

Christopher H Hendon

List of Publications by Year in descending order

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99
papers

16,810
citations

61984

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34986

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docs citations

103
times ranked

20351
citing authors

#	ARTICLE	IF	CITATIONS
1	Conductivity in Open-Framework Chalcogenides Tuned via Band Engineering and Redox Chemistry. <i>Chemistry of Materials</i> , 2022, 34, 1905-1920.	6.7	7
2	Determining Optical Band Gaps of MOFs. , 2022, 4, 457-463.		24
3	Spectroscopic characterization of Mn ²⁺ and Cd ²⁺ coordination to phosphorothioates in the conserved A9 metal site of the hammerhead ribozyme. <i>Journal of Inorganic Biochemistry</i> , 2022, 230, 111754.	3.5	2
4	Three-Electrode Study of Electrochemical Ionomer Degradation Relevant to Anion-Exchange-Membrane Water Electrolyzers. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 18261-18274.	8.0	28
5	An electric field-based approach for quantifying effective volumes and radii of chemically affected space. <i>Chemical Science</i> , 2022, 13, 6558-6566.	7.4	5
6	Atomically precise single-crystal structures of electrically conducting 2D metal-organic frameworks. <i>Nature Materials</i> , 2021, 20, 222-228.	27.5	239
7	On the limit of proton-coupled electronic doping in a Ti-containing MOF. <i>Chemical Science</i> , 2021, 12, 11779-11785.	7.4	6
8	What Lies beneath a Metal-Organic Framework Crystal Structure? New Design Principles from Unexpected Behaviors. <i>Journal of the American Chemical Society</i> , 2021, 143, 6705-6723.	13.7	48
9	Electronic Challenges of Retrofitting 2D Electrically Conductive MOFs to Form 3D Conductive Lattices. <i>ACS Applied Electronic Materials</i> , 2021, 3, 2017-2023.	4.3	11
10	<i>N</i> -Methylation of Self-Immolative Thiocarbamates Provides Insights into the Mechanism of Carbonyl Sulfide Release. <i>Journal of Organic Chemistry</i> , 2021, 86, 5443-5451.	3.2	5
11	From n- to p-Type Material: Effect of Metal Ion on Charge Transport in Metal-Organic Materials. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 52055-52062.	8.0	10
12	Tunable Band Gaps in MUV-10(M): A Family of Photoredox-Active MOFs with Earth-Abundant Open Metal Sites. <i>Journal of the American Chemical Society</i> , 2021, 143, 12609-12621.	13.7	26
13	A porous crystal's penchant for bitter almonds. <i>Matter</i> , 2021, 4, 2651-2652.	10.0	1
14	Divergent Adsorption Behavior Controlled by Primary Coordination Sphere Anions in the Metal-Organic Framework Ni ₂ X ₂ BTDD. <i>Journal of the American Chemical Society</i> , 2021, 143, 16343-16347.	13.7	15
15	Singlet-to-Triplet Spin Transitions Facilitate Selective 1-Butene Formation during Ethylene Dimerization in Ni(II)-MFU-4l. <i>Journal of Physical Chemistry C</i> , 2021, 125, 22036-22043.	3.1	5
16	Cooperativity and Metal-Linker Dynamics in Spin Crossover Framework Fe(1,2,3-triazolate) ₂ . <i>Chemistry of Materials</i> , 2021, 33, 8534-8545.	6.7	12
17	Switchable electrical conductivity in a three-dimensional metal-organic framework <i>via</i> reversible ligand n-doping. <i>Chemical Science</i> , 2020, 11, 1342-1346.	7.4	50
18	Toward New 2D Zirconium-Based Metal-Organic Frameworks: Synthesis, Structures, and Electronic Properties. <i>Chemistry of Materials</i> , 2020, 32, 97-104.	6.7	37

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19	Efficient and tunable one-dimensional charge transport in layered lanthanide metal-organic frameworks. <i>Nature Chemistry</i> , 2020, 12, 131-136.	13.6	214
20	Post-synthetic modification of ionic liquids using ligand-exchange and redox coordination chemistry. <i>Journal of Materials Chemistry A</i> , 2020, 8, 22674-22685.	10.3	5
21	Electronic Structure Modeling of Metal-Organic Frameworks. <i>Chemical Reviews</i> , 2020, 120, 8641-8715.	47.7	149
22	Frontispiece: Use of Dithiasuccinoyl-Caged Amines Enables COS/H ₂ S Release Lacking Electrophilic Byproducts. <i>Chemistry - A European Journal</i> , 2020, 26, .	3.3	1
23	Rapid Electrochemical Methane Functionalization Involves Pd-Bonded Intermediates. <i>Journal of the American Chemical Society</i> , 2020, 142, 20631-20639.	13.7	21
24	Using nature's blueprint to expand catalysis with Earth-abundant metals. <i>Science</i> , 2020, 369, .	12.6	306
25	A Type I Heterointerface between Amorphous PbI ₂ Overlayers on Crystalline CsPbI ₃ . <i>ACS Applied Energy Materials</i> , 2020, 3, 10328-10332.	5.1	4
26	Soft Mode Metal-Linker Dynamics in Carboxylate MOFs Evidenced by Variable-Temperature Infrared Spectroscopy. <i>Journal of the American Chemical Society</i> , 2020, 142, 19291-19299.	13.7	38
27	Influence of Nanoarchitecture on Charge Donation and the Electrical-Transport Properties in [(SnSe) _{1+δ}][TiSe ₂] _{q} Heterostructures. <i>Chemistry of Materials</i> , 2020, 32, 5802-5813.	6.7	6
28	Use of Dithiasuccinoyl-Caged Amines Enables COS/H ₂ S Release Lacking Electrophilic Byproducts. <i>Chemistry - A European Journal</i> , 2020, 26, 5374-5380.	3.3	16
29	Systematically Improving Espresso: Insights from Mathematical Modeling and Experiment. <i>Matter</i> , 2020, 2, 631-648.	10.0	25
30	Time-Resolved <i>in Situ</i> Polymorphic Transformation from One 12-Connected Zr-MOF to Another. , 2020, 2, 499-504.		16
31	Coffee chemistry: Not your average joe. <i>Science</i> , 2019, 365, 553-553.	12.6	0
32	Record-Setting Sorbents for Reversible Water Uptake by Systematic Anion Exchanges in Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2019, 141, 13858-13866.	13.7	118
33	Metal-free perovskites for non linear optical materials. <i>Chemical Science</i> , 2019, 10, 8187-8194.	7.4	46
34	Nucleolar Stress Induction by Oxaliplatin and Derivatives. <i>Journal of the American Chemical Society</i> , 2019, 141, 18411-18415.	13.7	43
35	Titanium(IV) Inclusion as a Versatile Route to Photoactivity in Metal-Organic Frameworks. <i>Advanced Theory and Simulations</i> , 2019, 2, 1900126.	2.8	14
36	Monofunctional platinum(II) compounds and nucleolar stress: is phenanthriplatin unique?. <i>Journal of Biological Inorganic Chemistry</i> , 2019, 24, 899-908.	2.6	15

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37	Porous Crystals Provide Potable Water from Air. ACS Central Science, 2019, 5, 1639-1641.	11.3	7
38	Chemiresistive Sensing of Ambient CO ₂ by an Autogenously Hydrated Cu ₃ (hexaiminobenzene) ₂ Framework. ACS Central Science, 2019, 5, 1425-1431.	11.3	79
39	<i>Quo vadis niobium</i> ? Divergent coordination behavior of early-transition metals towards MOF-5. Chemical Science, 2019, 10, 5906-5910.	7.4	15
40	An unprecedented {Ni ₁₄ SiW ₉ } hybrid polyoxometalate with high photocatalytic hydrogen evolution activity. Chemical Communications, 2019, 55, 4166-4169.	4.1	51
41	Pressure-induced metallicity and piezoreductive transition of metal-centres in conductive 2-dimensional metal-organic frameworks. Physical Chemistry Chemical Physics, 2019, 21, 25773-25778.	2.8	13
42	Single Crystals of Electrically Conductive Two-Dimensional Metal-Organic Frameworks: Structural and Electrical Transport Properties. ACS Central Science, 2019, 5, 1959-1964.	11.3	211
43	Dithioesters: simple, tunable, cysteine-selective H ₂ S donors. Chemical Science, 2019, 10, 1773-1779.	7.4	35
44	A molecular cross-linking approach for hybrid metal oxides. Nature Materials, 2018, 17, 341-348.	27.5	90
45	Electronic implications of organic nitrogen lone pairs in lead iodide perovskites. Journal of Materials Chemistry C, 2018, 6, 4765-4768.	5.5	1
46	Selective Vapor Pressure Dependent Proton Transport in a Metal-Organic Framework with Two Distinct Hydrophilic Pores. Journal of the American Chemical Society, 2018, 140, 2016-2019.	13.7	64
47	Cyclopropenium (C ₃ H ₃) ⁺ as an Aromatic Alternative A-Site Cation for Hybrid Halide Perovskite Architectures. Journal of Physical Chemistry C, 2018, 122, 2041-2045.	3.1	12
48	A Structural Mimic of Carbonic Anhydrase in a Metal-Organic Framework. ChemM, 2018, 4, 2894-2901.	11.7	91
49	Discovery of Cu ₃ Pb. Angewandte Chemie, 2018, 130, 12991-12995.	2.0	3
50	Discovery of Cu ₃ Pb. Angewandte Chemie - International Edition, 2018, 57, 12809-12813.	13.8	7
51	Tunable Mixed-Valence Doping toward Record Electrical Conductivity in a Three-Dimensional Metal-Organic Framework. Journal of the American Chemical Society, 2018, 140, 7411-7414.	13.7	204
52	Coordination-induced reversible electrical conductivity variation in the MOF-74 analogue Fe ₂ (DSBDC). Dalton Transactions, 2018, 47, 11739-11743.	3.3	27
53	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
54	The Organic Secondary Building Unit: Strong Intermolecular H 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

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55	Is iron unique in promoting electrical conductivity in MOFs?. <i>Chemical Science</i> , 2017, 8, 4450-4457.	7.4	176
56	Selective Dimerization of Propylene with Ni-MFU-4l. <i>Organometallics</i> , 2017, 36, 1681-1683.	2.3	55
57	Designing porous electronic thin-film devices: band offsets and heteroepitaxy. <i>Faraday Discussions</i> , 2017, 201, 207-219.	3.2	36
58	Grand Challenges and Future Opportunities for Metal-Organic Frameworks. <i>ACS Central Science</i> , 2017, 3, 554-563.	11.3	311
59	Electroactive Nanoporous Metal Oxides and Chalcogenides by Chemical Design. <i>Chemistry of Materials</i> , 2017, 29, 3663-3670.	6.7	8
60	Reversible Capture and Release of Cl ₂ and Br ₂ with a Redox-Active Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2017, 139, 5992-5997.	13.7	95
61	Mechanism of Single-Site Molecule-Like Catalytic Ethylene Dimerization in Ni-MFU-4l. <i>Journal of the American Chemical Society</i> , 2017, 139, 757-762.	13.7	122
62	Revisiting the Incorporation of Ti(IV) in UiO-type Metal-Organic Frameworks: Metal Exchange versus Grafting and Their Implications on Photocatalysis. <i>Chemistry of Materials</i> , 2017, 29, 8963-8967.	6.7	64
63	Signature of Metallic Behavior in the Metal-Organic Frameworks M ₃ (hexaiminobenzene) ₂ (M = Ni, Cu). <i>Journal of the American Chemical Society</i> , 2017, 139, 13608-13611.	13.7	324
64	Electronic structure design for nanoporous, electrically conductive zeolitic imidazolate frameworks. <i>Journal of Materials Chemistry C</i> , 2017, 5, 7726-7731.	5.5	40
65	Highly Stereoselective Heterogeneous Diene Polymerization by Co-MFU-4l: A Single-Site Catalyst Prepared by Cation Exchange. <i>Journal of the American Chemical Society</i> , 2017, 139, 12664-12669.	13.7	63
66	Surface Restructuring of Nickel Sulfide Generates Optimally Coordinated Active Sites for Oxygen Reduction Catalysis. <i>Joule</i> , 2017, 1, 600-612.	24.0	89
67	Magnetic coupling in a hybrid Mn(acetylene dicarboxylate). <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 33329-33334.	2.8	4
68	Self-assembly of noble metal monolayers on transition metal carbide nanoparticle catalysts. <i>Science</i> , 2016, 352, 974-978.	12.6	495
69	Polymorphism of the azobenzene dye compound methyl yellow. <i>CrystEngComm</i> , 2016, 18, 3456-3461.	2.6	8
70	Tracking a Common Surface-Bound Intermediate during CO ₂ -to-Fuels Catalysis. <i>ACS Central Science</i> , 2016, 2, 522-528.	11.3	227
71	Chemical principles for electroactive metal-organic frameworks. <i>MRS Bulletin</i> , 2016, 41, 870-876.	3.5	42
72	Realistic Surface Descriptions of Heterometallic Interfaces: The Case of TiWC Coated in Noble Metals. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 4475-4482.	4.6	24

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73	Electronic origins of photocatalytic activity in d0 metal organic frameworks. <i>Scientific Reports</i> , 2016, 6, 23676.	3.3	196
74	One-dimensional Magnus-type platinum double salts. <i>Nature Communications</i> , 2016, 7, 11950.	12.8	34
75	The effect of bean origin and temperature on grinding roasted coffee. <i>Scientific Reports</i> , 2016, 6, 24483.	3.3	31
76	Frontier Orbital Engineering of Metal-Organic Frameworks with Extended Inorganic Connectivity: Porous Alkaline-Earth Oxides. <i>Inorganic Chemistry</i> , 2016, 55, 7265-7269.	4.0	13
77	Lone-Pair Stabilization in Transparent Amorphous Tin Oxides: A Potential Route to p-Type Conduction Pathways. <i>Chemistry of Materials</i> , 2016, 28, 4706-4713.	6.7	33
78	A Simple and Non-Destructive Method for Assessing the Incorporation of Bipyridine Dicarboxylates as Linkers within Metal-Organic Frameworks. <i>Chemistry - A European Journal</i> , 2016, 22, 3713-3718.	3.3	28
79	Catalytic Amine Oxidation under Ambient Aerobic Conditions: Mimicry of Monoamine Oxidase...B. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 8997-9000.	13.8	54
80	Crystal structure optimisation using an auxiliary equation of state. <i>Journal of Chemical Physics</i> , 2015, 143, 184101.	3.0	21
81	Cation-Dependent Intrinsic Electrical Conductivity in Isostructural Tetrathiafulvalene-Based Microporous Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2015, 137, 1774-1777.	13.7	360
82	Nanocrystals of Cesium Lead Halide Perovskites (CsPbX ₃ , X = Cl, Br, and I): Novel Optoelectronic Materials Showing Bright Emission with Wide Color Gamut. <i>Nano Letters</i> , 2015, 15, 3692-3696.	9.1	6,814
83	Photocatalytic Carbon Dioxide Reduction with Rhodium-based Catalysts in Solution and Heterogenized within Metal-Organic Frameworks. <i>ChemSusChem</i> , 2015, 8, 603-608.	6.8	177
84	Modular design of SPIRO-OMeTAD analogues as hole transport materials in solar cells. <i>Chemical Communications</i> , 2015, 51, 8935-8938.	4.1	64
85	Million-Fold Electrical Conductivity Enhancement in Fe ₂ (DEBDC) versus Mn ₂ (DEBDC) (E = S, O). <i>Journal of the American Chemical Society</i> , 2015, 137, 6164-6167.	13.7	291
86	Absorbate-Induced Piezochromism in a Porous Molecular Crystal. <i>Nano Letters</i> , 2015, 15, 2149-2154.	9.1	36
87	Chemical principles underpinning the performance of the metal-organic framework HKUST-1. <i>Chemical Science</i> , 2015, 6, 3674-3683.	7.4	144
88	Role of entropic effects in controlling the polymorphism in formate ABX ₃ metal-organic frameworks. <i>Chemical Communications</i> , 2015, 51, 15538-15541.	4.1	66
89	Assessment of polyanion (BF ₄ ⁻ and PF ₆ ⁻) substitutions in hybrid halide perovskites. <i>Journal of Materials Chemistry A</i> , 2015, 3, 9067-9070.	10.3	108
90	Electronic Structure Modulation of Metal-Organic Frameworks for Hybrid Devices. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 22044-22050.	8.0	75

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91	Electronic Chemical Potentials of Porous Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2014, 136, 2703-2706.	13.7	262
92	Atomistic Origins of High-Performance in Hybrid Halide Perovskite Solar Cells. <i>Nano Letters</i> , 2014, 14, 2584-2590.	9.1	2,068
93	The Role of Dissolved Cations in Coffee Extraction. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 4947-4950.	5.2	33
94	Three-electron two-centred bonds and the stabilisation of cationic sulfur radicals. <i>Chemical Science</i> , 2014, 5, 1390-1395.	7.4	41
95	Ligand design for long-range magnetic order in metal-organic frameworks. <i>Chemical Communications</i> , 2014, 50, 13990-13993.	4.1	52
96	Engineering the Optical Response of the Titanium-MIL-125 Metal-Organic Framework through Ligand Functionalization. <i>Journal of the American Chemical Society</i> , 2013, 135, 10942-10945.	13.7	701
97	Helical frontier orbitals of conjugated linear molecules. <i>Chemical Science</i> , 2013, 4, 4278.	7.4	72
98	Thermodynamic and electronic properties of tunable II-VI and IV-VI semiconductor based metal-organic frameworks from computational chemistry. <i>Journal of Materials Chemistry C</i> , 2013, 1, 95-100.	5.5	23
99	Conductive metal-organic frameworks and networks: fact or fantasy?. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 13120.	2.8	258