

Pravas Deria

List of Publications by Year in descending order

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61
papers

6,128
citations

94269

37
h-index

118652

62
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64
all docs

64
docs citations

64
times ranked

7829
citing authors

#	ARTICLE	IF	CITATIONS
1	Beyond post-synthesis modification: evolution of metal-organic frameworks via building block replacement. <i>Chemical Society Reviews</i> , 2014, 43, 5896-5912.	18.7	721
2	Fe-Porphyrin-Based Metal-Organic Framework Films as High-Surface Concentration, Heterogeneous Catalysts for Electrochemical Reduction of CO ₂ . <i>ACS Catalysis</i> , 2015, 5, 6302-6309.	5.5	639
3	Perfluoroalkane Functionalization of NU-1000 via Solvent-Assisted Ligand Incorporation: Synthesis and CO ₂ Adsorption Studies. <i>Journal of the American Chemical Society</i> , 2013, 135, 16801-16804.	6.6	473
4	Ultrahigh Surface Area Zirconium MOFs and Insights into the Applicability of the BET Theory. <i>Journal of the American Chemical Society</i> , 2015, 137, 3585-3591.	6.6	329
5	Directed Growth of Electroactive Metal-Organic Framework Thin Films Using Electrophoretic Deposition. <i>Advanced Materials</i> , 2014, 26, 6295-6300.	11.1	265
6	A porous proton-relaying metal-organic framework material that accelerates electrochemical hydrogen evolution. <i>Nature Communications</i> , 2015, 6, 8304.	5.8	239
7	In silico discovery of metal-organic frameworks for precombustion CO ₂ capture using a genetic algorithm. <i>Science Advances</i> , 2016, 2, e1600909.	4.7	231
8	Framework-Topology-Dependent Catalytic Activity of Zirconium-Based (Porphinato)zinc(II) MOFs. <i>Journal of the American Chemical Society</i> , 2016, 138, 14449-14457.	6.6	210
9	Versatile functionalization of the NU-1000 platform by solvent-assisted ligand incorporation. <i>Chemical Communications</i> , 2014, 50, 1965.	2.2	208
10	Synthesis of nanocrystals of Zr-based metal-organic frameworks with csq-net: significant enhancement in the degradation of a nerve agent simulant. <i>Chemical Communications</i> , 2015, 51, 10925-10928.	2.2	194
11	MOF Functionalization via Solvent-Assisted Ligand Incorporation: Phosphonates vs Carboxylates. <i>Inorganic Chemistry</i> , 2015, 54, 2185-2192.	1.9	177
12	Helical Wrapping of Single-Walled Carbon Nanotubes by Water Soluble Poly(<i>p</i> -phenyleneethynylene). <i>Nano Letters</i> , 2009, 9, 1414-1418.	4.5	162
13	Ultraporous, Water Stable, and Breathing Zirconium-Based Metal-Organic Frameworks with ftw Topology. <i>Journal of the American Chemical Society</i> , 2015, 137, 13183-13190.	6.6	149
14	Ground-State versus Excited-State Interchromophoric Interaction: Topology Dependent Excimer Contribution in Metal-Organic Framework Photophysics. <i>Journal of the American Chemical Society</i> , 2017, 139, 5973-5983.	6.6	122
15	Bias-Switchable Permselectivity and Redox Catalytic Activity of a Ferrocene-Functionalized, Thin-Film Metal-Organic Framework Compound. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 586-591.	2.1	120
16	Excited-State Electronic Properties in Zr-Based Metal-Organic Frameworks as a Function of a Topological Network. <i>Journal of the American Chemical Society</i> , 2018, 140, 10488-10496.	6.6	107
17	Water stabilization of Zr ₆ -based metal-organic frameworks via solvent-assisted ligand incorporation. <i>Chemical Science</i> , 2015, 6, 5172-5176.	3.7	102
18	Wavelength-Dependent Energy and Charge Transfer in MOF: A Step toward Artificial Porous Light-Harvesting System. <i>Journal of the American Chemical Society</i> , 2019, 141, 16849-16857.	6.6	93

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19	Effect of Solvent Polarity and Electrophilicity on Quantum Yields and Solvatochromic Shifts of Single-Walled Carbon Nanotube Photoluminescence. <i>Journal of the American Chemical Society</i> , 2012, 134, 12485-12491.	6.6	91
20	Post-Synthetically Elaborated BODIPY-Based Porous Organic Polymers (POPs) for the Photochemical Detoxification of a Sulfur Mustard Simulant. <i>Journal of the American Chemical Society</i> , 2020, 142, 18554-18564.	6.6	88
21	A thermodynamic tank model for studying the effect of higher hydrocarbons on natural gas storage in metal-organic frameworks. <i>Energy and Environmental Science</i> , 2015, 8, 1501-1510.	15.6	84
22	Electrochemically addressable trisradical rotaxanes organized within a metal-organic framework. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 11161-11168.	3.3	83
23	Charge-Transfer within Zr-Based Metal-Organic Framework: The Role of Polar Node. <i>Journal of the American Chemical Society</i> , 2018, 140, 2756-2760.	6.6	78
24	Anthracene-Triphenylamine-Based Platinum(II) Metallacages as Synthetic Light-Harvesting Assembly. <i>Journal of the American Chemical Society</i> , 2021, 143, 2908-2919.	6.6	76
25	Topology-dependent emissive properties of zirconium-based porphyrin MOFs. <i>Chemical Communications</i> , 2016, 52, 13031-13034.	2.2	69
26	Single-Handed Helical Wrapping of Single-Walled Carbon Nanotubes by Chiral, Ionic, Semiconducting Polymers. <i>Journal of the American Chemical Society</i> , 2013, 135, 16220-16234.	6.6	68
27	Dynamics and Transient Absorption Spectral Signatures of the Single-Wall Carbon Nanotube Electronically Excited Triplet State. <i>Journal of the American Chemical Society</i> , 2011, 133, 17156-17159.	6.6	66
28	Functionalised cyclodextrin-based metal-organic frameworks. <i>Chemical Communications</i> , 2017, 53, 7561-7564.	2.2	55
29	Physical properties of porphyrin-based crystalline metal-organic frameworks. <i>Communications Chemistry</i> , 2021, 4, .	2.0	54
30	Composite Electronic Materials Based on Poly(3,4-propylenedioxythiophene) and Highly Charged Poly(aryleneethynylene)-Wrapped Carbon Nanotubes for Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 102-109.	4.0	51
31	Selective Solvent-Assisted Linker Exchange (SALE) in a Series of Zeolitic Imidazolate Frameworks. <i>Inorganic Chemistry</i> , 2015, 54, 7142-7144.	1.9	49
32	Improving Energy Transfer within Metal-Organic Frameworks by Aligning Linker Transition Dipoles along the Framework Axis. <i>Journal of the American Chemical Society</i> , 2020, 142, 11192-11202.	6.6	48
33	A MOF platform for incorporation of complementary organic motifs for CO ₂ binding. <i>Chemical Communications</i> , 2015, 51, 12478-12481.	2.2	45
34	One Electron Changes Everything. A Multispecies Copper Redox Shuttle for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2016, 120, 3731-3740.	1.5	45
35	Light-Harvesting in Porous Crystalline Compositions: Where We Stand toward Robust Metal-Organic Frameworks. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 1841-1854.	3.2	43
36	Phase Transfer Catalysts Drive Diverse Organic Solvent Solubility of Single-Walled Carbon Nanotubes Helically Wrapped by Ionic, Semiconducting Polymers. <i>Nano Letters</i> , 2010, 10, 4192-4199.	4.5	40

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37	Controlling Charge-Transport in Metal-Organic Frameworks: Contribution of Topological and Spin-State Variation on the Iron-Porphyrin Centered Redox Hopping Rate. <i>Journal of Physical Chemistry B</i> , 2019, 123, 8814-8822.	1.2	40
38	Light-Harvesting Antenna-Behavior in NU-1000. <i>ACS Energy Letters</i> , 2021, 6, 848-853.	8.8	40
39	Origins of the Helical Wrapping of Phenyleneethynylene Polymers about Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 2013, 117, 12953-12965.	1.2	35
40	Synthesis of Water-Soluble Poly(<i>p</i> -phenyleneethynylene) in Neat Water under Aerobic Conditions via Suzuki-Miyaura Polycondensation Using a Diborylethyne Synthon. <i>Organic Letters</i> , 2008, 10, 1341-1344.	2.4	33
41	Photoinduced Charge Transfer with a Small Driving Force Facilitated by Exciplex-like Complex Formation in Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2021, 143, 15286-15297.	6.6	30
42	Fluence-Dependent Singlet Exciton Dynamics in Length-Sorted Chirality-Enriched Single-Walled Carbon Nanotubes. <i>Nano Letters</i> , 2014, 14, 504-511.	4.5	27
43	Visible and near-infrared excited-state dynamics of single-walled carbon nanotubes. <i>Applied Physics A: Materials Science and Processing</i> , 2004, 79, 1747-1751.	1.1	26
44	Potentiometric, Electronic, and Transient Absorptive Spectroscopic Properties of Oxidized Single-Walled Carbon Nanotubes Helically Wrapped by Ionic, Semiconducting Polymers in Aqueous and Organic Media. <i>Journal of the American Chemical Society</i> , 2014, 136, 14193-14199.	6.6	23
45	The role of photoinduced charge transfer for photocatalysis, photoelectrocatalysis and luminescence sensing in metal-organic frameworks. <i>Dalton Transactions</i> , 2020, 49, 12892-12917.	1.6	23
46	Supramolecular Porous Organic Nanocomposites for Heterogeneous Photocatalysis of a Sulfur Mustard Simulant. <i>Advanced Materials</i> , 2020, 32, e2001592.	11.1	23
47	Superradiance and Directional Exciton Migration in Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2022, 144, 1396-1406.	6.6	22
48	Metalated hybrid polymers as catalytic reagents for phosphate ester hydrolysis and plasmid modification. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004, 14, 1559-1562.	1.0	18
49	High-Surface-Area Architectures for Improved Charge Transfer Kinetics at the Dark Electrode in Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 8646-8650.	4.0	17
50	Unambiguous Diagnosis of Photoinduced Charge Carrier Signatures in a Stoichiometrically Controlled Semiconducting Polymer-Wrapped Carbon Nanotube Assembly. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 8133-8138.	7.2	17
51	Ionic Self-Assembly Provides Dense Arrays of Individualized, Aligned Single-Walled Carbon Nanotubes. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 13080-13085.	7.2	16
52	Raman Spectroscopic Investigation of Individual Single-Walled Carbon Nanotubes Helically Wrapped by Ionic, Semiconducting Polymers. <i>Journal of Physical Chemistry C</i> , 2013, 117, 14840-14849.	1.5	15
53	Metal-Organic Frameworks-Based Electrocatalysis: Insight and Future Perspectives. <i>Comments on Inorganic Chemistry</i> , 2018, 38, 166-209.	3.0	9
54	Unambiguous Diagnosis of Photoinduced Charge Carrier Signatures in a Stoichiometrically Controlled Semiconducting Polymer-Wrapped Carbon Nanotube Assembly. <i>Angewandte Chemie</i> , 2015, 127, 8251-8256.	1.6	8

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55	First-order hyperpolarizabilities of chiral, polymer-wrapped single-walled carbon nanotubes. <i>Chemical Communications</i> , 2016, 52, 12206-12209.	2.2	6
56	Charge Transfer within Metal-Organic Frameworks: The Role of Polar Node in the Electrocatalysis and Charge Storage. <i>ECS Transactions</i> , 2018, 85, 559-564.	0.3	6
57	BODIPY-Based Polymers of Intrinsic Microporosity for the Photocatalytic Detoxification of a Chemical Threat. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 12596-12605.	4.0	6
58	Evaluation of Composite Electronic Materials Based upon Single-Wall Carbon Nanotubes and Highly Charged Poly(aryleneethynylene)s for Supercapacitor Applications. <i>ECS Transactions</i> , 2008, 16, 93-101.	0.3	4
59	Composite Electronic Materials for Supercapacitor Applications. <i>ECS Transactions</i> , 2009, 23, 3-10.	0.3	1
60	Unusual solvent polarity dependent excitation relaxation dynamics of a bis(<i>p</i> -ethynylthiobenzoato)Pd-linked bis((porphinato)zinc) complex. <i>Molecular Systems Design and Engineering</i> , 2018, 3, 275-284.	1.7	1
61	Tuning Redox Hopping Charge-Transport in Metal-Organic Frameworks. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 782-782.	0.0	0