Christopher H Hendon

List of Publications by Year
in descending order

99 papers	16,810 citations	61984 43 h-index	34986 98 g-index
103 all docs	103 docs citations	103 times ranked	20351 citing authors

#	Article	IF	Citations
1	Nanocrystals of Cesium Lead Halide Perovskites (CsPbX₃, X = Cl, Br, and I): Novel Optoelectronic Materials Showing Bright Emission with Wide Color Gamut. Nano Letters, 2015, 15, 3692-3696.	9.1	6,814
2	Atomistic Origins of High-Performance in Hybrid Halide Perovskite Solar Cells. Nano Letters, 2014, 14, 2584-2590.	9.1	2,068
3	Engineering the Optical Response of the Titanium-MIL-125 Metalâ€“Organic Framework through Ligand Functionalization. Journal of the American Chemical Society, 2013, 135, 10942-10945.	13.7	701
4	Self-assembly of noble metal monolayers on transition metal carbide nanoparticle catalysts. Science, 2016, 352, 974-978.	12.6	495
5	Cation-Dependent Intrinsic Electrical Conductivity in Isostructural Tetrathiafulvalene-Based Microporous Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2015, 137, 1774-1777.	13.7	360
6	Signature of Metallic Behavior in the Metalâ€“Organic Frameworks M₃(hexaiminobenzene)₂ (M = Ni, Cu). Journal of the American Chemical Society, 2017, 139, 13608-13611.	13.7	324
7	Grand Challenges and Future Opportunities for Metalâ€“Organic Frameworks. ACS Central Science, 2017, 3, 554-563.	11.3	311
8	Using natureâ€™s blueprint to expand catalysis with Earth-abundant metals. Science, 2020, 369, .	12.6	306
9	Million-Fold Electrical Conductivity Enhancement in Fe₂(DEBDC) versus Mn₂(DEBDC) (E = S, O). Journal of the American Chemical Society, 2015, 137, 6164-6167.	13.7	291
10	Electronic Chemical Potentials of Porous Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2014, 136, 2703-2706.	13.7	262
11	Conductive metalâ€“organic frameworks and networks: fact or fantasy?. Physical Chemistry Chemical Physics, 2012, 14, 13120.	2.8	258
12	Atomically precise single-crystal structures of electrically conducting 2D metalâ€“organic frameworks. Nature Materials, 2021, 20, 222-228.	27.5	239
13	Tracking a Common Surface-Bound Intermediate during CO₂-to-Fuels Catalysis. ACS Central Science, 2016, 2, 522-528.	11.3	227
14	Efficient and tunable one-dimensional charge transport in layered lanthanide metalâ€“organic frameworks. Nature Chemistry, 2020, 12, 131-136.	13.6	214
15	Single Crystals of Electrically Conductive Two-Dimensional Metalâ€“Organic Frameworks: Structural and Electrical Transport Properties. ACS Central Science, 2019, 5, 1959-1964.	11.3	211
16	Tunable Mixed-Valence Doping toward Record Electrical Conductivity in a Three-Dimensional Metalâ€“Organic Framework. Journal of the American Chemical Society, 2018, 140, 7411-7414.	13.7	204
17	Electronic origins of photocatalytic activity in d0 metal organic frameworks. Scientific Reports, 2016, 6, 23676.	3.3	196
18	Photocatalytic Carbon Dioxide Reduction with Rhodiumâ€based Catalysts in Solution and Heterogenized within Metalâ€“Organic Frameworks. ChemSusChem, 2015, 8, 603-608.	6.8	177

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19	Is iron unique in promoting electrical conductivity in MOFs?. Chemical Science, 2017, 8, 4450-4457.	7.4	176
20	Electronic Structure Modeling of Metalâ€“Organic Frameworks. Chemical Reviews, 2020, 120, 8641-8715.	47.7	149
21	Chemical principles underpinning the performance of the metalâ€“organic framework HKUST-1. Chemical Science, 2015, 6, 3674-3683.	7.4	144
22	Mechanism of Single-Site Molecule-Like Catalytic Ethylene Dimerization in Ni-MFU-4<i>l</i>. Journal of the American Chemical Society, 2017, 139, 757-762.	13.7	122
23	Record-Setting Sorbents for Reversible Water Uptake by Systematic Anion Exchanges in Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2019, 141, 13858-13866.	13.7	118
24	Assessment of polyanion (BF₄^{âˆ’} and PF₆^{âˆ’}) substitutions in hybrid halide perovskites. Journal of Materials Chemistry A, 2015, 3, 9067-9070.	10.3	108
25	Reversible Capture and Release of Cl₂ and Br₂ with a Redox-Active Metalâ€“Organic Framework. Journal of the American Chemical Society, 2017, 139, 5992-5997.	13.7	95
26	A Structural Mimic of Carbonic Anhydrase in a Metal-Organic Framework. CheM, 2018, 4, 2894-2901.	11.7	91
27	A molecular cross-linking approach for hybrid metal oxides. Nature Materials, 2018, 17, 341-348.	27.5	90
28	Surface Restructuring of Nickel Sulfide Generates Optimally Coordinated Active Sites for Oxygen Reduction Catalysis. Joule, 2017, 1, 600-612.	24.0	89
29	Chemiresistive Sensing of Ambient CO₂ by an Autogenously Hydrated Cu₃(hexaiminobenzene)₂ Framework. ACS Central Science, 2019, 5, 1425-1431.	11.3	79
30	Electronic Structure Modulation of Metalâ€“Organic Frameworks for Hybrid Devices. ACS Applied Materials & Interfaces, 2014, 6, 22044-22050.	8.0	75
31	Helical frontier orbitals of conjugated linear molecules. Chemical Science, 2013, 4, 4278.	7.4	72
32	The Organic Secondary Building Unit: Strong Intermolecular Ï€ Interactions Define Topology in MIT-25, a Mesoporous MOF with Proton-Replete Channels. Journal of the American Chemical Society, 2017, 139, 3619-3622.	13.7	72
33	Role of entropic effects in controlling the polymorphism in formate ABX₃ metalâ€“organic frameworks. Chemical Communications, 2015, 51, 15538-15541.	4.1	66
34	Modular design of SPIRO-OMeTAD analogues as hole transport materials in solar cells. Chemical Communications, 2015, 51, 8935-8938.	4.1	64
35	Revisiting the Incorporation of Ti(IV) in UiO-type Metalâ€“Organic Frameworks: Metal Exchange versus Grafting and Their Implications on Photocatalysis. Chemistry of Materials, 2017, 29, 8963-8967.	6.7	64
36	Selective Vapor Pressure Dependent Proton Transport in a Metalâ€“Organic Framework with Two Distinct Hydrophilic Pores. Journal of the American Chemical Society, 2018, 140, 2016-2019.	13.7	64

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37	Highly Stereoselective Heterogeneous Diene Polymerization by Co-MFU-4l: A Single-Site Catalyst Prepared by Cation Exchange. Journal of the American Chemical Society, 2017, 139, 12664-12669.	13.7	63
38	Selective Dimerization of Propylene with Ni-MFU-4<i>l</i>. Organometallics, 2017, 36, 1681-1683.	2.3	55
39	Catalytic Amine Oxidation under Ambient Aerobic Conditions: Mimicry of Monoamine Oxidaseâ€…B. Angewandte Chemie - International Edition, 2015, 54, 8997-9000.	13.8	54
40	Ligand design for long-range magnetic order in metalâ€“organic frameworks. Chemical Communications, 2014, 50, 13990-13993.	4.1	52
41	An unprecedented {Ni₁₄SiW₉} hybrid polyoxometalate with high photocatalytic hydrogen evolution activity. Chemical Communications, 2019, 55, 4166-4169.	4.1	51
42	Switchable electrical conductivity in a three-dimensional metalâ€“organic framework <i>via</i> reversible ligand n-doping. Chemical Science, 2020, 11, 1342-1346.	7.4	50
43	What Lies beneath a Metalâ€“Organic Framework Crystal Structure? New Design Principles from Unexpected Behaviors. Journal of the American Chemical Society, 2021, 143, 6705-6723.	13.7	48
44	Metal-free perovskites for non linear optical materials. Chemical Science, 2019, 10, 8187-8194.	7.4	46
45	Nucleolar Stress Induction by Oxaliplatin and Derivatives. Journal of the American Chemical Society, 2019, 141, 18411-18415.	13.7	43
46	Chemical principles for electroactive metalâ€“organic frameworks. MRS Bulletin, 2016, 41, 870-876.	3.5	42
47	Three-electron two-centred bonds and the stabilisation of cationic sulfur radicals. Chemical Science, 2014, 5, 1390-1395.	7.4	41
48	Electronic structure design for nanoporous, electrically conductive zeolitic imidazolate frameworks. Journal of Materials Chemistry C, 2017, 5, 7726-7731.	5.5	40
49	Soft Mode Metal-Linker Dynamics in Carboxylate MOFs Evidenced by Variable-Temperature Infrared Spectroscopy. Journal of the American Chemical Society, 2020, 142, 19291-19299.	13.7	38
50	Toward New 2D Zirconium-Based Metalâ€“Organic Frameworks: Synthesis, Structures, and Electronic Properties. Chemistry of Materials, 2020, 32, 97-104.	6.7	37
51	Absorbate-Induced Piezochromism in a Porous Molecular Crystal. Nano Letters, 2015, 15, 2149-2154.	9.1	36
52	Designing porous electronic thin-film devices: band offsets and heteroepitaxy. Faraday Discussions, 2017, 201, 207-219.	3.2	36
53	Dithioesters: simple, tunable, cysteine-selective H₂S donors. Chemical Science, 2019, 10, 1773-1779.	7.4	35
54	One-dimensional Magnus-type platinum double salts. Nature Communications, 2016, 7, 11950.	12.8	34

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55	The Role of Dissolved Cations in Coffee Extraction. Journal of Agricultural and Food Chemistry, 2014, 62, 4947-4950.	5.2	33
56	Lone-Pair Stabilization in Transparent Amorphous Tin Oxides: A Potential Route to p-Type Conduction Pathways. Chemistry of Materials, 2016, 28, 4706-4713.	6.7	33
57	The effect of bean origin and temperature on grinding roasted coffee. Scientific Reports, 2016, 6, 24483.	3.3	31
58	A Simple and Nonâ€Destructive Method for Assessing the Incorporation of Bipyridine Dicarboxylates as Linkers within Metalâ€“Organic Frameworks. Chemistry - A European Journal, 2016, 22, 3713-3718.	3.3	28
59	Three-Electrode Study of Electrochemical Ionomer Degradation Relevant to Anion-Exchange-Membrane Water Electrolyzers. ACS Applied Materials & Interfaces, 2022, 14, 18261-18274.	8.0	28
60	Coordination-induced reversible electrical conductivity variation in the MOF-74 analogue Fe₂(DSBDC). Dalton Transactions, 2018, 47, 11739-11743.	3.3	27
61	Tunable Band Gaps in MUV-10(M): A Family of Photoredox-Active MOFs with Earth-Abundant Open Metal Sites. Journal of the American Chemical Society, 2021, 143, 12609-12621.	13.7	26
62	Systematically Improving Espresso: Insights from Mathematical Modeling and Experiment. Matter, 2020, 2, 631-648.	10.0	25
63	Realistic Surface Descriptions of Heterometallic Interfaces: The Case of TiWC Coated in Noble Metals. Journal of Physical Chemistry Letters, 2016, 7, 4475-4482.	4.6	24
64	Determining Optical Band Gaps of MOFs. , 2022, 4, 457-463.		24
65	Thermodynamic and electronic properties of tunable IIâ€“VI and IVâ€“VI semiconductor based metalâ€“organic frameworks from computational chemistry. Journal of Materials Chemistry C, 2013, 1, 95-100.	5.5	23
66	Crystal structure optimisation using an auxiliary equation of state. Journal of Chemical Physics, 2015, 143, 184101.	3.0	21
67	Rapid Electrochemical Methane Functionalization Involves Pdâ€“Pd Bonded Intermediates. Journal of the American Chemical Society, 2020, 142, 20631-20639.	13.7	21
68	Use of Dithiasuccinoylâ€Caged Amines Enables COS/H₂S Release Lacking Electrophilic Byproducts. Chemistry - A European Journal, 2020, 26, 5374-5380.	3.3	16
69	Time-Resolved <i>in Situ</i> Polymorphic Transformation from One 12-Connected Zr-MOF to Another. , 2020, 2, 499-504.		16
70	Monofunctional platinum(II) compounds and nucleolar stress: is phenanthriplatin unique?. Journal of Biological Inorganic Chemistry, 2019, 24, 899-908.	2.6	15
71	<i>Quo vadis niobium</i>? Divergent coordination behavior of early-transition metals towards MOF-5. Chemical Science, 2019, 10, 5906-5910.	7.4	15
72	Divergent Adsorption Behavior Controlled by Primary Coordination Sphere Anions in the Metalâ€“Organic Framework Ni₂X₂BTDD. Journal of the American Chemical Society, 2021, 143, 16343-16347.	13.7	15

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73	Titanium(IV) Inclusion as a Versatile Route to Photoactivity in Metalâ€“Organic Frameworks. Advanced Theory and Simulations, 2019, 2, 1900126.	2.8	14
74	Frontier Orbital Engineering of Metalâ€“Organic Frameworks with Extended Inorganic Connectivity: Porous Alkaline-Earth Oxides. Inorganic Chemistry, 2016, 55, 7265-7269.	4.0	13
75	Pressure-induced metallicity and piezoreductive transition of metal-centres in conductive 2-dimensional metalâ€“organic frameworks. Physical Chemistry Chemical Physics, 2019, 21, 25773-25778.	2.8	13
76	Cyclopropenium (C₃H₃)⁺ as an Aromatic Alternative A-Site Cation for Hybrid Halide Perovskite Architectures. Journal of Physical Chemistry C, 2018, 122, 2041-2045.	3.1	12
77	Cooperativity and Metalâ€“Linker Dynamics in Spin Crossover Framework Fe(1,2,3-triazolate)₂. Chemistry of Materials, 2021, 33, 8534-8545.	6.7	12
78	Electronic Challenges of Retrofitting 2D Electrically Conductive MOFs to Form 3D Conductive Lattices. ACS Applied Electronic Materials, 2021, 3, 2017-2023.	4.3	11
79	From n- to p-Type Material: Effect of Metal Ion on Charge Transport in Metalâ€“Organic Materials. ACS Applied Materials & Interfaces, 2021, 13, 52055-52062.	8.0	10
80	Polymorphism of the azobenzene dye compound methyl yellow. CrystEngComm, 2016, 18, 3456-3461.	2.6	8
81	Electroactive Nanoporous Metal Oxides and Chalcogenides by Chemical Design. Chemistry of Materials, 2017, 29, 3663-3670.	6.7	8
82	Discovery of Cu 3 Pb. Angewandte Chemie - International Edition, 2018, 57, 12809-12813.	13.8	7
83	Porous Crystals Provide Potable Water from Air. ACS Central Science, 2019, 5, 1639-1641.	11.3	7
84	Conductivity in Open-Framework Chalcogenides Tuned via Band Engineering and Redox Chemistry. Chemistry of Materials, 2022, 34, 1905-1920.	6.7	7
85	Influence of Nanoarchitecture on Charge Donation and the Electrical-Transport Properties in [(SnSe)_{1+Î´}][TiSe₂]_{<i>q</i>} Heterostructures. Chemistry of Materials, 2020, 32, 5802-5813.	6.7	6
86	On the limit of proton-coupled electronic doping in a Ti(<scp>iv</scp>)-containing MOF. Chemical Science, 2021, 12, 11779-11785.	7.4	6
87	Post-synthetic modification of ionic liquids using ligand-exchange and redox coordination chemistry. Journal of Materials Chemistry A, 2020, 8, 22674-22685.	10.3	5
88	<i>N</i>-Methylation of Self-Immolative Thiocarbamates Provides Insights into the Mechanism of Carbonyl Sulfide Release. Journal of Organic Chemistry, 2021, 86, 5443-5451.	3.2	5
89	Singlet-to-Triplet Spin Transitions Facilitate Selective 1-Butene Formation during Ethylene Dimerization in Ni(II)-MFU-4<i>l</i>. Journal of Physical Chemistry C, 2021, 125, 22036-22043.	3.1	5
90	An electric field-based approach for quantifying effective volumes and radii of chemically affected space. Chemical Science, 2022, 13, 6558-6566.	7.4	5

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91	Magnetic coupling in a hybrid Mn(<scp>ii</scp>) acetylene dicarboxylate. Physical Chemistry Chemical Physics, 2016, 18, 33329-33334.	2.8	4
92	A Type I Heterointerface between Amorphous PbI₂ Overlayers on Crystalline CsPbI₃. ACS Applied Energy Materials, 2020, 3, 10328-10332.	5.1	4
93	Discovery of Cu 3 Pb. Angewandte Chemie, 2018, 130, 12991-12995.	2.0	3
94	Spectroscopic characterization of Mn2+ and Cd2+ coordination to phosphorothioates in the conserved A9 metal site of the hammerhead ribozyme. Journal of Inorganic Biochemistry, 2022, 230, 111754.	3.5	2
95	The impact of solvent relative permittivity on the dimerisation of organic molecules well below their solubility limits: examples from brewed coffee and beyond. Food and Function, 2017, 8, 1037-1042.	4.6	1
96	Electronic implications of organic nitrogen lone pairs in lead iodide perovskites. Journal of Materials Chemistry C, 2018, 6, 4765-4768.	5.5	1
97	Frontispiece: Use of Dithiasuccinoylâ€Caged Amines Enables COS/H₂S Release Lacking Electrophilic Byproducts. Chemistry - A European Journal, 2020, 26, .	3.3	1
98	A porous crystalâ€™s penchant for bitter almonds. Matter, 2021, 4, 2651-2652.	10.0	1
99	Coffee chemistry: Not your average joe. Science, 2019, 365, 553-553.	12.6	0