

Zhong-Gang Wang

List of Publications by Year in descending order

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70
papers

2,885
citations

126708

33
h-index

174990

52
g-index

70
all docs

70
docs citations

70
times ranked

2661
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural effects of microporous polymers on adsorption/separation of C1-C3 light hydrocarbons and CO ₂ in natural gas. <i>Chemical Engineering Journal</i> , 2022, 427, 131985.	6.6	17
2	Synthesis of a Magnetic Co@C Material via the Design of a MOF Precursor for Efficient and Selective Adsorption of Water Pollutants. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2022, 32, 700-712.	1.9	5
3	Micro-/Mesoporous Fluorescent Polymers and Devices for Visual Pesticide Detection with Portability, High Sensitivity, and Ultrafast Response. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 5815-5824.	4.0	22
4	Highly efficient separation of ethylene/ethane in microenvironment-modulated microporous polymers. <i>Separation and Purification Technology</i> , 2022, 287, 120580.	3.9	10
5	Covalent triazine frameworks for the dynamic adsorption/separation of benzene/cyclohexane mixtures. <i>New Journal of Chemistry</i> , 2022, 46, 7580-7587.	1.4	10
6	Construction of Hierarchical Porous Polycyanurate Networks with Cobaltoporphyrin for CO ₂ Adsorption and Efficient Conversion to Cyclic Di- and Tri-Carbonates. <i>Macromolecules</i> , 2022, 55, 4832-4840.	2.2	5
7	A novel 3D Zn-coordination polymer based on a multiresponsive fluorescent sensor demonstrating outstanding sensitivities and selectivities for the efficient detection of multiple analytes. <i>Dalton Transactions</i> , 2021, 50, 15176-15186.	1.6	17
8	Facile synthesis of hydroxyl- and amine-rich porous polymer for indium recovery in water. <i>Microporous and Mesoporous Materials</i> , 2021, 323, 111162.	2.2	8
9	Porphyrin-Based Nanoporous Organic Polymers for Adsorption of Carbon Dioxide, Ethane, and Methane. <i>ACS Applied Nano Materials</i> , 2021, 4, 10565-10574.	2.4	16
10	Fluorine-Functionalized Nanoporous Polymers for Selective Adsorption/Separation of Ethylene, C ₁ -C ₃ Alkanes, and CO ₂ . <i>ACS Applied Nano Materials</i> , 2021, 4, 14060-14068.	2.4	11
11	Thermal and dielectric properties of nanocomposites prepared from reactive graphene oxide and silicon-containing cycloaliphatic diepoxide. <i>Polymer Composites</i> , 2020, 41, 871-878.	2.3	5
12	Creation of Carbazole-Based Fluorescent Porous Polymers for Recognition and Detection of Various Pesticides in Water. <i>ACS Sensors</i> , 2020, 5, 162-170.	4.0	79
13	Micro- and Ultramicroporous Polyaminals for Highly Efficient Adsorption/Separation of C ₁ -C ₃ Hydrocarbons and CO ₂ in Natural Gas. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 24488-24497.	4.0	40
14	Highly Nitrogen-Rich Microporous Polyaminals Using <i>N,N</i> -Dimethylformamide and Formamide as the Starting Monomers for CO ₂ Adsorption and Separation. <i>Journal of Physical Chemistry C</i> , 2020, 124, 3087-3094.	1.5	22
15	Pillar[5]arene-Derived Microporous Polyaminal Networks with Enhanced Uptake Performance for CO ₂ and Iodine. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 3269-3278.	1.8	29
16	Tetraphenylsilane-Cored Star-Shaped Amphiphilic Block Copolymers for pH-Responsive Anticancer Drug Delivery. <i>Macromolecular Chemistry and Physics</i> , 2019, 220, 1900248.	1.1	8
17	Tetraphenylsilane-Cored Star-Shaped Polymer Micelles with pH/Redox Dual Response and Active Targeting Function for Drug-Controlled Release. <i>Biomacromolecules</i> , 2019, 20, 4602-4610.	2.6	26
18	Carboxyl-, Hydroxyl-, and Nitro-Functionalized Porous Polyaminals for Highly Selective CO ₂ Capture. <i>ACS Applied Polymer Materials</i> , 2019, 1, 1524-1531.	2.0	37

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19	Cost-effective preparation of microporous polymers from formamide derivatives and adsorption of CO ₂ under dry and humid conditions. <i>Polymer Chemistry</i> , 2019, 10, 3371-3379.	1.9	35
20	Highly Selective Adsorption for Ethylene, Propylene, and Carbon Dioxide in Silver-Ionized Microporous Polyimide. <i>Journal of Physical Chemistry C</i> , 2019, 123, 575-583.	1.5	29
21	Synthesis of Fluorescent Micro- and Mesoporous Polyaminals for Detection of Toxic Pesticides. <i>Macromolecules</i> , 2018, 51, 1769-1776.	2.2	57
22	Hierarchical Porous Phenolic Resin and Its Supported Pd Catalyst for Suzuki-Miyaura Reactions in Water Medium. <i>Macromolecular Rapid Communications</i> , 2018, 39, 1700618.	2.0	26
23	Highly Selective Separation of CO ₂ , CH ₄ , and C ₂ H ₂ from C ₄ Hydrocarbons in Ultramicroporous Semicycloaliphatic Polyimides. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 26618-26627.	4.0	62
24	Microporous Polybenzoxazoles with Tunable Porosity and Heteroatom Concentration for Dynamic Adsorption/Separation of CO ₂ Mixed Gases. <i>Journal of Physical Chemistry C</i> , 2018, 122, 12831-12838.	1.5	21
25	Synthetic modulation of micro- and mesopores in polycyanurate networks for adsorptions of gases and organic hydrocarbons. <i>Polymer Chemistry</i> , 2017, 8, 1074-1083.	1.9	35
26	Triptycene-Based Microporous Cyanate Resins for Adsorption/Separations of Benzene/Cyclohexane and Carbon Dioxide Gas. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 41618-41627.	4.0	42
27	Synthesis and Characterization of Waterborne Fluoropolymers Prepared by the One-Step Semi-Continuous Emulsion Polymerization of Chlorotrifluoroethylene, Vinyl Acetate, Butyl Acrylate, Veova 10 and Acrylic Acid. <i>Molecules</i> , 2017, 22, 184.	1.7	11
28	Ultramicroporous Carbons Derived from Semi-Cycloaliphatic Polyimide with Outstanding Adsorption Properties for H ₂ , CO ₂ , and Organic Vapors. <i>Journal of Physical Chemistry C</i> , 2017, 121, 22753-22761.	1.5	17
29	Fluorinated star-shaped block copolymers: Synthesis and optical properties. <i>Journal of Polymer Science Part A</i> , 2016, 54, 1969-1977.	2.5	6
30	Microporous polyimides with functional groups for the adsorption of carbon dioxide and organic vapors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 11453-11461.	5.2	61
31	Facile Synthesis of Fluorinated Microporous Polyaminals for Adsorption of Carbon Dioxide and Selectivities over Nitrogen and Methane. <i>Macromolecules</i> , 2016, 49, 2575-2581.	2.2	90
32	Monodispersed ultramicroporous semi-cycloaliphatic polyimides for the highly efficient adsorption of CO ₂ , H ₂ and organic vapors. <i>Polymer Chemistry</i> , 2016, 7, 7295-7303.	1.9	36
33	Fabrication of Superhydrophobic and Luminescent Rare Earth/Polymer complex Films. <i>Scientific Reports</i> , 2016, 6, 24682.	1.6	18
34	Phthalazinone structure-based covalent triazine frameworks and their gas adsorption and separation properties. <i>RSC Advances</i> , 2016, 6, 12009-12020.	1.7	49
35	The cost-effective synthesis of furan- and thienyl-based microporous polyaminals for adsorption of gases and organic vapors. <i>Chemical Communications</i> , 2016, 52, 1143-1146.	2.2	62
36	Heat-Resistant Crack-Free Superhydrophobic Polydivinylbenzene Colloidal Films. <i>Langmuir</i> , 2016, 32, 3079-3084.	1.6	14

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37	Tetraphenyladamantane-Based Microporous Polybenzimidazoles for Adsorption of Carbon Dioxide, Hydrogen, and Organic Vapors. <i>Journal of Physical Chemistry C</i> , 2015, 119, 13080-13087.	1.5	32
38	Synthesis and degradable properties of cycloaliphatic epoxy resin from renewable biomass-based furfural. <i>RSC Advances</i> , 2015, 5, 95126-95132.	1.7	17
39	A rational construction of microporous imide-bridged covalent organic polytriazines for high-enthalpy small gas absorption. <i>Journal of Materials Chemistry A</i> , 2015, 3, 878-885.	5.2	81
40	Microporous Poly(Schiff Base) Constructed from Tetraphenyladamantane Units for Adsorption of Gases and Organic Vapors. <i>Macromolecular Rapid Communications</i> , 2014, 35, 971-975.	2.0	33
41	The directing effect of linking units on building microporous architecture in tetraphenyladamantane-based poly(Schiff base) networks. <i>Chemical Communications</i> , 2014, 50, 1897.	2.2	63
42	Liquid acid-catalysed fabrication of nanoporous 1,3,5-triazine frameworks with efficient and selective CO ₂ uptake. <i>Polymer Chemistry</i> , 2014, 5, 3424.	1.9	112
43	Tetraphenyladamantane-Based Microporous Polyimide and Its Nitro-Functionalization for Highly Efficient CO ₂ Capture. <i>Journal of Physical Chemistry C</i> , 2014, 118, 17585-17593.	1.5	57
44	Tetraphenyladamantane-Based Polyaminals for Highly Efficient Captures of CO ₂ and Organic Vapors. <i>Macromolecules</i> , 2014, 47, 6664-6670.	2.2	112
45	Synthesis of 1,3,5,7-tetrakis(4-cyanatophenyl)adamantane and its microporous polycyanurate network for adsorption of organic vapors, hydrogen and carbon dioxide. <i>Chemical Communications</i> , 2014, 50, 11238.	2.2	52
46	Micro- and mesoporous poly(Schiff-base)s constructed from different building blocks and their adsorption behaviors towards organic vapors and CO ₂ gas. <i>Journal of Materials Chemistry A</i> , 2014, 2, 18881-18888.	5.2	66
47	Facile preparation of porous polybenzimidazole networks and adsorption behavior of CO ₂ gas, organic and water vapors. <i>Polymer Chemistry</i> , 2013, 4, 961-968.	1.9	67
48	Comparative study of silicon-containing cycloaliphatic epoxides between different chemical structures and curing mechanisms for potential light-emitting diode encapsulation applications. <i>Polymer International</i> , 2013, 62, 512-522.	1.6	4
49	Naphthalene-Based Microporous Polyimides: Adsorption Behavior of CO ₂ and Toxic Organic Vapors and Their Separation from Other Gases. <i>Journal of Physical Chemistry C</i> , 2013, 117, 24428-24437.	1.5	59
50	Tetraphenyladamantane-based microporous polyimide for adsorption of carbon dioxide, hydrogen, organic and water vapors. <i>Chemical Communications</i> , 2013, 49, 3321.	2.2	71
51	Microporous Polyimides with Uniform Pores for Adsorption and Separation of CO ₂ Gas and Organic Vapors. <i>Macromolecules</i> , 2013, 46, 3058-3066.	2.2	181
52	Micro- and Mesoporous Polycyanurate Networks Based on Triangular Units. <i>ChemPlusChem</i> , 2013, 78, 498-505.	1.3	27
53	Dendrimers with tetraphenylsilane core and 9-phenylcarbazole-based dendrons: synthesis, photophysics, and electrochemical behavior. <i>RSC Advances</i> , 2012, 2, 9488.	1.7	7
54	Microporous Cyanate Resins: Synthesis, Porous Structure, and Correlations with Gas and Vapor Adsorptions. <i>Macromolecules</i> , 2012, 45, 5140-5150.	2.2	98

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55	Starburst dendrimers consisting of triphenylamine core and 9-phenylcarbazole-based dendrons: synthesis and properties. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 9481.	1.5	21
56	Synthesis and properties of two novel silicon-containing cycloaliphatic epoxy resins for electronic packaging application. <i>Polymers for Advanced Technologies</i> , 2012, 23, 367-374.	1.6	26
57	Pyrene-cored dendrimer with carbazole derivatives as dendrons: synthesis, properties and application in white light-emitting diode. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 17825.	1.3	37
58	Synthetic control of network topology and pore structure in microporous polyimides based on triangular triphenylbenzene and triphenylamine units. <i>Soft Matter</i> , 2011, 7, 5723.	1.2	65
59	Synthesis and fluorescence properties of dysprosium-coordinated with high- T_g polyaryletherketones containing carboxyl side groups. <i>Polymers for Advanced Technologies</i> , 2011, 22, 488-494.	1.6	5
60	Silicon-Containing Cycloaliphatic Epoxy Resins with Systematically Varied Functionalities: Synthesis and Structure/Property Relationships. <i>Macromolecular Chemistry and Physics</i> , 2011, 212, 926-936.	1.1	33
61	Copolymer networks from carboxyl-containing polyaryletherketone and diglycidyl ether of bisphenol-A: Preparation and properties. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 2424-2431.	2.4	10
62	Synthesis and fluorescence properties of novel 1,10-phenanthroline-functionalized polyaryletherketone and its rare earth complexes. <i>Polymer International</i> , 2010, 59, 937-944.	1.6	22
63	Microporous polyimide networks with large surface areas and their hydrogen storage properties. <i>Chemical Communications</i> , 2010, 46, 7730.	2.2	125
64	Microporous Thermosetting Film Constructed from Hyperbranched Polyarylate Precursors Containing Rigid Tetrahedral Core: Synthesis, Characterization, and Properties. <i>Chemistry of Materials</i> , 2010, 22, 2780-2789.	3.2	44
65	Tuning the luminescence lifetimes of ruthenium(ii) polypyridine complexes and its application in luminescent oxygen sensing. <i>Journal of Materials Chemistry</i> , 2010, 20, 1953.	6.7	182
66	Synthesis of bis(2,3-epoxycyclohexyl) and its cationic photopolymerization in the presence of different diols. <i>Polymer International</i> , 2009, 58, 74-80.	1.6	9
67	Curing of diglycidyl ether of bisphenol-A epoxy resin using a poly(aryl ether ketone) bearing pendant carboxyl groups as macromolecular curing agent. <i>Polymer International</i> , 2009, 58, 912-918.	1.6	24
68	Synthesis and properties of a series of cyanate resins based on phenolphthalein and its derivatives. <i>Polymer</i> , 2009, 50, 817-824.	1.8	49
69	Building ultramicropores within organic polymers based on a thermosetting cyanate ester resin. <i>Chemical Communications</i> , 2009, , 5027.	2.2	45
70	Self-Segregation Behavior of <i>N</i> -Ethyl-pentadecafluorooctanamide-Terminated Polybutylene Isophthalate and Its Effects on Film Morphology and Wettability. <i>Journal of Physical Chemistry B</i> , 2009, 113, 15204-15211.	1.2	11