Hani M El-Kaderi

List of Publications by Year
in descending order

57 papers	7,833 citations	87888 38 h-index	144013 57 g-index
58 all docs	58 docs citations	58 times ranked	7266 citing authors

#	Article	IF	Citations
1	Designed Synthesis of 3D Covalent Organic Frameworks. Science, 2007, 316, 268-272.	12.6	2,024
2	Reticular Synthesis of Microporous and Mesoporous 2D Covalent Organic Frameworks. Journal of the American Chemical Society, 2007, 129, 12914-12915.	13.7	682
3	Synthesis and Characterization of Porous Benzimidazole-Linked Polymers and Their Performance in Small Gas Storage and Selective Uptake. Chemistry of Materials, 2012, 24, 1511-1517.	6.7	433
4	Template-Free Synthesis of a Highly Porous Benzimidazole-Linked Polymer for CO₂ Capture and H₂ Storage. Chemistry of Materials, 2011, 23, 1650-1653.	6.7	390
5	A 2D Mesoporous Imineâ€Linked Covalent Organic Framework for High Pressure Gas Storage Applications. Chemistry - A European Journal, 2013, 19, 3324-3328.	3.3	380
6	Metallic and bimetallic nanocatalysts incorporated into highly porous coordination polymer MIL-101. Journal of Materials Chemistry, 2009, 19, 7625.	6.7	277
7	Copper(I)-Catalyzed Synthesis of Nanoporous Azo-Linked Polymers: Impact of Textural Properties on Gas Storage and Selective Carbon Dioxide Capture. Chemistry of Materials, 2014, 26, 1385-1392.	6.7	276
8	Exceptional Gas Adsorption Properties by Nitrogen-Doped Porous Carbons Derived from Benzimidazole-Linked Polymers. Chemistry of Materials, 2015, 27, 1349-1358.	6.7	220
9	High CO₂uptake and selectivity by triptycene-derived benzimidazole-linked polymers. Chemical Communications, 2012, 48, 1141-1143.	4.1	217
10	Targeted synthesis of a porous borazine-linked covalent organic framework. Chemical Communications, 2012, 48, 8823.	4.1	200
11	Highly Selective CO₂ Capture by Triazine-Based Benzimidazole-Linked Polymers. Macromolecules, 2014, 47, 8328-8334.	4.8	141
12	Pyrene-directed growth of nanoporous benzimidazole-linked nanofibers and their application to selective CO2 capture and separation. Journal of Materials Chemistry, 2012, 22, 25409.	6.7	138
13	Impact of post-synthesis modification of nanoporous organic frameworks on small gas uptake and selective CO2 capture. Journal of Materials Chemistry A, 2013, 1, 10259.	10.3	134
14	Nitrogen-Rich Porous Polymers for Carbon Dioxide and Iodine Sequestration for Environmental Remediation. ACS Applied Materials & Interfaces, 2018, 10, 16049-16058.	8.0	134
15	Targeted synthesis of a mesoporous triptycene-derived covalent organic framework. CrystEngComm, 2013, 15, 1524-1527.	2.6	131
16	Graphitic Biocarbon from Metal-Catalyzed Hydrothermal Carbonization of Lignin. Industrial & Engineering Chemistry Research, 2015, 54, 10731-10739.	3.7	107
17	Highly selective CO2/CH4 gas uptake by a halogen-decorated borazine-linked polymer. Journal of Materials Chemistry, 2012, 22, 13524.	6.7	95
18	Lignin-derived heteroatom-doped porous carbons for supercapacitor and CO₂ capture applications. International Journal of Energy Research, 2018, 42, 2686-2700.	4.5	94

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19	Rapid Formation of Metalâ€“Organic Frameworks (MOFs) Based Nanocomposites in Microdroplets and Their Applications for CO₂ Photoreduction. ACS Applied Materials & Interfaces, 2017, 9, 9688-9698.	8.0	91
20	A cost-effective synthesis of heteroatom-doped porous carbons as efficient CO₂ sorbents. Journal of Materials Chemistry A, 2016, 4, 14693-14702.	10.3	90
21	Benzothiazole- and benzoxazole-linked porous polymers for carbon dioxide storage and separation. Journal of Materials Chemistry A, 2017, 5, 258-265.	10.3	87
22	Application of pyrene-derived benzimidazole-linked polymers to CO₂ separation under pressure and vacuum swing adsorption settings. Journal of Materials Chemistry A, 2014, 2, 12492-12500.	10.3	85
23	Synthesis and evaluation of porous azo-linked polymers for carbon dioxide capture and separation. Journal of Materials Chemistry A, 2015, 3, 20586-20594.	10.3	84
24	Synthesis of highly porous borazine-linked polymers and their application to H2, CO2, and CH4 storage. Polymer Chemistry, 2011, 2, 2775.	3.9	77
25	Enhanced Carbon Dioxide Capture from Landfill Gas Using Bifunctionalized Benzimidazole-Linked Polymers. ACS Applied Materials & Interfaces, 2016, 8, 14648-14655.	8.0	76
26	Redox-Active Porous Organic Polymers as Novel Electrode Materials for Green Rechargeable Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 23520-23526.	8.0	73
27	An ultra-microporous organic polymer for high performance carbon dioxide capture and separation. Chemical Communications, 2015, 51, 13393-13396.	4.1	71
28	Nitrogen and oxygen dual-doped porous carbons prepared from pea protein as electrode materials for high performance supercapacitors. International Journal of Hydrogen Energy, 2018, 43, 18549-18558.	7.1	71
29	Systematic Postsynthetic Modification of Nanoporous Organic Frameworks for Enhanced CO₂ Capture from Flue Gas and Landfill Gas. Journal of Physical Chemistry C, 2016, 120, 2592-2599.	3.1	69
30	Synthesis, structure, and properties of magnesium complexes containing cyclopentadienyl and amidinate ligand sets. Journal of Organometallic Chemistry, 2003, 682, 224-232.	1.8	68
31	Exceptional Sodium-Ion Storage by an Aza-Covalent Organic Framework for High Energy and Power Density Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 15083-15091.	8.0	67
32	Synthesis, structure and properties of volatile lanthanide complexes containing amidinate ligands: application for Er2O3 thin film growth by atomic layer deposition. Journal of Materials Chemistry, 2005, 15, 4224.	6.7	64
33	Effective Approach for Increasing the Heteroatom Doping Levels of Porous Carbons for Superior CO₂ Capture and Separation Performance. ACS Applied Materials & Interfaces, 2017, 9, 35802-35810.	8.0	61
34	Synthesis and characterization of highly porous borazine-linked polymers and their performance in hydrogen storage application. Journal of Materials Chemistry, 2011, 21, 10629.	6.7	57
35	New insights into carbon dioxide interactions with benzimidazole-linked polymers. Chemical Communications, 2014, 50, 3571-3574.	4.1	51
36	Factors that Influence Ï€- versus Î·2-Coordination of Î²-Diketiminato Ligands in Magnesium Complexes. Organometallics, 2004, 23, 3488-3495.	2.3	48

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37	Effect of Acid-Catalyzed Formation Rates of Benzimidazole-Linked Polymers on Porosity and Selective CO₂ Capture from Gas Mixtures. Environmental Science & Technology, 2015, 49, 4715-4723.	10.0	41
38	From Azo-Linked Polymers to Microporous Heteroatom-Doped Carbons: Tailored Chemical and Textural Properties for Gas Separation. ACS Applied Materials & Interfaces, 2016, 8, 8491-8501.	8.0	39
39	Nickel-catalyzed synthesis of nanoporous organic frameworks and their potential use in gas storage applications. Research on Chemical Intermediates, 2011, 37, 747-757.	2.7	38
40	Rapid transformation of heterocyclic building blocks into nanoporous carbons for high-performance supercapacitors. RSC Advances, 2018, 8, 12300-12309.	3.6	38
41	Heterogeneous catalysis by ultra-small bimetallic nanoparticles surpassing homogeneous catalysis for carbonâ€“carbon bond forming reactions. Nanoscale, 2020, 12, 19191-19202.	5.6	33
42	Synthesis of a Highly Porous Bis(imino)pyridine-Linked Polymer and Its Postsynthetic Modification with Inorganic Fluorinated Ions for Selective CO₂ Capture. Journal of Physical Chemistry C, 2015, 119, 8174-8182.	3.1	32
43	Sandwich Complexes of the Heavier Alkaline Earth Metals Containing Î·5-Î²-Diketiminato Ligand Sets. Organometallics, 2004, 23, 4995-5002.	2.3	31
44	Complexes of the heavier alkaline earth metals containing Î²-diketiminato and iodide ligand sets. Polyhedron, 2006, 25, 224-234.	2.2	26
45	Synthesis, Structure, and Ligand Redistribution Equilibria of Mixed Ligand Complexes of the Heavier Group 2 Elements Containing Pyrazolato andÎ²-Diketiminato Ligands. European Journal of Inorganic Chemistry, 2005, 2005, 2081-2088.	2.0	21
46	Iron-based sulfur and nitrogen dual doped porous carbon as durable electrocatalysts for oxygen reduction reaction. International Journal of Hydrogen Energy, 2022, 47, 6078-6088.	7.1	21
47	Synthesis, structure and properties of monomeric strontium and barium complexes containing terminal Î·2-3,5-di-tert-butylpyrazolato ligands. Polyhedron, 2005, 24, 645-653.	2.2	20
48	Incorporation of benzimidazole linked polymers into Matrimid to yield mixed matrix membranes with enhanced CO2/N2 selectivity. Journal of Membrane Science, 2018, 554, 90-96.	8.2	20
49	Multifunctional Electrocatalytic Cathodes Derived from Metalâ€“Organic Frameworks for Advanced Lithiumâ€“Sulfur Batteries. Chemistry - A European Journal, 2020, 26, 13896-13903.	3.3	19
50	Iron Phosphide Doped, Porous Carbon as an Efficient Electrocatalyst for Oxygen Reduction Reaction. ACS Applied Energy Materials, 2020, 3, 2537-2546.	5.1	18
51	Pyrene Bearing Azo-Functionalized Porous Nanofibers for CO₂ Separation and Toxic Metal Cation Sensing. ACS Omega, 2018, 3, 15510-15518.	3.5	17
52	Highly porous and photoluminescent pyrene-quinoxaline-derived benzimidazole-linked polymers. Journal of Materials Chemistry A, 2015, 3, 3006-3010.	10.3	16
53	Highly porous photoluminescent diazaborole-linked polymers: synthesis, characterization, and application to selective gas adsorption. Polymer Chemistry, 2017, 8, 2509-2515.	3.9	11
54	Impact of tailored chemical and textural properties on the performance of nanoporous borazine-linked polymers in small gas uptake and selective binding. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	9

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55	Heteroatom-Doped Porous Carbons as Effective Adsorbers for Toxic Industrial Gasses. ACS Applied Materials & Interfaces, 2022, 14, 33173-33180.	8.0	8
56	Electrocatalytic Cathodes Based on Cobalt Nanoparticles Supported on Nitrogen-Doped Porous Carbon by Strong Electrostatic Adsorption for Advanced Lithiumâ€“Sulfur Batteries. Energy & Fuels, 2020, 34, 13038-13047.	5.1	6
57	Surface Modification of Partially Reduced Graphene Oxide for Advanced Electrode Material in Rechargeable Sodium Batteries. Energy & Fuels, 2022, 36, 4967-4977.	5.1	6