Pravas Deria

List of Publications by Year
in descending order

61 papers	6,128 citations	94269 37 h-index	118652 62 g-index
64 all docs	64 docs citations	64 times ranked	7829 citing authors

#	Article	IF	Citations
1	Superradiance and Directional Exciton Migration in Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2022, 144, 1396-1406.	6.6	22
2	BODIPY-Based Polymers of Intrinsic Microporosity for the Photocatalytic Detoxification of a Chemical Threat. ACS Applied Materials & Interfaces, 2022, 14, 12596-12605.	4.0	6
3	Light-Harvesting â€œAntennaâ€• Behavior in NU-1000. ACS Energy Letters, 2021, 6, 848-853.	8.8	40
4	Anthraceneâ€“Triphenylamine-Based Platinum(II) Metallacages as Synthetic Light-Harvesting Assembly. Journal of the American Chemical Society, 2021, 143, 2908-2919.	6.6	76
5	Physical properties of porphyrin-based crystalline metalâ€'organic frameworks. Communications Chemistry, 2021, 4, .	2.0	54
6	Tuning Redox Hopping Charge-Transport in Metalâˆ'Organic Frameworks. ECS Meeting Abstracts, 2021, MA2021-01, 782-782.	0.0	0
7	Photoinduced Charge Transfer with a Small Driving Force Facilitated by Exciplex-like Complex Formation in Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2021, 143, 15286-15297.	6.6	30
8	Post-Synthetically Elaborated BODIPY-Based Porous Organic Polymers (POPs) for the Photochemical Detoxification of a Sulfur Mustard Simulant. Journal of the American Chemical Society, 2020, 142, 18554-18564.	6.6	88
9	The role of photoinduced charge transfer for photocatalysis, photoelectrocatalysis and luminescence sensing in metalâ€“organic frameworks. Dalton Transactions, 2020, 49, 12892-12917.	1.6	23
10	Supramolecular Porous Organic Nanocomposites for Heterogeneous Photocatalysis of a Sulfur Mustard Simulant. Advanced Materials, 2020, 32, e2001592.	11.1	23
11	Improving Energy Transfer within Metalâ€“Organic Frameworks by Aligning Linker Transition Dipoles along the Framework Axis. Journal of the American Chemical Society, 2020, 142, 11192-11202.	6.6	48
12	Controlling Charge-Transport in Metalâ€“Organic Frameworks: Contribution of Topological and Spin-State Variation on the Ironâ€“Porphyrin Centered Redox Hopping Rate. Journal of Physical Chemistry B, 2019, 123, 8814-8822.	1.2	40
13	Wavelength-Dependent Energy and Charge Transfer in MOF: A Step toward Artificial Porous Light-Harvesting System. Journal of the American Chemical Society, 2019, 141, 16849-16857.	6.6	93
14	Light-Harvesting in Porous Crystalline Compositions: Where We Stand toward Robust Metalâ€“Organic Frameworks. ACS Sustainable Chemistry and Engineering, 2019, 7, 1841-1854.	3.2	43
15	Unusual solvent polarity dependent excitation relaxation dynamics of a bis[<i>p</i>-ethynyldithiobenzoato]Pd-linked bis[(porphinato)zinc] complex. Molecular Systems Design and Engineering, 2018, 3, 275-284.	1.7	1
16	Charge-Transfer within Zr-Based Metalâ€“Organic Framework: The Role of Polar Node. Journal of the American Chemical Society, 2018, 140, 2756-2760.	6.6	78
17	Metal-Organic Frameworks-Based Electrocatalysis: Insight and Future Perspectives. Comments on Inorganic Chemistry, 2018, 38, 166-209.	3.0	9
18	Excited-State Electronic Properties in Zr-Based Metalâ€“Organic Frameworks as a Function of a Topological Network. Journal of the American Chemical Society, 2018, 140, 10488-10496.	6.6	107

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19	Charge Transfer within Metal-Organic Frameworks: The Role of Polar Node in the Electrocatalysis and Charge Storage. ECS Transactions, 2018, 85, 559-564.	0.3	6
20	Functionalised cyclodextrin-based metalâ€“organic frameworks. Chemical Communications, 2017, 53, 7561-7564.	2.2	55
21	Ground-State versus Excited-State Interchromophoric Interaction: Topology Dependent Excimer Contribution in Metalâ€“Organic Framework Photophysics. Journal of the American Chemical Society, 2017, 139, 5973-5983.	6.6	122
22	Topology-dependent emissive properties of zirconium-based porphyrin MOFs. Chemical Communications, 2016, 52, 13031-13034.	2.2	69
23	First-order hyperpolarizabilities of chiral, polymer-wrapped single-walled carbon nanotubes. Chemical Communications, 2016, 52, 12206-12209.	2.2	6
24	In silico discovery of metal-organic frameworks for precombustion CO ₂ capture using a genetic algorithm. Science Advances, 2016, 2, e1600909.	4.7	231
25	Framework-Topology-Dependent Catalytic Activity of Zirconium-Based (Porphinato)zinc(II) MOFs. Journal of the American Chemical Society, 2016, 138, 14449-14457.	6.6	210
26	One Electron Changes Everything. A Multispecies Copper Redox Shuttle for Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2016, 120, 3731-3740.	1.5	45
27	Unambiguous Diagnosis of Photoinduced Charge Carrier Signatures in a Stoichiometrically Controlled Semiconducting Polymerâ€Wrapped Carbon Nanotube Assembly. Angewandte Chemie - International Edition, 2015, 54, 8133-8138.	7.2	17
28	Unambiguous Diagnosis of Photoinduced Charge Carrier Signatures in a Stoichiometrically Controlled Semiconducting Polymerâ€Wrapped Carbon Nanotube Assembly. Angewandte Chemie, 2015, 127, 8251-8256.	1.6	8
29	Synthesis of nanocrystals of Zr-based metalâ€“organic frameworks with csq-net: significant enhancement in the degradation of a nerve agent simulant. Chemical Communications, 2015, 51, 10925-10928.	2.2	194
30	MOF Functionalization via Solvent-Assisted Ligand Incorporation: Phosphonates vs Carboxylates. Inorganic Chemistry, 2015, 54, 2185-2192.	1.9	177
31	Bias-Switchable Permselectivity and Redox Catalytic Activity of a Ferrocene-Functionalized, Thin-Film Metalâ€“Organic Framework Compound. Journal of Physical Chemistry Letters, 2015, 6, 586-591.	2.1	120
32	Ultrahigh Surface Area Zirconium MOFs and Insights into the Applicability of the BET Theory. Journal of the American Chemical Society, 2015, 137, 3585-3591.	6.6	329
33	A MOF platform for incorporation of complementary organic motifs for CO₂ binding. Chemical Communications, 2015, 51, 12478-12481.	2.2	45
34	Selective Solvent-Assisted Linker Exchange (SALE) in a Series of Zeolitic Imidazolate Frameworks. Inorganic Chemistry, 2015, 54, 7142-7144.	1.9	49
35	Water stabilization of Zr₆-based metalâ€“organic frameworks via solvent-assisted ligand incorporation. Chemical Science, 2015, 6, 5172-5176.	3.7	102
36	A thermodynamic tank model for studying the effect of higher hydrocarbons on natural gas storage in metalâ€“organic frameworks. Energy and Environmental Science, 2015, 8, 1501-1510.	15.6	84

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37	Electrochemically addressable trisradical rotaxanes organized within a metalâ€“organic framework. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 11161-11168.	3.3	83
38	A porous proton-relaying metal-organic framework material that accelerates electrochemical hydrogen evolution. Nature Communications, 2015, 6, 8304.	5.8	239
39	Fe-Porphyrin-Based Metalâ€“Organic Framework Films as High-Surface Concentration, Heterogeneous Catalysts for Electrochemical Reduction of CO₂. ACS Catalysis, 2015, 5, 6302-6309.	5.5	639
40	Ultraporous, Water Stable, and Breathing Zirconium-Based Metalâ€“Organic Frameworks with ftw Topology. Journal of the American Chemical Society, 2015, 137, 13183-13190.	6.6	149
41	Fluence-Dependent Singlet Exciton Dynamics in Length-Sorted Chirality-Enriched Single-Walled Carbon Nanotubes. Nano Letters, 2014, 14, 504-511.	4.5	27
42	Versatile functionalization of the NU-1000 platform by solvent-assisted ligand incorporation. Chemical Communications, 2014, 50, 1965.	2.2	208
43	Directed Growth of Electroactive Metalâ€Organic Framework Thin Films Using Electrophoretic Deposition. Advanced Materials, 2014, 26, 6295-6300.	11.1	265
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. Journal of the American Chemical Society, 2014, 136, 14193-14199.	6.6	23
45	Beyond post-synthesis modification: evolution of metalâ€“organic frameworks via building block replacement. Chemical Society Reviews, 2014, 43, 5896-5912.	18.7	721
46	High-Surface-Area Architectures for Improved Charge Transfer Kinetics at the Dark Electrode in Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2014, 6, 8646-8650.	4.0	17
47	Origins of the Helical Wrapping of Phenyleneethynylene Polymers about Single-Walled Carbon Nanotubes. Journal of Physical Chemistry B, 2013, 117, 12953-12965.	1.2	35
48	Single-Handed Helical Wrapping of Single-Walled Carbon Nanotubes by Chiral, Ionic, Semiconducting Polymers. Journal of the American Chemical Society, 2013, 135, 16220-16234.	6.6	68
49	Perfluoroalkane Functionalization of NU-1000 via Solvent-Assisted Ligand Incorporation: Synthesis and CO₂ Adsorption Studies. Journal of the American Chemical Society, 2013, 135, 16801-16804.	6.6	473
50	Raman Spectroscopic Investigation of Individual Single-Walled Carbon Nanotubes Helically Wrapped by Ionic, Semiconducting Polymers. Journal of Physical Chemistry C, 2013, 117, 14840-14849.	1.5	15
51	Ionic Selfâ€Assembly Provides Dense Arrays of Individualized, Aligned Singleâ€Walled Carbon Nanotubes. Angewandte Chemie - International Edition, 2013, 52, 13080-13085.	7.2	16
52	Effect of Solvent Polarity and Electrophilicity on Quantum Yields and Solvatochromic Shifts of Single-Walled Carbon Nanotube Photoluminescence. Journal of the American Chemical Society, 2012, 134, 12485-12491.	6.6	91
53	Composite Electronic Materials Based on Poly(3,4-propylenedioxythiophene) and Highly Charged Poly(aryleneethynylene)-Wrapped Carbon Nanotubes for Supercapacitors. ACS Applied Materials & Interfaces, 2012, 4, 102-109.	4.0	51
54	Dynamics and Transient Absorption Spectral Signatures of the Single-Wall Carbon Nanotube Electronically Excited Triplet State. Journal of the American Chemical Society, 2011, 133, 17156-17159.	6.6	66

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55	Phase Transfer Catalysts Drive Diverse Organic Solvent Solubility of Single-Walled Carbon Nanotubes Helically Wrapped by Ionic, Semiconducting Polymers. Nano Letters, 2010, 10, 4192-4199.	4.5	40
56	Composite Electronic Materials for Supercapacitor Applications. ECS Transactions, 2009, 23, 3-10.	0.3	1
57	Helical Wrapping of Single-Walled Carbon Nanotubes by Water Soluble Poly(<i>p</i>-phenyleneethynylene). Nano Letters, 2009, 9, 1414-1418.	4.5	162
58	Synthesis of Water-Soluble Poly(<i>p</i>-phenyleneethynylene) in Neat Water under Aerobic Conditions via Suzuki-Miyaura Polycondensation Using a Diborylethyne Synthon. Organic Letters, 2008, 10, 1341-1344.	2.4	33
59	Evaluation of Composite Electronic Materials Based upon Single-Wall Carbon Nanotubes and Highly Charged Poly(aryleneethynylene)s for Supercapacitor Applications. ECS Transactions, 2008, 16, 93-101.	0.3	4
60	Metalated hybrid polymers as catalytic reagents for phosphate ester hydrolysis and plasmid modification. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 1559-1562.	1.0	18
61	Visible and near-infrared excited-state dynamics of single-walled carbon nanotubes. Applied Physics A: Materials Science and Processing, 2004, 79, 1747-1751.	1.1	26