Christopher H Hendon

List of Publications by Citations

93 papers	12,139 citations	40 h-index	103 g-index
103 ext. papers	14,418 ext. citations	11.6 avg, IF	6.66 L-index

#	Paper	IF	Citations
93	Nanocrystals of Cesium Lead Halide Perovskites (CsPbX□X = Cl, Br, and I): Novel Optoelectronic Materials Showing Bright Emission with Wide Color Gamut. *Nano Letters*, **2015**, 15, 3692-6	11.5	4888
92	Atomistic origins of high-performance in hybrid halide perovskite solar cells. *Nano Letters*, **2014**, 14, 2584-90	11.5	1756
91	Engineering the optical response of the titanium-MIL-125 metal-organic framework through ligand functionalization. *Journal of the American Chemical Society*, **2013**, 135, 10942-5	16.4	535
90	Self-assembly of noble metal monolayers on transition metal carbide nanoparticle catalysts. *Science* , **2016**, 352, 974-8	33.3	381
89	Cation-dependent intrinsic electrical conductivity in isostructural tetrathiafulvalene-based microporous metal-organic frameworks. *Journal of the American Chemical Society*, **2015**, 137, 1774-7	16.4	282
88	Grand Challenges and Future Opportunities for Metal-Organic Frameworks. *ACS Central Science*, **2017**, 3, 554-563	16.8	236
87	Million-Fold Electrical Conductivity Enhancement in Fe2(DEBDC) versus Mn2(DEBDC) (E = S, O). *Journal of the American Chemical Society*, **2015**, 137, 6164-7	16.4	222
86	Conductive metal-organic frameworks and networks: fact or fantasy?. *Physical Chemistry Chemical Physics*, **2012**, 14, 13120-32	3.6	222
85	Electronic chemical potentials of porous metal-organic frameworks. *Journal of the American Chemical Society*, **2014**, 136, 2703-6	16.4	221
84	Signature of Metallic Behavior in the Metal-Organic Frameworks M(hexaiminobenzene) (M = Ni, Cu). *Journal of the American Chemical Society*, **2017**, 139, 13608-13611	16.4	214
83	Electronic origins of photocatalytic activity in d0 metal organic frameworks. *Scientific Reports*, **2016** , 6, 23676	4.9	154
82	Tracking a Common Surface-Bound Intermediate during CO2-to-Fuels Catalysis. *ACS Central Science* , **2016**, 2, 522-8	16.8	153
81	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	16.4	152
80	Photocatalytic carbon dioxide reduction with rhodium-based catalysts in solution and heterogenized within metal-organic frameworks. *ChemSusChem*, **2015**, 8, 603-8	8.3	149
79	Using natures blueprint to expand catalysis with Earth-abundant metals. *Science*, **2020**, 369,	33.3	124
78	Efficient and tunable one-dimensional charge transport in layered lanthanide metal-organic frameworks. *Nature Chemistry*, **2020**, 12, 131-136	17.6	120
77	Is iron unique in promoting electrical conductivity in MOFs?. *Chemical Science*, **2017**, 8, 4450-4457	9.4	106

76	Single Crystals of Electrically Conductive Two-Dimensional Metal-Organic Frameworks: Structural and Electrical Transport Properties. *ACS Central Science*, **2019**, 5, 1959-1964	16.8	105
75	Atomically precise single-crystal structures of electrically conducting 2D metal-organic frameworks. *Nature Materials*, **2021**, 20, 222-228	27	104
74	Chemical principles underpinning the performance of the metal-organic framework HKUST-1. *Chemical Science*, **2015**, 6, 3674-3683	9.4	96
73	Mechanism of Single-Site Molecule-Like Catalytic Ethylene Dimerization in Ni-MFU-4l. *Journal of the American Chemical Society*, **2017**, 139, 757-762	16.4	94
72	Assessment of polyanion (BF4) and PF6) substitutions in hybrid halide perovskites. *Journal of Materials Chemistry A*, **2015**, 3, 9067-9070	13	83
71	Reversible Capture and Release of Cl and Br with a Redox-Active Metal-Organic Framework. *Journal of the American Chemical Society*, **2017**, 139, 5992-5997	16.4	82
70	Electronic Structure Modeling of Metal-Organic Frameworks. *Chemical Reviews*, **2020**, 120, 8641-8715	68.1	73
69	Record-Setting Sorbents for Reversible Water Uptake by Systematic Anion Exchanges in Metal-Organic Frameworks. *Journal of the American Chemical Society*, **2019**, 141, 13858-13866	16.4	67
68	Electronic structure modulation of metal-organic frameworks for hybrid devices. *ACS Applied Materials & Interfaces*, **2014**, 6, 22044-50	9.5	67
67	A molecular cross-linking approach for hybrid metal oxides. *Nature Materials*, **2018**, 17, 341-348	27	66
66	The Organic Secondary Building Unit: Strong Intermolecular Interactions Define Topology in MIT-25, a Mesoporous MOF with Proton-Replete Channels. *Journal of the American Chemical Society* , **2017**, 139, 3619-3622	16.4	59
65	Role of entropic effects in controlling the polymorphism in formate ABX3 metal-organic frameworks. *Chemical Communications*, **2015**, 51, 15538-41	5.8	59
64	Surface Restructuring of Nickel Sulfide Generates Optimally Coordinated Active Sites for Oxygen Reduction Catalysis. *Joule*, **2017**, 1, 600-612	27.8	58
63	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	16.4	57
62	Helical frontier orbitals of conjugated linear molecules. *Chemical Science*, **2013**, 4, 4278	9.4	53
61	A Structural Mimic of Carbonic Anhydrase in a Metal-Organic Framework. *CheM*, **2018**, 4, 2894-2901	16.2	53
60	Revisiting the Incorporation of Ti(IV) in UiO-type Metal Organic Frameworks: Metal Exchange versus Grafting and Their Implications on Photocatalysis. *Chemistry of Materials*, **2017**, 29, 8963-8967	9.6	52
59	Modular design of SPIRO-OMeTAD analogues as hole transport materials in solar cells. *Chemical Communications*, **2015**, 51, 8935-8	5.8	51

58	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	16.4	51
57	Chemiresistive Sensing of Ambient CO by an Autogenously Hydrated Cu(hexaiminobenzene) Framework. *ACS Central Science*, **2019**, 5, 1425-1431	16.8	50
56	Selective Dimerization of Propylene with Ni-MFU-4l. *Organometallics*, **2017**, 36, 1681-1683	3.8	45
55	Ligand design for long-range magnetic order in metal-organic frameworks. *Chemical Communications*, **2014**, 50, 13990-3	5.8	44
54	Catalytic Amine Oxidation under Ambient Aerobic Conditions: Mimicry of Monoamine Oxidase B. *Angewandte Chemie - International Edition*, **2015**, 54, 8997-9000	16.4	43
53	Chemical principles for electroactive metal□rganic frameworks. *MRS Bulletin*, **2016**, 41, 870-876	3.2	34
52	Switchable electrical conductivity in a three-dimensional metal-organic framework reversible ligand n-doping. *Chemical Science*, **2019**, 11, 1342-1346	9.4	33
51	An unprecedented {NiSiW} hybrid polyoxometalate with high photocatalytic hydrogen evolution activity. *Chemical Communications*, **2019**, 55, 4166-4169	5.8	31
50	Absorbate-induced piezochromism in a porous molecular crystal. *Nano Letters*, **2015**, 15, 2149-54	11.5	31
49	Three-electron two-centred bonds and the stabilisation of cationic sulfur radicals. *Chemical Science*, **2014**, 5, 1390-1395	9.4	30
48	Metal-free perovskites for non linear optical materials. *Chemical Science*, **2019**, 10, 8187-8194	9.4	29
47	Electronic structure design for nanoporous, electrically conductive zeolitic imidazolate frameworks. *Journal of Materials Chemistry C*, **2017**, 5, 7726-7731	7.1	28
46	One-dimensional Magnus-type platinum double salts. *Nature Communications*, **2016**, 7, 11950	17.4	27
45	Designing porous electronic thin-film devices: band offsets and heteroepitaxy. *Faraday Discussions*, **2017**, 201, 207-219	3.6	26
44	Lone-Pair Stabilization in Transparent Amorphous Tin Oxides: A Potential Route to p-Type Conduction Pathways. *Chemistry of Materials*, **2016**, 28, 4706-4713	9.6	26
43	A Simple and Non-Destructive Method for Assessing the Incorporation of Bipyridine Dicarboxylates as Linkers within Metal-Organic Frameworks. *Chemistry - A European Journal*, **2016**, 22, 3713-8	4.8	26
42	Dithioesters: simple, tunable, cysteine-selective HS donors. *Chemical Science*, **2019**, 10, 1773-1779	9.4	26
41	Toward New 2D Zirconium-Based Metal□rganic Frameworks: Synthesis, Structures, and Electronic Properties. *Chemistry of Materials*, **2020**, 32, 97-104	9.6	25

40	Thermodynamic and electronic properties of tunable III-VI and IV-VI semiconductor based metal-organic frameworks from computational chemistry. *Journal of Materials Chemistry C*, **2013**, 1, 95-100	7.1	23
39	The role of dissolved cations in coffee extraction. *Journal of Agricultural and Food Chemistry*, **2014**, 62, 4947-50	5.7	22
38	Soft Mode Metal-Linker Dynamics in Carboxylate MOFs Evidenced by Variable-Temperature Infrared Spectroscopy. *Journal of the American Chemical Society*, **2020**, 142, 19291-19299	16.4	20
37	Nucleolar Stress Induction by Oxaliplatin and Derivatives. *Journal of the American Chemical Society*, **2019**, 141, 18411-18415	16.4	19
36	The effect of bean origin and temperature on grinding roasted coffee. *Scientific Reports*, **2016**, 6, 24483	4.9	18
35	Catalytic Amine Oxidation under Ambient Aerobic Conditions: Mimicry of Monoamine Oxidase B. *Angewandte Chemie*, **2015**, 127, 9125-9128	3.6	18
34	Realistic Surface Descriptions of Heterometallic Interfaces: The Case of TiWC Coated in Noble Metals. *Journal of Physical Chemistry Letters*, **2016**, 7, 4475-4482	6.4	17
33	What Lies beneath a Metal-Organic Framework Crystal Structure? New Design Principles from Unexpected Behaviors. *Journal of the American Chemical Society*, **2021**, 143, 6705-6723	16.4	16
32	Coordination-induced reversible electrical conductivity variation in the MOF-74 analogue Fe(DSBDC). *Dalton Transactions*, **2018**, 47, 11739-11743	4.3	16
31	Crystal structure optimisation using an auxiliary equation of state. *Journal of Chemical Physics*, **2015**, 143, 184101	3.9	15
30	? Divergent coordination behavior of early-transition metals towards MOF-5. *Chemical Science*, **2019**, 10, 5906-5910	9.4	11
29	Frontier Orbital Engineering of Metal-Organic Frameworks with Extended Inorganic Connectivity: Porous Alkaline-Earth Oxides. *Inorganic Chemistry*, **2016**, 55, 7265-9	5.1	11
28	Titanium(IV) Inclusion as a Versatile Route to Photoactivity in Metal-Organic Frameworks. *Advanced Theory and Simulations*, **2019**, 2, 1900126	3.5	10
27	Rapid Electrochemical Methane Functionalization Involves Pd-Pd Bonded Intermediates. *Journal of the American Chemical Society*, **2020**, 142, 20631-20639	16.4	10
26	Use of Dithiasuccinoyl-Caged Amines Enables COS/H S Release Lacking Electrophilic Byproducts. *Chemistry - A European Journal*, **2020**, 26, 5374-5380	4.8	9
25	Systematically Improving Espresso: Insights from Mathematical Modeling and Experiment. *Matter*, **2020**, 2, 631-648	12.7	9
24	Cyclopropenium (C3H3)+ as an Aromatic Alternative A-Site Cation for Hybrid Halide Perovskite Architectures. *Journal of Physical Chemistry C*, **2018**, 122, 2041-2045	3.8	9
23	Polymorphism of the azobenzene dye compound methyl yellow. *CrystEngComm*, **2016**, 18, 3456-3461	3.3	7

22	Pressure-induced metallicity and piezoreductive transition of metal-centres in conductive 2-dimensional metal-organic frameworks. *Physical Chemistry Chemical Physics*, **2019**, 21, 25773-25778	3.6	7
21	Electroactive Nanoporous Metal Oxides and Chalcogenides by Chemical Design. *Chemistry of Materials*, **2017**, 29, 3663-3670	9.6	6
20	Monofunctional platinum(II) compounds and nucleolar stress: is phenanthriplatin unique?. *Journal of Biological Inorganic Chemistry*, **2019**, 24, 899-908	3.7	6
19	Time-Resolved in Situ Polymorphic Transformation from One 12-Connected Zr-MOF to Another **2020**, 2, 499-504		6
18	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	16.4	6
17	Influence of Nanoarchitecture on Charge Donation and the Electrical-Transport Properties in [(SnSe)1+][TiSe2]q Heterostructures. *Chemistry of Materials*, **2020**, 32, 5802-5813	9.6	4
16	-Methylation of Self-Immolative Thiocarbamates Provides Insights into the Mechanism of Carbonyl Sulfide Release. *Journal of Organic Chemistry*, **2021**, 86, 5443-5451	4.2	4
15	Magnetic coupling in a hybrid Mn(ii) acetylene dicarboxylate. *Physical Chemistry Chemical Physics*, **2016**, 18, 33329-33334	3.6	3
14	On the limit of proton-coupled electronic doping in a Ti(iv)-containing MOF. *Chemical Science*, **2021**, 12, 11779-11785	9.4	3
13	Discovery of CuPb. *Angewandte Chemie - International Edition*, **2018**, 57, 12809-12813	16.4	3
12	Divergent Adsorption Behavior Controlled by Primary Coordination Sphere Anions in the Metal-Organic Framework NiXBTDD. *Journal of the American Chemical Society*, **2021**, 143, 16343-16347	16.4	3
11	Post-synthetic modification of ionic liquids using ligand-exchange and redox coordination chemistry. *Journal of Materials Chemistry A*, **2020**, 8, 22674-22685	13	2
10	A Type I Heterointerface between Amorphous PbI2 Overlayers on Crystalline CsPbI3. *ACS Applied Energy Materials*, **2020**, 3, 10328-10332	6.1	2
9	Electronic Challenges of Retrofitting 2D Electrically Conductive MOFs to Form 3D Conductive Lattices. *ACS Applied Electronic Materials*, **2021**, 3, 2017-2023	4	2
8	Discovery of Cu3Pb. *Angewandte Chemie*, **2018**, 130, 12991-12995	3.6	2
7	Singlet-to-Triplet Spin Transitions Facilitate Selective 1-Butene Formation during Ethylene Dimerization in Ni(II)-MFU-4l. *Journal of Physical Chemistry C*,	3.8	2
6	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	6.1	1
5	Electronic implications of organic nitrogen lone pairs in lead iodide perovskites. *Journal of Materials Chemistry C*, **2018**, 6, 4765-4768	7.1	1

List of Publications

4	Conductivity in Open-Framework Chalcogenides Tuned via Band Engineering and Redox Chemistry. *Chemistry of Materials*, **2022**, 34, 1905-1920	9.6	1
3	Determining Optical Band Gaps of MOFs457-463		1
2	Spectroscopic characterization of Mn and Cd coordination to phosphorothioates in the conserved A9 metal site of the hammerhead ribozyme.. *Journal of Inorganic Biochemistry*, **2022**, 230, 111754	4.2	1
1	Coffee chemistry: Not your average joe. *Science*, **2019**, 365, 553	33.3	