

Dugan Hayes

List of Publications by Year in descending order

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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	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
2	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
3	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
4	Engineering Coherence Among Excited States in Synthetic Heterodimer Systems. Science, 2013, 340, 1431-1434.	12.6	124
5	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
6	X-ray Spectroscopic Characterization of Co(IV) and Metal-Metal Interactions in Co ₄ O ₄ : 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
7	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
8	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
9	Scalable Ligand-Mediated Transport Synthesis of Organic-Inorganic Hybrid Perovskite Nanocrystals with Resolved Electronic Structure and Ultrafast Dynamics. ACS Nano, 2017, 11, 2689-2696.	14.6	62
10	Robustness of electronic coherence in the Fenna-Matthews-Olson complex to vibronic and structural modifications. Faraday Discussions, 2011, 150, 459.	3.2	58
11	Synthesis, structure, and excited state kinetics of heteroleptic Cu(<i>scp</i>) complexes with a new sterically demanding phenanthroline ligand. Dalton Transactions, 2017, 46, 13088-13100.	3.3	56
12	Dynamics of electronic dephasing in the Fenna-Matthews-Olson complex. New Journal of Physics, 2010, 12, 065042.	2.9	50
13	Synthesis, structure, ultrafast kinetics, and light-induced dynamics of CuHETPHEN chromophores. Dalton Transactions, 2016, 45, 9871-9883.	3.3	49
14	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
15	Two-dimensional electronic spectroscopy of bacteriochlorophyll <i>a</i> 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
16	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
17	Detection of high-valent iron species in alloyed oxidic cobaltates for catalysing the oxygen evolution reaction. Nature Communications, 2021, 12, 4218.	12.8	38
18	Towards a coherent picture of excitonic coherence in the Fenna-Matthews-Olson complex. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 154013.	1.5	29

#	ARTICLE	IF	CITATIONS
19	Transient Melting and Recrystallization of Semiconductor Nanocrystals Under Multiple Electron-Hole Pair Excitation. Nano Letters, 2017, 17, 5314-5320.	9.1	23
20	Ligand Mediation of Vectorial Charge Transfer in Cu(I)diimine Chromophore-Acceptor Dyads. Journal of Physical Chemistry Letters, 2018, 9, 2070-2076.	4.6	18
21	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
22	The Nature of the Long-Lived Excited State in a Ni ^{II} Phthalocyanine Complex Investigated by X-Ray Transient Absorption Spectroscopy. ChemSusChem, 2018, 11, 2421-2428.	6.8	11
23	Peak shape analysis of diagonal and off-diagonal features in the two-dimensional electronic spectra of the Fenna-Matthews-Olson complex. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2012, 370, 3692-3708.	3.4	10
24	Water-exchange rates of lanthanide ions in an ionic liquid. Dalton Transactions, 2014, 43, 16156-16159.	3.3	10
25	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
26	Pushing Single-Oxygen-Atom-Bridged Bimetallic Systems to the Right: A Cryptand-Encapsulated Co-O-Co Unit. Journal of the American Chemical Society, 2015, 137, 15354-15357.	13.7	9
27	Real-Time Investigation of Sn(II) Oxidation in Pb-Free Halide Perovskites by X-ray Absorption and Mössbauer Spectroscopy. ACS Applied Energy Materials, 2021, 4, 4327-4332.	5.1	9
28	Charge generation mechanism tuned <i>via</i> film morphology in small molecule bulk-heterojunction photovoltaic materials. Journal of Materials Chemistry C, 2020, 8, 15234-15252.	5.5	8
29	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
30	Response to Comment on "Engineering coherence among excited states in synthetic heterodimer systems". Science, 2014, 344, 1099-1099.	12.6	5