Edward D Lorance

List of Publications by Year
in descending order

24	598	567281 15	610901 24
papers	citations	h-index	g-index

26	26	26	652
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Kinetics of Reductive Nâˆ’O Bond Fragmentation:Â The Role of a Conical Intersection. Journal of the American Chemical Society, 2002, 124, 15225-15238.	13.7	83
2	Synthesis, Properties, Oxidation, and Electrochemistry of 1,2-Dichalcogenins. Journal of the American Chemical Society, 2000, 122, 5052-5064.	13.7	67
3	Reversible Electrochemical Trapping of Carbon Dioxide Using 4,4â€²-Bipyridine That Does Not Require Thermal Activation. Journal of Physical Chemistry Letters, 2015, 6, 4943-4946.	4.6	54
4	Neighboring Amide Participation in Thioether Oxidation: Relevance to Biological Oxidation. Journal of the American Chemical Society, 2009, 131, 13791-13805.	13.7	47
5	Kinetics and Mechanisms of Dehydration of Secondary Alcohols Under Hydrothermal Conditions. ACS Earth and Space Chemistry, 2018, 2, 821-832.	2.7	36
6	Barrierless Electron Transfer Bond Fragmentation Reactions. Journal of the American Chemical Society, 2004, 126, 14071-14078.	13.7	34
7	Electrochemical and Chemical Oxidation of Dithia-, Diselena-, Ditellura-, Selenathia-, and Tellurathiamesocycles and Stability of the Oxidized Species. Journal of Organic Chemistry, 2010, 75, 1997-2009.	3.2	29
8	Gas-Phase Photoelectron Spectroscopic and Theoretical Studies of 1,2-Dichalcogenins:Â Ionization Energies, Orbital Assignments, and an Explanation of Their Color. Journal of the American Chemical Society, 2000, 122, 5065-5074.	13.7	27
9	Neighboring Pyrrolidine Amide Participation in Thioether Oxidation. Methionine as a â€œHoppingâ€•Site. Organic Letters, 2011, 13, 2837-2839.	4.6	23
10	Synthesis, Electrochemistry, and Gas-Phase Photoelectron Spectroscopic and Theoretical Studies of 3,6-Bis(perfluoroalkyl)-1,2-dithiins. Journal of Organic Chemistry, 2003, 68, 8110-8114.	3.2	21
11	Mechanisms of decarboxylation of phenylacetic acids and their sodium salts in water at high temperature and pressure. Geochimica Et Cosmochimica Acta, 2020, 269, 597-621.	3.9	20
12	Density Functional Theory Predicts the Barriers for Radical Fragmentation in Solution. Journal of Organic Chemistry, 2005, 70, 2014-2020.	3.2	19
13	Synthesis, Gas-Phase Photoelectron Spectroscopic, and Theoretical Studies of Stannylated Dinuclear Iron Dithiolates. Inorganic Chemistry, 2005, 44, 5728-5737.	4.0	19
14	Hydrothermal Photochemistry as a Mechanistic Tool in Organic Geochemistry: The Chemistry of Dibenzyl Ketone. Journal of Organic Chemistry, 2014, 79, 7861-7871.	3.2	19
15	The Siâˆ’Si Effect on Ionization of Î²-Disilanyl Sulfides and Selenides. Journal of the American Chemical Society, 2006, 128, 12685-12692.	13.7	15
16	Mineral-assisted production of benzene under hydrothermal conditions: Insights from experimental studies on C 6 cyclic hydrocarbons. Journal of Volcanology and Geothermal Research, 2017, 346, 21-27.	2.1	14
17	Interaction of Câˆ’Si, Câˆ’Sn, and Siâˆ’Si Ïƒ-Bonds with Chalcogen Lone Pairs. Journal of Organic Chemistry, 2007, 72, 8290-8297.	3.2	13
18	Synthesis, structure, reactions, and photoelectron spectra of new mixed sulfurâ€, seleniumâ€•or tellurium and siliconâ€•or tinâ€•containing heterocycles. Heteroatom Chemistry, 2007, 18, 509-515.	0.7	12

#	Article	IF	Citations
19	Selective hydrothermal reductions using geomimicry. Green Chemistry, 2019, 21, 4159-4168.	9.0	11
20	A Quantitative Curve-Crossing Model for Radical Fragmentation. Journal of Physical Chemistry A, 2005, 109, 2912-2919.	2.5	10
21	Kinetics of Proton Transfer from Cationic Carbon Acids in Water and Aqueous DMSO. Effect of Activating Groups and Solvent on Intrinsic Rate Constants. Journal of Organic Chemistry, 2005, 70, 7721-7730.	3.2	9
22	Nâ€Alkoxyheterocycles As Irreversible Photooxidants. Photochemistry and Photobiology, 2014, 90, 313-328.	2.5	7
23	Chemistry of Mixed Sulfur-, Selenium-, or Tellurium- and Silicon-, or Tin-Containing Heterocycles. Phosphorus, Sulfur and Silicon and the Related Elements, 2008, 183, 856-862.	1.6	5
24	Understanding the Solvent Contribution to Chemical Reaction Barriers. Journal of Physical Chemistry A, 2019, 123, 10490-10499.	2.5	4