

Eric V Patterson

List of Publications by Year in descending order

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29
papers

1,431
citations

430843

18
h-index

477281

29
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30
all docs

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docs citations

30
times ranked

1630
citing authors

#	ARTICLE	IF	CITATIONS
1	Ionic Liquids Based on FeCl ₃ and FeCl ₂ . Raman Scattering and ab Initio Calculations. <i>Inorganic Chemistry</i> , 2001, 40, 2298-2304.	4.0	314
2	The C ₇ H ₆ Potential Energy Surface Revisited: Relative Energies and IR Assignment. <i>Journal of the American Chemical Society</i> , 1996, 118, 1535-1542.	13.7	155
3	Structures, Automerizations, and Isomerizations of C ₃ H ₂ Isomers. <i>Journal of the American Chemical Society</i> , 1997, 119, 5847-5856.	13.7	141
4	Reductive Dechlorination of Hexachloroethane in the Environment: Mechanistic Studies via Computational Electrochemistry. <i>Journal of the American Chemical Society</i> , 2001, 123, 2025-2031.	13.7	88
5	Impact of Solvent Polarity on N-Heterocyclic Carbene-Catalyzed $\hat{\text{I}}^2$ -Protonations of Homoenoate Equivalents. <i>Organic Letters</i> , 2009, 11, 3942-3945.	4.6	73
6	Product-to-Parent Reversion of Trenbolone: Unrecognized Risks for Endocrine Disruption. <i>Science</i> , 2013, 342, 347-351.	12.6	73
7	Ab Initio Molecular Orbital and Density Functional Studies on the Solvolysis of Sarin and O,S-Dimethyl Methylphosphonothiolate, a VX-like Compound. <i>Journal of Organic Chemistry</i> , 2005, 70, 8649-8660.	3.2	72
8	Photocatalytic Radical Aroylation of Unactivated Alkenes: Pathway to $\hat{\text{I}}^2$ -Functionalized 1,4-, 1,6-, and 1,7-Diketones. <i>ACS Catalysis</i> , 2019, 9, 10358-10364.	11.2	66
9	Nitrogen and Oxygen Donors in Nonlinear Optical Materials: $\hat{\text{A}}$ Effects of Alkyl vs Phenyl Substitution on the Molecular Hyperpolarizability. <i>Journal of the American Chemical Society</i> , 1996, 118, 9966-9973.	13.7	65
10	Structure of Triplet Propynylidene. <i>Journal of the American Chemical Society</i> , 1995, 117, 835-836.	13.7	57
11	On Gas Phase $\hat{\text{I}}^{\pm}$ -Effects. 1. The Gas-Phase Manifestation and Potential SET Character. <i>Journal of Organic Chemistry</i> , 2006, 71, 8121-8125.	3.2	43
12	Structure of Triplet Propynylidene (HCCCH) as Probed by IR, UV/vis, and EPR Spectroscopy of Isotopomers. <i>Journal of the American Chemical Society</i> , 2009, 131, 9442-9455.	13.7	39
13	Rearrangements of C ₇ H ₆ Isomers: $\hat{\text{A}}$ Computational Studies of the Interconversions of Bicyclo[3.2.0]hepta-1,3,6-triene, Bicyclo[3.2.0]hepta-3,6-diene-2-ylidene, Bicyclo[3.2.0]hepta-2,3,6-triene, and Cyclohepta-1,2,4,6-tetraene. <i>Journal of Organic Chemistry</i> , 1997, 62, 4398-4405.	3.2	38
14	Computational studies on the solvolysis of the chemical warfare agent VX. <i>Journal of Physical Organic Chemistry</i> , 2008, 21, 321-328.	1.9	36
15	Molecular orbital calculations on the P-S bond cleavage step in the hydroperoxidolysis of nerve agent VX. <i>Journal of Physical Organic Chemistry</i> , 1998, 11, 232-240.	1.9	26
16	Computational Studies of CO ₂ Activation via Photochemical Reactions with Reduced Sulfur Compounds. <i>Journal of Physical Chemistry A</i> , 2012, 116, 9331-9339.	2.5	25
17	Quantum mechanical calculations on the reaction of ethoxide anion with O,S-dimethyl methylphosphonothiolate. <i>Computational and Theoretical Chemistry</i> , 2007, 811, 281-291.	1.5	18
18	Effects of Cyano Substituents on Cyclobutadiene and Its Isomers. <i>Journal of Physical Chemistry A</i> , 2010, 114, 6431-6437.	2.5	18

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19	Atropselective Oxidation of 2,2,3,3,4,4,6,6-Hexachlorobiphenyl (PCB 132) to Hydroxylated Metabolites by Human Liver Microsomes and Its Implications for PCB 132 Neurotoxicity. <i>Toxicological Sciences</i> , 2019, 171, 406-420.	3.1	15
20	Reversible Photohydration of Trenbolone Acetate Metabolites: Mechanistic Understanding of Product-to-Parent Reversion through Complementary Experimental and Theoretical Approaches. <i>Environmental Science & Technology</i> , 2016, 50, 6753-6761.	10.0	14
21	Atom-Centered Density Matrix Propagation Calculations on the Methyl Transfer from CH ₃ Cl to NH ₃ : Gas-Phase and Continuum-Solvated Trajectories. <i>Journal of Chemical Theory and Computation</i> , 2007, 3, 336-343.	5.3	12
22	Backbone-Base Interactions Critical to Quantum Stabilization of Transfer RNA Anticodon Structure. <i>Journal of Physical Chemistry B</i> , 2013, 117, 7489-7497.	2.6	11
23	H ₂ -Mediated Thermal and Photochemical Methane Activation. <i>ChemPhysChem</i> , 2013, 14, 3960-3970.	2.1	9
24	Intramolecular [2 + 2] Photocycloaddition of Altrenogest: Confirmation of Product Structure, Theoretical Mechanistic Insight, and Bioactivity Assessment. <i>Journal of Organic Chemistry</i> , 2019, 84, 11366-11371.	3.2	6
25	Computational Approaches for the Prediction of Environmental Transformation Products: Chlorination of Steroidal Enones. <i>Environmental Science & Technology</i> , 2021, 55, 14658-14666.	10.0	6
26	Fluorescence of substituted pyrrolyl pyridines. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2004, 163, 463-471.	3.9	5
27	Acid- and Base-Mediated Hydrolysis of Dichloroacetamide Herbicide Safeners. <i>Environmental Science & Technology</i> , 2022, 56, 325-334.	10.0	4
28	2-Amino-5-(3,4-dimethoxybenzylidene)-1-methylimidazol-4(5 <i>H</i>)-one <i>N,N</i> -dimethylformamide monosolvate. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2010, 66, o101-o103.	0.4	1
29	Building Shape-Persistent Arylene Ethynylene Macrocycles as Scaffolds for 1,4-Diiodobutadiyne. <i>Journal of Organic Chemistry</i> , 2020, 85, 7641-7647.	3.2	1