

Hani M El-Kaderi

List of Publications by Year in descending order

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57
papers

7,833
citations

87888

38
h-index

144013

57
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58
docs citations

58
times ranked

7266
citing authors

#	ARTICLE	IF	CITATIONS
1	Iron-based sulfur and nitrogen dual doped porous carbon as durable electrocatalysts for oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 6078-6088.	7.1	21
2	Surface Modification of Partially Reduced Graphene Oxide for Advanced Electrode Material in Rechargeable Sodium Batteries. <i>Energy & Fuels</i> , 2022, 36, 4967-4977.	5.1	6
3	Heteroatom-Doped Porous Carbons as Effective Adsorbers for Toxic Industrial Gasses. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 33173-33180.	8.0	8
4	Exceptional Sodium-Ion Storage by an Aza-Covalent Organic Framework for High Energy and Power Density Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 15083-15091.	8.0	67
5	Electrocatalytic Cathodes Based on Cobalt Nanoparticles Supported on Nitrogen-Doped Porous Carbon by Strong Electrostatic Adsorption for Advanced Lithium-Sulfur Batteries. <i>Energy & Fuels</i> , 2020, 34, 13038-13047.	5.1	6
6	Heterogeneous catalysis by ultra-small bimetallic nanoparticles surpassing homogeneous catalysis for carbon-carbon bond forming reactions. <i>Nanoscale</i> , 2020, 12, 19191-19202.	5.6	33
7	Multifunctional Electrocatalytic Cathodes Derived from Metal-Organic Frameworks for Advanced Lithium-Sulfur Batteries. <i>Chemistry - A European Journal</i> , 2020, 26, 13896-13903.	3.3	19
8	Iron Phosphide Doped, Porous Carbon as an Efficient Electrocatalyst for Oxygen Reduction Reaction. <i>ACS Applied Energy Materials</i> , 2020, 3, 2537-2546.	5.1	18
9	Redox-Active Porous Organic Polymers as Novel Electrode Materials for Green Rechargeable Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 23520-23526.	8.0	73
10	Incorporation of benzimidazole linked polymers into Matrimid to yield mixed matrix membranes with enhanced CO ₂ /N ₂ selectivity. <i>Journal of Membrane Science</i> , 2018, 554, 90-96.	8.2	20
11	Nitrogen-Rich Porous Polymers for Carbon Dioxide and Iodine Sequestration for Environmental Remediation. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 16049-16058.	8.0	134
12	Lignin-derived heteroatom-doped porous carbons for supercapacitor and CO ₂ capture applications. <i>International Journal of Energy Research</i> , 2018, 42, 2686-2700.	4.5	94
13	Rapid transformation of heterocyclic building blocks into nanoporous carbons for high-performance supercapacitors. <i>RSC Advances</i> , 2018, 8, 12300-12309.	3.6	38
14	Nitrogen and oxygen dual-doped porous carbons prepared from pea protein as electrode materials for high performance supercapacitors. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 18549-18558.	7.1	71
15	Pyrene Bearing Azo-Functionalized Porous Nanofibers for CO ₂ Separation and Toxic Metal Cation Sensing. <i>ACS Omega</i> , 2018, 3, 15510-15518.	3.5	17
16	Rapid Formation of Metal-Organic Frameworks (MOFs) Based Nanocomposites in Microdroplets and Their Applications for CO ₂ Photoreduction. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 9688-9698.	8.0	91
17	Highly porous photoluminescent diazaborole-linked polymers: synthesis, characterization, and application to selective gas adsorption. <i>Polymer Chemistry</i> , 2017, 8, 2509-2515.	3.9	11
18	Effective Approach for Increasing the Heteroatom Doping Levels of Porous Carbons for Superior CO ₂ Capture and Separation Performance. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 35802-35810.	8.0	61

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19	Benzothiazole- and benzoxazole-linked porous polymers for carbon dioxide storage and separation. <i>Journal of Materials Chemistry A</i> , 2017, 5, 258-265.	10.3	87
20	Enhanced Carbon Dioxide Capture from Landfill Gas Using Bifunctionalized Benzimidazole-Linked Polymers. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 14648-14655.	8.0	76
21	A cost-effective synthesis of heteroatom-doped porous carbons as efficient CO ₂ sorbents. <i>Journal of Materials Chemistry A</i> , 2016, 4, 14693-14702.	10.3	90
22	Systematic Postsynthetic Modification of Nanoporous Organic Frameworks for Enhanced CO ₂ Capture from Flue Gas and Landfill Gas. <i>Journal of Physical Chemistry C</i> , 2016, 120, 2592-2599.	3.1	69
23	From Azo-Linked Polymers to Microporous Heteroatom-Doped Carbons: Tailored Chemical and Textural Properties for Gas Separation. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 8491-8501.	8.0	39
24	Exceptional Gas Adsorption Properties by Nitrogen-Doped Porous Carbons Derived from Benzimidazole-Linked Polymers. <i>Chemistry of Materials</i> , 2015, 27, 1349-1358.	6.7	220
25	Highly porous and photoluminescent pyrene-quinoxaline-derived benzimidazole-linked polymers. <i>Journal of Materials Chemistry A</i> , 2015, 3, 3006-3010.	10.3	16
26	An ultra-microporous organic polymer for high performance carbon dioxide capture and separation. <i>Chemical Communications</i> , 2015, 51, 13393-13396.	4.1	71
27	Effect of Acid-Catalyzed Formation Rates of Benzimidazole-Linked Polymers on Porosity and Selective CO ₂ Capture from Gas Mixtures. <i>Environmental Science & Technology</i> , 2015, 49, 4715-4723.	10.0	41
28	Synthesis of a Highly Porous Bis(imino)pyridine-Linked Polymer and Its Postsynthetic Modification with Inorganic Fluorinated Ions for Selective CO ₂ Capture. <i>Journal of Physical Chemistry C</i> , 2015, 119, 8174-8182.	3.1	32
29	Graphitic Biocarbon from Metal-Catalyzed Hydrothermal Carbonization of Lignin. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 10731-10739.	3.7	107
30	Synthesis and evaluation of porous azo-linked polymers for carbon dioxide capture and separation. <i>Journal of Materials Chemistry A</i> , 2015, 3, 20586-20594.	10.3	84
31	Highly Selective CO ₂ Capture by Triazine-Based Benzimidazole-Linked Polymers. <i>Macromolecules</i> , 2014, 47, 8328-8334.	4.8	141
32	Copper(I)-Catalyzed Synthesis of Nanoporous Azo-Linked Polymers: Impact of Textural Properties on Gas Storage and Selective Carbon Dioxide Capture. <i>Chemistry of Materials</i> , 2014, 26, 1385-1392.	6.7	276
33	New insights into carbon dioxide interactions with benzimidazole-linked polymers. <i>Chemical Communications</i> , 2014, 50, 3571-3574.	4.1	51
34	Application of pyrene-derived benzimidazole-linked polymers to CO ₂ separation under pressure and vacuum swing adsorption settings. <i>Journal of Materials Chemistry A</i> , 2014, 2, 12492-12500.	10.3	85
35	A 2D Mesoporous Imine-Linked Covalent Organic Framework for High Pressure Gas Storage Applications. <i>Chemistry - A European Journal</i> , 2013, 19, 3324-3328.	3.3	380
36	Impact of post-synthesis modification of nanoporous organic frameworks on small gas uptake and selective CO ₂ capture. <i>Journal of Materials Chemistry A</i> , 2013, 1, 10259.	10.3	134

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37	Impact of tailored chemical and textural properties on the performance of nanoporous borazine-linked polymers in small gas uptake and selective binding. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	9
38	Targeted synthesis of a mesoporous triptycene-derived covalent organic framework. <i>CrystEngComm</i> , 2013, 15, 1524-1527.	2.6	131
39	High CO ₂ uptake and selectivity by triptycene-derived benzimidazole-linked polymers. <i>Chemical Communications</i> , 2012, 48, 1141-1143.	4.1	217
40	Targeted synthesis of a porous borazine-linked covalent organic framework. <i>Chemical Communications</i> , 2012, 48, 8823.	4.1	200
41	Synthesis and Characterization of Porous Benzimidazole-Linked Polymers and Their Performance in Small Gas Storage and Selective Uptake. <i>Chemistry of Materials</i> , 2012, 24, 1511-1517.	6.7	433
42	Highly selective CO ₂ /CH ₄ gas uptake by a halogen-decorated borazine-linked polymer. <i>Journal of Materials Chemistry</i> , 2012, 22, 13524.	6.7	95
43	Pyrene-directed growth of nanoporous benzimidazole-linked nanofibers and their application to selective CO ₂ capture and separation. <i>Journal of Materials Chemistry</i> , 2012, 22, 25409.	6.7	138
44	Synthesis of highly porous borazine-linked polymers and their application to H ₂ , CO ₂ , and CH ₄ storage. <i>Polymer Chemistry</i> , 2011, 2, 2775.	3.9	77
45	Template-Free Synthesis of a Highly Porous Benzimidazole-Linked Polymer for CO ₂ Capture and H ₂ Storage. <i>Chemistry of Materials</i> , 2011, 23, 1650-1653.	6.7	390
46	Synthesis and characterization of highly porous borazine-linked polymers and their performance in hydrogen storage application. <i>Journal of Materials Chemistry</i> , 2011, 21, 10629.	6.7	57
47	Nickel-catalyzed synthesis of nanoporous organic frameworks and their potential use in gas storage applications. <i>Research on Chemical Intermediates</i> , 2011, 37, 747-757.	2.7	38
48	Metallic and bimetallic nanocatalysts incorporated into highly porous coordination polymer MIL-101. <i>Journal of Materials Chemistry</i> , 2009, 19, 7625.	6.7	277
49	Reticular Synthesis of Microporous and Mesoporous 2D Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2007, 129, 12914-12915.	13.7	682
50	Designed Synthesis of 3D Covalent Organic Frameworks. <i>Science</i> , 2007, 316, 268-272.	12.6	2,024
51	Complexes of the heavier alkaline earth metals containing $\hat{1}^2$ -diketiminato and iodide ligand sets. <i>Polyhedron</i> , 2006, 25, 224-234.	2.2	26
52	Synthesis, structure and properties of monomeric strontium and barium complexes containing terminal $\hat{1}^2$ -3,5-di-tert-butylpyrazolato ligands. <i>Polyhedron</i> , 2005, 24, 645-653.	2.2	20
53	Synthesis, Structure, and Ligand Redistribution Equilibria of Mixed Ligand Complexes of the Heavier Group 2 Elements Containing Pyrazolato and $\hat{1}^2$ -Diketiminato Ligands. <i>European Journal of Inorganic Chemistry</i> , 2005, 2005, 2081-2088.	2.0	21
54	Synthesis, structure and properties of volatile lanthanide complexes containing amidinate ligands: application for Er ₂ O ₃ thin film growth by atomic layer deposition. <i>Journal of Materials Chemistry</i> , 2005, 15, 4224.	6.7	64

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55	Sandwich Complexes of the Heavier Alkaline Earth Metals Containing $\hat{1}$ -5- $\hat{1}$ -2-Diketiminato Ligand Sets. <i>Organometallics</i> , 2004, 23, 4995-5002.	2.3	31
56	Factors that Influence $\hat{1}$ - versus $\hat{1}$ -2-Coordination of $\hat{1}$ -2-Diketiminato Ligands in Magnesium Complexes. <i>Organometallics</i> , 2004, 23, 3488-3495.	2.3	48
57	Synthesis, structure, and properties of magnesium complexes containing cyclopentadienyl and amidinate ligand sets. <i>Journal of Organometallic Chemistry</i> , 2003, 682, 224-232.	1.8	68