

Kolleboyina Jayaramulu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9538128/publications.pdf>

Version: 2024-02-01

59
papers

5,073
citations

101384

36
h-index

133063

59
g-index

60
all docs

60
docs citations

60
times ranked

7148
citing authors

#	ARTICLE	IF	CITATIONS
1	True Meaning of Pseudocapacitors and Their Performance Metrics: Asymmetric versus Hybrid Supercapacitors. <i>Small</i> , 2020, 16, e2002806.	5.2	405
2	Biomimetic Superhydrophobic/Superoleophilic Highly Fluorinated Graphene Oxide and ZIF-8 Composites for Oil-Water Separation. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 1178-1182.	7.2	370
3	Ultrathin Hierarchical Porous Carbon Nanosheets for High-Performance Supercapacitors and Redox Electrolyte Energy Storage. <i>Advanced Materials</i> , 2018, 30, e1705789.	11.1	309
4	Hybrid nanocomposites of ZIF-8 with graphene oxide exhibiting tunable morphology, significant CO ₂ uptake and other novel properties. <i>Chemical Communications</i> , 2013, 49, 4947.	2.2	269
5	Supramolecular Hydrogels and High-Aspect-Ratio Nanofibers through Charge-Transfer-Induced Alternate Coassembly. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 4218-4222.	7.2	253
6	Temperature Induced Structural Transformations and Gas Adsorption in the Zeolitic Imidazolate Framework ZIF-8: A Raman Study. <i>Journal of Physical Chemistry A</i> , 2013, 117, 11006-11012.	1.1	212
7	Luminescent Microporous Metal-Organic Framework with Functional Lewis Basic Sites on the Pore Surface: Specific Sensing and Removal of Metal Ions. <i>Inorganic Chemistry</i> , 2012, 51, 10089-10091.	1.9	203
8	Nanoporous Nitrogen-Doped Graphene Oxide/Nickel Sulfide Composite Sheets Derived from a Metal-Organic Framework as an Efficient Electrocatalyst for Hydrogen and Oxygen Evolution. <i>Advanced Functional Materials</i> , 2017, 27, 1700451.	7.8	198
9	Tunable emission from a porous metal-organic framework by employing an excited-state intramolecular proton transfer responsive ligand. <i>Chemical Communications</i> , 2010, 46, 7906.	2.2	170
10	Shape Controlled Hierarchical Porous Hydrophobic/Oleophilic Metal-Organic Nanofibrous Gel Composites for Oil Adsorption. <i>Advanced Materials</i> , 2017, 29, 1605307.	11.1	155
11	Low Overpotential Water Splitting Using Cobalt-Cobalt Phosphide Nanoparticles Supported on Nickel Foam. <i>ACS Energy Letters</i> , 2016, 1, 1192-1198.	8.8	143
12	Metal-Organic Framework (MOF) Derived Electrodes with Robust and Fast Lithium Storage for Li-Ion Hybrid Capacitors. <i>Advanced Functional Materials</i> , 2019, 29, 1900532.	7.8	141
13	Human virus detection with graphene-based materials. <i>Biosensors and Bioelectronics</i> , 2020, 166, 112436.	5.3	140
14	Hydrophobic Metal-Organic Frameworks. <i>Advanced Materials</i> , 2019, 31, e1900820.	11.1	138
15	Covalent Graphene-MOF Hybrids for High-Performance Asymmetric Supercapacitors. <i>Advanced Materials</i> , 2021, 33, e2004560.	11.1	121
16	A bimodal anionic MOF: turn-off sensing of Cu ^{II} and specific sensitization of Eu ^{III} . <i>Chemical Communications</i> , 2014, 50, 13567-13570.	2.2	120
17	Shape-Assisted 2D MOF/Graphene Derived Hybrids as Exceptional Lithium-Ion Battery Electrodes. <i>Advanced Functional Materials</i> , 2019, 29, 1902539.	7.8	118
18	Synthesis of nano-porous carbon and nitrogen doped carbon dots from an anionic MOF: a trace cobalt metal residue in carbon dots promotes electrocatalytic ORR activity. <i>Journal of Materials Chemistry A</i> , 2017, 5, 13573-13580.	5.2	96

#	ARTICLE	IF	CITATIONS
19	Ultrathin 2D Cobalt Zeolite@Imidazole Framework Nanosheets for Electrocatalytic Oxygen Evolution. <i>Advanced Science</i> , 2018, 5, 1801029.	5.6	92
20	Emerging MXene@Metal-Organic Framework Hybrids: Design Strategies toward Versatile Applications. <i>ACS Nano</i> , 2021, 15, 18742-18776.	7.3	81
21	Unveiling BiVO ₄ nanorods as a novel anode material for high performance lithium ion capacitors: beyond intercalation strategies. <i>Journal of Materials Chemistry A</i> , 2018, 6, 6096-6106.	5.2	78
22	Growth of 2D sheets of a MOF on graphene surfaces to yield composites with novel gas adsorption characteristics. <i>Dalton Transactions</i> , 2014, 43, 7383.	1.6	69
23	Three-Dimensional Metal-Organic Framework with Highly Polar Pore Surface: H ₂ and CO ₂ Storage Characteristics. <i>Inorganic Chemistry</i> , 2012, 51, 7103-7111.	1.9	66
24	Redox-Active Metal-Organic Frameworks: Highly Stable Charge-Separated States through Strut/Guest-to-Strut Electron Transfer. <i>Chemistry - A European Journal</i> , 2015, 21, 11701-11706.	1.7	60
25	Binder driven self-assembly of metal-organic cubes towards functional hydrogels. <i>Nature Communications</i> , 2018, 9, 3587.	5.8	59
26	Rational Design of Graphene Derivatives for Electrochemical Reduction of Nitrogen to Ammonia. <i>ACS Nano</i> , 2021, 15, 17275-17298.	7.3	48
27	Hierarchical porous metal-organic framework materials for efficient oil-water separation. <i>Journal of Materials Chemistry A</i> , 2022, 10, 2751-2785.	5.2	48
28	Spontaneous self-assembly of designed cyclic dipeptide (Phg-Phg) into two-dimensional nano- and mesosheets. <i>Supramolecular Chemistry</i> , 2011, 23, 487-492.	1.5	46
29	Metal Halide Perovskite@Metal-Organic Framework Hybrids: Synthesis, Design, Properties, and Applications. <i>Small</i> , 2020, 16, e2004891.	5.2	46
30	Two-dimensional Conducting Metal-Organic Frameworks Enabled Energy Storage Devices. <i>Energy Storage Materials</i> , 2021, 37, 396-416.	9.5	44
31	Cyclodextrin metal-organic frameworks and derivatives: recent developments and applications. <i>Chemical Society Reviews</i> , 2022, 51, 5175-5213.	18.7	44
32	Metal-Organic Frameworks: Hydrophobic Metal-Organic Frameworks (<i>Adv. Mater.</i> 32/2019). <i>Advanced Materials</i> , 2019, 31, 1970230.	11.1	40
33	Honeycomb Porous Framework of Zinc(II): Effective Host for Palladium Nanoparticles for Efficient Three-Component (A ₃) Coupling and Selective Gas Storage. <i>ChemPlusChem</i> , 2012, 77, 743-747.	1.3	38
34	Hierarchical Porous Fluorinated Graphene Oxide@Metal-Organic Gel Composite: Label-Free Electrochemical Aptasensor for Selective Detection of Thrombin. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 41089-41097.	4.0	38
35	Stabilization of Cu ₂ O nanoparticles on a 2D metal-organic framework for catalytic Huisgen 1,3-dipolar cycloaddition reaction. <i>Dalton Transactions</i> , 2015, 44, 83-86.	1.6	36
36	Large interspaced layered potassium niobate nanosheet arrays as an ultrastable anode for potassium ion capacitor. <i>Energy Storage Materials</i> , 2021, 34, 475-482.	9.5	33

#	ARTICLE	IF	CITATIONS
37	Carbon Nanotube Based Metal-Organic Framework Hybrids From Fundamentals Toward Applications. <i>Small</i> , 2022, 18, e2104628.	5.2	33
38	In-situ Stabilization of Tin Nanoparticles in Porous Carbon Matrix derived from Metal Organic Framework: High Capacity and High Rate Capability Anodes for Lithium-ion Batteries. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2014, 640, 1115-1118.	0.6	29
39	An in situ porous cuprous oxide/nitrogen-rich graphitic carbon nanocomposite derived from a metal-organic framework for visible light driven hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2016, 4, 18037-18042.	5.2	27
40	A multifunctional covalently linked graphene-MOF hybrid as an effective chemiresistive gas sensor. <i>Journal of Materials Chemistry A</i> , 2021, 9, 17434-17441.	5.2	26
41	Metal-organic framework/conductive polymer hybrid materials for supercapacitors. <i>Applied Materials Today</i> , 2022, 26, 101387.	2.3	26
42	Supercapacitors operated at extremely low environmental temperatures. <i>Journal of Materials Chemistry A</i> , 2021, 9, 26603-26627.	5.2	25
43	Controlled synthesis of tunable nanoporous carbons for gas storage and supercapacitor application. <i>Microporous and Mesoporous Materials</i> , 2015, 206, 127-135.	2.2	20
44	Nanostructured NaFeS ₂ as a cost-effective and robust electrocatalyst for hydrogen and oxygen evolution with reduced overpotentials. <i>Chemical Engineering Journal</i> , 2021, 426, 131315.	6.6	20
45	Two-dimensional MOF-based liquid marbles: surface energy calculations and efficient oil-water separation using a ZIF-9-III@PVDF membrane. <i>Journal of Materials Chemistry A</i> , 2021, 9, 23651-23659.	5.2	20
46	Shape assisted fabrication of fluorescent cages of squarate based metal-organic coordination frameworks. <i>Chemical Communications</i> , 2013, 49, 3937.	2.2	17
47	Recent advancements in metal-organic frameworks integrating quantum dots (QDs@MOF) and their potential applications. <i>Nanotechnology Reviews</i> , 2022, 11, 1947-1976.	2.6	17
48	A Nanoporous Borocarbonitride (BC ₄ N) with Novel Properties Derived from a Boron-Imidazolate-Based Metal-Organic Framework. <i>Chemistry - A European Journal</i> , 2013, 19, 6966-6970.	1.7	16
49	Biomimetische superhydrophobe/superoleophile hoch fluorierte Graphenoxid-ZIF-Komposite für die Öl-Wasser-Trennung. <i>Angewandte Chemie</i> , 2016, 128, 1193-1197.	1.6	16
50	Charge-Transfer Nanostructures through Noncovalent Amphiphilic Self-Assembly: Extended Cofacial Donor-Acceptor Arrays. <i>Asian Journal of Organic Chemistry</i> , 2014, 3, 161-169.	1.3	9
51	Asymmetric Supercapacitors: Covalent Graphene-MOF Hybrids for High-Performance Asymmetric Supercapacitors (<i>Adv. Mater.</i> 4/2021). <i>Advanced Materials</i> , 2021, 33, 2170028.	11.1	8
52	Ultrafine TiO ₂ Nanoparticle Supported Nitrogen-Rich Graphitic Porous Carbon as an Efficient Anode Material for Potassium-ion Batteries. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2100042.	2.8	8
53	Hierarchical Porous Graphene-Iron Carbide Hybrid Derived From Functionalized Graphene-Based Metal-Organic Gel as Efficient Electrochemical Dopamine Sensor. <i>Frontiers in Chemistry</i> , 2020, 8, 544.	1.8	6
54	Self-assembly of tetrabromoterephthalic acid with different metal system: Diversity in dimensionalities, structures and gas adsorption. <i>Polyhedron</i> , 2013, 52, 553-559.	1.0	4

#	ARTICLE	IF	CITATIONS
55	Hetero Metal-Organic Hybrids as Highly Active Peroxidase Mimics for Biosensing Application. ChemistrySelect, 2021, 6, 5140-5147.	0.7	3
56	2D Metal-Organic Frameworks: Ultrathin 2D Cobalt Zeolite-Imidazole Framework Nanosheets for Electrocatalytic Oxygen Evolution (Adv. Sci. 11/2018). Advanced Science, 2018, 5, 1870072.	5.6	1
57	MHP@MOF Hybrids: Metal Halide Perovskite@Metal-Organic Framework Hybrids: Synthesis, Design, Properties, and Applications (Small 47/2020). Small, 2020, 16, 2070258.	5.2	1
58	Electrocatalysis: Nanoporous Nitrogen-Doped Graphene Oxide/Nickel Sulfide Composite Sheets Derived from a Metal-Organic Framework as an Efficient Electrocatalyst for Hydrogen and Oxygen Evolution (Adv. Funct. Mater. 33/2017). Advanced Functional Materials, 2017, 27, .	7.8	1
59	Carbon Nanotube Based Metal-Organic Framework Hybrids From Fundamentals Toward Applications (Small 4/2022). Small, 2022, 18, .	5.2	0