

Brian D Mccarthy

List of Publications by Year in descending order

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26
papers

4,383
citations

394421

19
h-index

526287

27
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29
all docs

29
docs citations

29
times ranked

6205
citing authors

#	ARTICLE	IF	CITATIONS
1	Elemental Depth Profiling of Intact Metal-Organic Framework Single Crystals by Scanning Nuclear Microprobe. <i>Journal of the American Chemical Society</i> , 2021, 143, 18626-18634.	13.7	4
2	Analysis of electrocatalytic metal-organic frameworks. <i>Coordination Chemistry Reviews</i> , 2020, 406, 213137.	18.8	77
3	Enhancing photovoltages at p-type semiconductors through a redox-active metal-organic framework surface coating. <i>Nature Communications</i> , 2020, 11, 5819.	12.8	15
4	Transport Phenomena: Challenges and Opportunities for Molecular Catalysis in Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2020, 142, 11941-11956.	13.7	74
5	Facile Orientational Control of M2L2P SURMOFs on $\sim 100\text{\AA}$ Silicon Substrates and Growth Mechanism Insights for Defective MOFs. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 38294-38302.	8.0	14
6	Post synthetic exchange enables orthogonal click chemistry in a metal organic framework. <i>Dalton Transactions</i> , 2019, 48, 45-49.	3.3	17
7	On decomposition, degradation, and voltammetric deviation: the electrochemist's field guide to identifying precatalyst transformation. <i>Chemical Society Reviews</i> , 2019, 48, 2927-2945.	38.1	92
8	Decoding Proton-Coupled Electron Transfer with Potential-pKa Diagrams: Applications to Catalysis. <i>Inorganic Chemistry</i> , 2019, 58, 6647-6658.	4.0	20
9	A Practical Beginner's Guide to Cyclic Voltammetry. <i>Journal of Chemical Education</i> , 2018, 95, 197-206.	2.3	2,137
10	Decoding Proton-Coupled Electron Transfer with Potential-pKa Diagrams. <i>Inorganic Chemistry</i> , 2017, 56, 1225-1231.	4.0	68
11	Identification of an Electrode-Adsorbed Intermediate in the Catalytic Hydrogen Evolution Mechanism of a Cobalt Dithiolene Complex. <i>Inorganic Chemistry</i> , 2017, 56, 1988-1998.	4.0	29
12	Cultivating Advanced Technical Writing Skills through a Graduate-Level Course on Writing Research Proposals. <i>Journal of Chemical Education</i> , 2017, 94, 696-702.	2.3	15
13	Reaction Pathways of Hydrogen-Evolving Electrocatalysts: Electrochemical and Spectroscopic Studies of Proton-Coupled Electron Transfer Processes. <i>ACS Catalysis</i> , 2016, 6, 3644-3659.	11.2	117
14	Linear Free Energy Relationships in the Hydrogen Evolution Reaction: Kinetic Analysis of a Cobaloxime Catalyst. <i>ACS Catalysis</i> , 2016, 6, 3326-3335.	11.2	89
15	Synthesis and electrochemical characterization of a tridentate Schiff-base ligated Fe(II) complex. <i>Polyhedron</i> , 2016, 114, 200-204.	2.2	10
16	Qualitative extension of the EC ² Zone Diagram to a molecular catalyst for a multi-electron, multi-substrate electrochemical reaction. <i>Dalton Transactions</i> , 2016, 45, 9970-9976.	3.3	37
17	Electrode initiated proton-coupled electron transfer to promote degradation of a nickel(<i>sc</i>) coordination complex. <i>Chemical Science</i> , 2015, 6, 2827-2834.	7.4	55
18	Electrochemical hydrogenation of a homogeneous nickel complex to form a surface adsorbed hydrogen-evolving species. <i>Chemical Communications</i> , 2015, 51, 5290-5293.	4.1	47

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19	Electrochemical Reduction of Brønsted Acids by Glassy Carbon in Acetonitrile—Implications for Electrocatalytic Hydrogen Evolution. <i>Inorganic Chemistry</i> , 2014, 53, 8350-8361.	4.0	211
20	Evaluation of Homogeneous Electrocatalysts by Cyclic Voltammetry. <i>Inorganic Chemistry</i> , 2014, 53, 9983-10002.	4.0	403
21	Charge Transfer or J-Coupling? Assignment of an Unexpected Red-Shifted Absorption Band in a Naphthalenediimide-Based Metal—Organic Framework. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 453-458.	4.6	65
22	Halogen Oxidation and Halogen Photoelimination Chemistry of a Platinum—Rhodium Heterobimetallic Core. <i>Inorganic Chemistry</i> , 2012, 51, 5152-5163.	4.0	31
23	Oxygen Reduction to Water Mediated by a Dirhodium Hydrido-Chloride Complex. <i>Journal of the American Chemical Society</i> , 2011, 133, 8114-8117.	13.7	42
24	Turn-On Fluorescence in Tetraphenylethylene-Based Metal—Organic Frameworks: An Alternative to Aggregation-Induced Emission. <i>Journal of the American Chemical Society</i> , 2011, 133, 20126-20129.	13.7	623
25	Immobilization, Trapping, and Anion Exchange of Perrhenate Ion Using Copper-Based Tripodal Complexes. <i>Inorganic Chemistry</i> , 2011, 50, 9499-9507.	4.0	55
26	Redox Chemistry, Acid Reactivity, and Hydrogenation Reactions of Two-Electron Mixed Valence Diridium and Dirhodium Complexes. <i>Inorganic Chemistry</i> , 2011, 50, 5223-5233.	4.0	35