymer. Polymer Engineering and Science, 2019, 59, E425.	1.5	3
57	Poly(imide ether sulphone) as new soluble high performance polymer. Polymer Science - Series B, 2016, 58, 329-333.	0.3	2
58	A novel carboxylic-functional indole-based aerogel for highly effective removal of heavy metals from aqueous solution via synergistic effects of faceâ€“point and pointâ€“point interactions. RSC Advances, 2019, 9, 24875-24879.	1.7	2
59	Indole-based high-performance polymeric materials with enhanced mechanical and thermal properties via cation-Ï€ interaction. High Performance Polymers, 2020, 32, 662-668.	0.8	2
60	A Toughening and Antiâ€Counterfeiting Benzotriazoleâ€Based Highâ€Performance Polymer Film Driven by Appropriate Intermolecular Coordination Force. Macromolecular Rapid Communications, 2021, 42, 2000617.	2.0	2
61	Enhanced mechanical and photocatalytic performances of epoxy nanocomposites filled with potassiumâ€modified graphitic carbon nitride nanosheets. Journal of Applied Polymer Science, 2021, 138, 51328.	1.3	2
62	High performance polyazaindole as a novel acid fluorescent sensor with a tunable ICT effect. Polymer Science - Series B, 2017, 59, 591-600.	0.3	1
63	Synthesis and Infrared Multiâ€band Absorption Properties of Coreâ€shell NaYF 4 :Yb 3+ , Er 3+ @SiO 2 Nanoparticles. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2019, 645, 1240-1246.	0.6	1
64	Poly(imino imino ether ether ketone ketone) as novel soluble heat-resistant polymer. Polymer Science - Series B, 2014, 56, 639-644.	0.3	0
65	Synthesis of poly(arylene benzimidazole) sulfone (PABIS) and preparation of hollow PABIS microspheres. Polymer International, 2014, 63, 158-164.	1.6	0
66	Preparation and characterization of low density Poly (Imino Imino Ketone) foam. Journal Wuhan University of Technology, Materials Science Edition, 2016, 31, 700-704.	0.4	0
67	Synthesis and Characterization of Poly(ether ether ketone-co-benzimidazole)s Based on 2-(2'-Hydroxyphenyl) benzimidazole. Polymer Science - Series B, 2018, 60, 772-779.	0.3	0
68	Facile synthesis of thermal responsive fluorescent poly(imino ether sulfone): Nondestructive detection of Tg and erasable thermal imaging. Polymer Testing, 2018, 72, 330-334.	2.3	0