Dooshaye Moonshiram

List of Publications by Year
in descending order

36 papers	1,184 citations	394421 19 h-index	377865 34 g-index
39 all docs	39 docs citations	39 times ranked	1905 citing authors

#	Article	IF	Citations
1	Deciphering the photophysical kinetics, electronic configurations and structural conformations of iridiumâ€“cobalt hydrogen evolution photocatalysts. Chemical Communications, 2022, 58, 8057-8060.	4.1	3
2	Structure and excited-state dynamics of dimeric copper(i) photosensitizers investigated by time-resolved X-ray and optical transient absorption spectroscopy. Physical Chemistry Chemical Physics, 2021, 23, 3656-3667.	2.8	4
3	Surface-Promoted Evolution of Ru-bda Coordination Oligomers Boosts the Efficiency of Water Oxidation Molecular Anodes. Journal of the American Chemical Society, 2021, 143, 11651-11661.	13.7	28
4	Characterization and reactivity study of non-heme high-valent ironâ€“hydroxo complexes. Chemical Science, 2021, 12, 4418-4424.	7.4	12
5	Magnetic, Mechanically Interlocked Porphyrinâ€“Carbon Nanotubes for Quantum Computation and Spintronics. Journal of the American Chemical Society, 2021, 143, 21286-21293.	13.7	12
6	Spectroscopic Characterisation of a Bioâ€Inspired Niâ€Based Proton Reduction Catalyst Bearing a Pentadentate N₂S₃ Ligand with Improved Photocatalytic Activity. Chemistry - A European Journal, 2020, 26, 2859-2868.	3.3	12
7	Water oxidation electrocatalysis using ruthenium coordination oligomers adsorbed on multiwalled carbon nanotubes. Nature Chemistry, 2020, 12, 1060-1066.	13.6	54
8	Efficient Electrochemical Water Oxidation by a Trinuclear Ru(bda) Macrocycle Immobilized on Multiâ€Walled Carbon Nanotube Electrodes. Advanced Energy Materials, 2020, 10, 2002329.	19.5	20
9	Analysis of the Active Species Responsible for Water Oxidation Using a Pentanuclear Fe Complex. IScience, 2020, 23, 101378.	4.1	19
10	Redox Metalâ€“Ligand Cooperativity Enables Robust and Efficient Water Oxidation Catalysis at Neutral pH with Macrocyclic Copper Complexes. Journal of the American Chemical Society, 2020, 142, 17434-17446.	13.7	59
11	Tracking the Lightâ€Induced Excitedâ€State Dynamics and Structural Configurations of an Extraordinarily Longâ€Lived Metastable State at Room Temperature. Chemistry - A European Journal, 2020, 26, 10801-10810.	3.3	4
12	The Coordination Behaviour of Cu I Photosensitizers Bearing Multidentate Ligands Investigated by Xâ€ray Absorption Spectroscopy. Chemistry - A European Journal, 2020, 26, 9527-9536.	3.3	17
13	Electrochemically and Photochemically Induced Hydrogen Evolution Catalysis with Cobalt Tetraazamacrocycles Occurs Through Different Pathways. ChemSusChem, 2020, 13, 2745-2752.	6.8	14
14	Elucidating the Nature of the Excited State of a Heteroleptic Copper Photosensitizer by using Timeâ€Resolved Xâ€ray Absorption Spectroscopy. Chemistry - A European Journal, 2018, 24, 6464-6472.	3.3	34
15	Dispersive soft x-ray absorption fine-structure spectroscopy in graphite with an attosecond pulse. Optica, 2018, 5, 502.	9.3	47
16	Elucidating light-induced charge accumulation in an artificial analogue of methane monooxygenase enzymes using time-resolved X-ray absorption spectroscopy. Chemical Communications, 2017, 53, 2725-2728.	4.1	5
17	Electronic Ï€-Delocalization Boosts Catalytic Water Oxidation by Cu(II) Molecular Catalysts Heterogenized on Graphene Sheets. Journal of the American Chemical Society, 2017, 139, 12907-12910.	13.7	108
18	Hetero-site-specific X-ray pump-probe spectroscopy for femtosecond intramolecular dynamics. Nature Communications, 2016, 7, 11652.	12.8	70

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19	Mechanistic Evaluation of a Nickel Proton Reduction Catalyst Using Time-Resolved X-ray Absorption Spectroscopy. Journal of Physical Chemistry C, 2016, 120, 20049-20057.	3.1	21
20	Ultrafast x-ray-induced nuclear dynamics in diatomic molecules using femtosecond x-ray-pumpâ€“x-ray-probe spectroscopy. Physical Review A, 2016, 94, .	2.5	24
21	Tracking the Structural and Electronic Configurations of a Cobalt Proton Reduction Catalyst in Water. Journal of the American Chemical Society, 2016, 138, 10586-10596.	13.7	77
22	A Million Turnover Molecular Anode for Catalytic Water Oxidation. Angewandte Chemie, 2016, 128, 15608-15612.	2.0	21
23	A Million Turnover Molecular Anode for Catalytic Water Oxidation. Angewandte Chemie - International Edition, 2016, 55, 15382-15386.	13.8	90
24	Structural and Spectroscopic Characterization of Reaction Intermediates Involved in a Dinuclear Coâ€“Hbpp Water Oxidation Catalyst. Journal of the American Chemical Society, 2016, 138, 15291-15294.	13.7	49
25	Uncovering the Role of Oxygen Atom Transfer in Ru-Based Catalytic Water Oxidation. Journal of the American Chemical Society, 2016, 138, 15605-15616.	13.7	52
26	EPR and X-Ray Spectroscopy Characterization of Reported Mono-Ruthenium Water Splitting Catalysts. Biophysical Journal, 2015, 108, 605a.	0.5	0
27	Studying the Structural and Electronic Configurations during Photocatalytic Activation of O2 at a Diiron(II) Complex. Biophysical Journal, 2015, 108, 605a.	0.5	0
28	Spectroscopic Analysis of Catalytic Water Oxidation by [Ru^{II}(bpy)(tpy)H₂O]²⁺ Suggests That Ru^Vâ•O Is Not a Rate-Limiting Intermediate. Journal of the American Chemical Society, 2014, 136, 11938-11945.	13.7	83
29	Structure and Electronic Configurations of the Intermediates of Water Oxidation in a Highly Active and Robust Molecular Ruthenium Catalyst. Biophysical Journal, 2013, 104, 531a.	0.5	0
30	Electronic Structure Assessment: Combined Density Functional Theory Calculations and Ru L2,3-Edge X-ray Absorption Near-Edge Spectroscopy of Water Oxidation Catalyst. Journal of Physical Chemistry C, 2013, 117, 18994-19001.	3.1	7
31	Experimental demonstration of radicaloid character in a Ru ^V =O intermediate in catalytic water oxidation. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 3765-3770.	7.1	77
32	Mechanism of Catalytic Water Oxidation by the Ruthenium Blue Dimer Catalyst: Comparative Study in D2O versus H2O. Materials, 2013, 6, 392-409.	2.9	30
33	Ru L2,3 XANES theoretical simulation with DFT: A test of the core-hole treatment. Solid State Communications, 2012, 152, 1880-1884.	1.9	9
34	Structure and Electronic Configurations of the Intermediates of Water Oxidation in Blue Ruthenium Dimer Catalysis. Journal of the American Chemical Society, 2012, 134, 4625-4636.	13.7	68
35	Density functional theory simulation of the L2,3 XANES spectra. JETP Letters, 2012, 95, 504-510.	1.4	3
36	Understanding the Electronic Structure of 4d Metal Complexes: From Molecular Spinors to L-Edge Spectra of a di-Ru Catalyst. Journal of the American Chemical Society, 2011, 133, 15786-15794.	13.7	50