Dugan Hayes

List of Publications by Year
in descending order

30 papers	2,598 citations	394421 19 h-index	414414 32 g-index
32 all docs	32 docs citations	32 times ranked	4067 citing authors

#	Article	IF	Citations
1	Interplays of electron and nuclear motions along CO dissociation trajectory in myoglobin revealed by ultrafast X-rays and quantum dynamics calculations. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	10
2	Real-Time Investigation of Sn(II) Oxidation in Pb-Free Halide Perovskites by X-ray Absorption and MÃ¶ssbauer Spectroscopy. ACS Applied Energy Materials, 2021, 4, 4327-4332.	5.1	9
3	Detection of high-valent iron species in alloyed oxidic cobaltates for catalysing the oxygen evolution reaction. Nature Communications, 2021, 12, 4218.	12.8	38
4	Mechanisms of the Cu(I)-Catalyzed Intermolecular Photocycloaddition Reaction Revealed by Optical and X-ray Transient Absorption Spectroscopies. Journal of the American Chemical Society, 2021, 143, 19356-19364.	13.7	7
5	Charge generation mechanism tuned via film morphology in small molecule bulk-heterojunction photovoltaic materials. Journal of Materials Chemistry C, 2020, 8, 15234-15252.	5.5	8
6	Template-stabilized oxidic nickel oxygen evolution catalysts. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 16187-16192.	7.1	41
7	Ligand Mediation of Vectorial Charge Transfer in Cu(I)diimine Chromophoreâ€“Acceptor Dyads. Journal of Physical Chemistry Letters, 2018, 9, 2070-2076.	4.6	18
8	Excited state electron and energy relays in supramolecular dinuclear complexes revealed by ultrafast optical and X-ray transient absorption spectroscopy. Chemical Science, 2018, 9, 860-875.	7.4	39
9	The Nature of the Longâ€Lived Excited State in a Ni^{II} Phthalocyanine Complex Investigated by Xâ€Ray Transient Absorption Spectroscopy. ChemSusChem, 2018, 11, 2421-2428.	6.8	11
10	Influence of iron doping on tetravalent nickel content in catalytic oxygen evolving films. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 1486-1491.	7.1	488
11	Scalable Ligand-Mediated Transport Synthesis of Organicâ€“Inorganic Hybrid Perovskite Nanocrystals with Resolved Electronic Structure and Ultrafast Dynamics. ACS Nano, 2017, 11, 2689-2696.	14.6	62
12	In situ characterization of cofacial Co(IV) centers in Co ₄ O ₄ cubane: Modeling the high-valent active site in oxygen-evolving catalysts. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 3855-3860.	7.1	93
13	Synthesis, structure, and excited state kinetics of heteroleptic Cu(<scp>i</scp>) complexes with a new sterically demanding phenanthroline ligand. Dalton Transactions, 2017, 46, 13088-13100.	3.3	56
14	Transient Melting and Recrystallization of Semiconductor Nanocrystals Under Multiple Electronâ€“Hole Pair Excitation. Nano Letters, 2017, 17, 5314-5320.	9.1	23
15	Ultrafast dynamics of two copper bis-phenanthroline complexes measured by x-ray transient absorption spectroscopy. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 154006.	1.5	12
16	X-ray Spectroscopic Characterization of Co(IV) and Metalâ€“Metal Interactions in Co₄O₄: Electronic Structure Contributions to the Formation of High-Valent States Relevant to the Oxygen Evolution Reaction. Journal of the American Chemical Society, 2016, 138, 11017-11030.	13.7	94
17	Electronic and nuclear contributions to time-resolved optical and X-ray absorption spectra of hematite and insights into photoelectrochemical performance. Energy and Environmental Science, 2016, 9, 3754-3769.	30.8	97
18	Synthesis, structure, ultrafast kinetics, and light-induced dynamics of CuHETPHEN chromophores. Dalton Transactions, 2016, 45, 9871-9883.	3.3	49

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19	Pushing Single-Oxygen-Atom-Bridged Bimetallic Systems to the Right: A Cryptand-Encapsulated Coâ€“Oâ€“Co Unit. Journal of the American Chemical Society, 2015, 137, 15354-15357.	13.7	9
20	Response to Comment on â€œEngineering coherence among excited states in synthetic heterodimer systemsâ€. Science, 2014, 344, 1099-1099.	12.6	5
21	Water-exchange rates of lanthanide ions in an ionic liquid. Dalton Transactions, 2014, 43, 16156-16159.	3.3	10
22	Engineering Coherence Among Excited States in Synthetic Heterodimer Systems. Science, 2013, 340, 1431-1434.	12.6	124
23	Two-dimensional electronic spectroscopy of bacteriochlorophyll a in solution: Elucidating the coherence dynamics of the Fenna-Matthews-Olson complex using its chromophore as a control. Journal of Chemical Physics, 2012, 137, 125101.	3.0	39
24	Towards a coherent picture of excitonic coherence in the Fennaâ€“Matthewsâ€“Olson complex. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 154013.	1.5	29
25	Peak shape analysis of diagonal and off-diagonal features in the two-dimensional electronic spectra of the Fennaâ€“Matthewsâ€“Olson complex. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2012, 370, 3692-3708.	3.4	10
26	Robustness of electronic coherence in the Fennaâ€“Matthewsâ€“Olson complex to vibronic and structural modifications. Faraday Discussions, 2011, 150, 459.	3.2	58
27	Extracting the Excitonic Hamiltonian of the Fenna-Matthews-Olson Complex Using Three-Dimensional Third-Order Electronic Spectroscopy. Biophysical Journal, 2011, 100, 2043-2052.	0.5	72
28	Dynamics of electronic dephasing in the Fennaâ€“Matthewsâ€“Olson complex. New Journal of Physics, 2010, 12, 065042.	2.9	50
29	Long-lived quantum coherence in photosynthetic complexes at physiological temperature. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 12766-12770.	7.1	886
30	New Strategy for Quantifying Biological Zinc by a Modified Zinpyr Fluorescence Sensor. Journal of the American Chemical Society, 2008, 130, 15788-15789.	13.7	149