

Zhuxian Yang

List of Publications by Year in descending order

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52
papers

3,990
citations

236612

25
h-index

189595

50
g-index

54
all docs

54
docs citations

54
times ranked

5746
citing authors

#	ARTICLE	IF	CITATIONS
1	Zeolitic imidazolate framework materials: recent progress in synthesis and applications. <i>Journal of Materials Chemistry A</i> , 2014, 2, 16811-16831.	5.2	753
2	Enhanced Hydrogen Storage Capacity of High Surface Area Zeolite-like Carbon Materials. <i>Journal of the American Chemical Society</i> , 2007, 129, 1673-1679.	6.6	568
3	Porous carbon-based materials for hydrogen storage: advancement and challenges. <i>Journal of Materials Chemistry A</i> , 2013, 1, 9365.	5.2	320
4	Templated nanoscale porous carbons. <i>Nanoscale</i> , 2010, 2, 639.	2.8	299
5	Zeolite ZSM-5 with Unique Supermicropores Synthesized Using Mesoporous Carbon as a Template. <i>Advanced Materials</i> , 2004, 16, 727-732.	11.1	279
6	Preparation and Hydrogen Storage Properties of Zeolite-Templated Carbon Materials Nanocast via Chemical Vapor Deposition: A Effect of the Zeolite Template and Nitrogen Doping. <i>Journal of Physical Chemistry B</i> , 2006, 110, 18424-18431.	1.2	243
7	Mesostructured Hollow Spheres of Graphitic N-Doped Carbon Nanocast from Spherical Mesoporous Silica. <i>Journal of Physical Chemistry B</i> , 2004, 108, 19293-19298.	1.2	138
8	Recent Advances in Metal-Organic Frameworks Derived Nanocomposites for Photocatalytic Applications in Energy and Environment. <i>Advanced Science</i> , 2021, 8, e2100625.	5.6	118
9	High temperature thermal stabilization of alumina modified by lanthanum species. <i>Applied Catalysis A: General</i> , 2001, 205, 159-172.	2.2	115
10	High Surface Area Silicon Carbide Whiskers and Nanotubes Nanocast Using Mesoporous Silica. <i>Chemistry of Materials</i> , 2004, 16, 3877-3884.	3.2	102
11	Preparation of 3D graphene-based architectures and their applications in supercapacitors. <i>Progress in Natural Science: Materials International</i> , 2015, 25, 554-562.	1.8	87
12	Simultaneous Control of Morphology and Porosity in Nanoporous Carbon: Graphitic Mesoporous Carbon Nanorods and Nanotubules with Tunable Pore Size. <i>Chemistry of Materials</i> , 2006, 18, 140-148.	3.2	85
13	Heteroatom-doped porous carbons with enhanced carbon dioxide uptake and excellent methylene blue adsorption capacities. <i>Microporous and Mesoporous Materials</i> , 2018, 257, 1-8.	2.2	61
14	Hollow shells of high surface area graphitic N-doped carbon composites nanocast using zeolite templates. <i>Microporous and Mesoporous Materials</i> , 2005, 86, 69-80.	2.2	54
15	Aligned N-Doped Carbon Nanotube Bundles Prepared via CVD Using Zeolite Substrates. <i>Chemistry of Materials</i> , 2005, 17, 4502-4508.	3.2	52
16	Molecularly Ordered Ethylene-Bridged Periodic Mesoporous Organosilica Spheres with Tunable Micrometer Sizes. <i>Chemistry of Materials</i> , 2006, 18, 1141-1148.	3.2	52
17	Polyoxometallates@zeolitic-imidazolate-framework derived bimetallic tungsten-cobalt sulfide/porous carbon nanocomposites as efficient bifunctional electrocatalysts for hydrogen and oxygen evolution. <i>Electrochimica Acta</i> , 2020, 330, 135335.	2.6	52
18	Three dimensional (3D) flexible graphene foam/polypyrrole composite: towards highly efficient supercapacitors. <i>RSC Advances</i> , 2015, 5, 3999-4008.	1.7	44

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19	Surface functionalized N-C-TiO ₂ /C nanocomposites derived from metal-organic framework in water vapour for enhanced photocatalytic H ₂ generation. <i>Journal of Energy Chemistry</i> , 2021, 57, 485-495.	7.1	38
20	Bimetallic organic framework derived multi-heterostructured TiO ₂ /Cu _x O/C nanocomposites with superior photocatalytic H ₂ generation performance. <i>Journal of Materials Chemistry A</i> , 2021, 9, 4103-4116.	5.2	37
21	Periodic mesoporous organosilica mesophases are versatile precursors for the direct preparation of mesoporous silica/carbon composites, carbon and silicon carbide materials. <i>Journal of Materials Chemistry</i> , 2006, 16, 3417.	6.7	36
22	CVD Nanocasting Routes to Zeolite-templated Carbons for Hydrogen Storage. <i>Chemical Vapor Deposition</i> , 2010, 16, 322-328.	1.4	32
23	Improved hydrogen release from ammonia borane confined in microporous carbon with narrow pore size distribution. <i>Journal of Materials Chemistry A</i> , 2017, 5, 15395-15400.	5.2	31
24	Metal-organic framework derived multi-functionalized and co-doped TiO ₂ /C nanocomposites for excellent visible-light photocatalysis. <i>Journal of Materials Science and Technology</i> , 2022, 101, 49-59.	5.6	29
25	Bimetallic Fe-Mo sulfide/carbon nanocomposites derived from phosphomolybdic acid encapsulated MOF for efficient hydrogen generation. <i>Journal of Materials Science and Technology</i> , 2021, 84, 76-85.	5.6	26
26	Preparation and gases storage capacities of N-doped porous activated carbon materials derived from mesoporous polymer. <i>Materials Chemistry and Physics</i> , 2013, 141, 318-323.	2.0	25
27	Designing 3D graphene networks via a 3D-printed Ni template. <i>RSC Advances</i> , 2015, 5, 29397-29400.	1.7	25
28	Novel mesoporous silicoaluminophosphates as highly active and selective materials in the Beckmann rearrangement of cyclohexanone and cyclododecanone oximes. <i>Journal of Catalysis</i> , 2007, 252, 1-10.	3.1	23
29	Comparison of effect of La-modification on the thermostabilities of alumina and alumina-supported Pd catalysts prepared from different alumina sources. <i>Applied Catalysis B: Environmental</i> , 2001, 29, 185-194.	10.8	22
30	A simple method for the production of highly ordered porous carbon materials with increased hydrogen uptake capacities. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 5039-5052.	3.8	22
31	Graphene-reinforced metal-organic frameworks derived cobalt sulfide/carbon nanocomposites as efficient multifunctional electrocatalysts. <i>Frontiers of Chemical Science and Engineering</i> , 2021, 15, 1487-1499.	2.3	22
32	How the Toughest Inorganic Fullerene Cages Absorb Shockwave Pressures in a Protective Nanocomposite: Experimental Evidence from Two <i>In Situ</i> Investigations. <i>ACS Nano</i> , 2017, 11, 8114-8121.	7.3	20
33	Novel graphitic carbon coated IF-WS ₂ reinforced poly(ether ether ketone) nanocomposites. <i>RSC Advances</i> , 2017, 7, 35265-35273.	1.7	19
34	Bimetallic Co-Mo sulfide/carbon composites derived from polyoxometalate encapsulated polydopamine-decorated ZIF nanocubes for efficient hydrogen and oxygen evolution. <i>Nanoscale</i> , 2022, 14, 4726-4739.	2.8	17
35	Enrichment of low concentration methane: an overview of ventilation air methane. <i>Journal of Materials Chemistry A</i> , 2022, 10, 6397-6413.	5.2	17
36	Synthesis of hollow spherical mesoporous N-doped carbon materials with graphitic framework. <i>Studies in Surface Science and Catalysis</i> , 2005, , 565-572.	1.5	14

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37	Probing the effect of the carbonisation process on the textural properties and morphology of mesoporous carbons. <i>Microporous and Mesoporous Materials</i> , 2008, 113, 378-384.	2.2	13
38	A generic method to synthesise graphitic carbon coated nanoparticles in large scale and their derivative polymer nanocomposites. <i>Scientific Reports</i> , 2017, 7, 11829.	1.6	13
39	Interface and properties of inorganic fullerene tungsten sulphide nanoparticle reinforced poly (ether ether ketone) nanocomposites. <i>Results in Physics</i> , 2017, 7, 2417-2424.	2.0	12
40	A Systematic Study on the Preparation and Hydrogen Storage of Zeolite 13X-Templated Microporous Carbons. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 2152-2158.	1.0	11
41	The effect of complex halides and binary halides on hydrogen release for the 2LiBH ₄ :1MgH ₂ system. <i>Faraday Discussions</i> , 2011, 151, 133.	1.6	10
42	Hydrogen adsorption properties of in-situ synthesized Pt-decorated porous carbons templated from zeolite EMC-2. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 25086-25095.	3.8	9
43	One-step construction of porous Ni/Co metal/oxide nanocubes for highly efficient oxygen evolution. <i>Electrochemistry Communications</i> , 2018, 93, 191-196.	2.3	8
44	Concentration of unconventional methane resources using microporous membranes: Process assessment and scale-up. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 81, 103420.	2.1	8
45	Porous N-doped carbon with various hollow-cored morphologies nanocast using zeolite templates via chemical vapour deposition. <i>Studies in Surface Science and Catalysis</i> , 2005, 156, 573-580.	1.5	7
46	Self-Assembled Ultralarge Millimeter-Sized Graphitic Carbon Rods Grown on Mesoporous Silica Substrate. <i>Chemistry of Materials</i> , 2007, 19, 6317-6322.	3.2	5
47	The preparation of SiC nanowires reinforced porous carbon nanocomposites by a simple method. <i>Materials Chemistry and Physics</i> , 2018, 219, 258-262.	2.0	5
48	Novel Fibrous Catalyst in Advanced Oxidation of Photographic Processing Effluents. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2006, 41, 129-141.	0.9	4
49	Phase Behavior and Thermo-Mechanical Properties of IF-WS ₂ Reinforced PP/PET Blend-Based Nanocomposites. <i>Polymers</i> , 2020, 12, 2342.	2.0	4
50	Preparation of versatile silica/carbon nanocomposites via carbonization of ethyl-bridged periodic mesoporous organosilica. <i>Studies in Surface Science and Catalysis</i> , 2007, , 393-396.	1.5	1
51	EFFECT OF CARBONISATION HEATING RAMP RATE ON THE PROPERTIES OF ORDERED MESOPOROUS CARBONS. , 2008, , .		0
52	Permeability studies on 3D Ni foam/graphene composites. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 385303.	1.3	0