Eric V Patterson

List of Publications by Year
in descending order

29 papers	1,431 citations	430843 18 h-index	477281 29 g-index
30 all docs	30 docs citations	30 times ranked	1630 citing authors

#	Article	IF	Citations
1	Acid- and Base-Mediated Hydrolysis of Dichloroacetamide Herbicide Safeners. Environmental Science & Technology, 2022, 56, 325-334.	10.0	4
2	Computational Approaches for the Prediction of Environmental Transformation Products: Chlorination of Steroidal Enones. Environmental Science & Technology, 2021, 55, 14658-14666.	10.0	6
3	Building Shape-Persistent Arylene Ethynylene Macrocycles as Scaffolds for 1,4-Diiodobutadiyne. Journal of Organic Chemistry, 2020, 85, 7641-7647.	3.2	1
4	Intramolecular [2 + 2] Photocycloaddition of Altrenogest: Confirmation of Product Structure, Theoretical Mechanistic Insight, and Bioactivity Assessment. Journal of Organic Chemistry, 2019, 84, 11366-11371.	3.2	6
5	Atropselective Oxidation of 2,2â€²,3,3â€²,4,6â€²-Hexachlorobiphenyl (PCB 132) to Hydroxylated Metabolites by Human Liver Microsomes and Its Implications for PCB 132 Neurotoxicity. Toxicological Sciences, 2019, 171, 406-420.	3.1	15
6	Photocatalytic Radical Aroylation of Unactivated Alkenes: Pathway to Î²-Functionalized 1,4-, 1,6-, and 1,7-Diketones. ACS Catalysis, 2019, 9, 10358-10364.	11.2	66
7	Reversible Photohydration of Trenbolone Acetate Metabolites: Mechanistic Understanding of Product-to-Parent Reversion through Complementary Experimental and Theoretical Approaches. Environmental Science & Technology, 2016, 50, 6753-6761.	10.0	14
8	Backboneâ€“Base Interactions Critical to Quantum Stabilization of Transfer RNA Anticodon Structure. Journal of Physical Chemistry B, 2013, 117, 7489-7497.	2.6	11
9	Product-to-Parent Reversion of Trenbolone: Unrecognized Risks for Endocrine Disruption. Science, 2013, 342, 347-351.	12.6	73
10	H₂Sâ€Mediated Thermal and Photochemical Methane Activation. ChemPhysChem, 2013, 14, 3960-3970.	2.1	9
11	Computational Studies of CO₂ Activation via Photochemical Reactions with Reduced Sulfur Compounds. Journal of Physical Chemistry A, 2012, 116, 9331-9339.	2.5	25
12	2-Amino-5-(3,4-dimethoxybenzylidene)-1-methylimidazol-4(5H)-oneN,N-dimethylformamide monosolvate. Acta Crystallographica Section C: Crystal Structure Communications, 2010, 66, o101-o103.	0.4	1
13	Effects of Cyano Substituents on Cyclobutadiene and Its Isomers. Journal of Physical Chemistry A, 2010, 114, 6431-6437.	2.5	18
14	Structure of Triplet Propynylidene (HCCCH) as Probed by IR, UV/vis, and EPR Spectroscopy of Isotopomers. Journal of the American Chemical Society, 2009, 131, 9442-9455.	13.7	39
15	Impact of Solvent Polarity on N-Heterocyclic Carbene-Catalyzed Î²-Protonations of Homoenolate Equivalents. Organic Letters, 2009, 11, 3942-3945.	4.6	73
16	Computational studies on the solvolysis of the chemical warfare agent VX. Journal of Physical Organic Chemistry, 2008, 21, 321-328.	1.9	36
17	Atom-Centered Density Matrix Propagation Calculations on the Methyl Transfer from CH3Cl to NH3:â€‰ Gas-Phase and Continuum-Solvated Trajectories. Journal of Chemical Theory and Computation, 2007, 3, 336-343.	5.3	12
18	Quantum mechanical calculations on the reaction of ethoxide anion with O,S-dimethyl methylphosphonothiolate. Computational and Theoretical Chemistry, 2007, 811, 281-291.	1.5	18

#	Article	IF	Citations
19	On Gas Phase Î±-Effects. 1. The Gas-Phase Manifestation and Potential SET Character. Journal of Organic Chemistry, 2006, 71, 8121-8125.	3.2	43
20	Ab Initio Molecular Orbital and Density Functional Studies on the Solvolysis of Sarin andO,S-Dimethyl Methylphosphonothiolate, a VX-like Compound. Journal of Organic Chemistry, 2005, 70, 8649-8660.	3.2	72
21	Fluorescence of substituted pyrrolyl pyridines. Journal of Photochemistry and Photobiology A: Chemistry, 2004, 163, 463-471.	3.9	5
22	Ionic Liquids Based on FeCl3and FeCl2. Raman Scattering and ab Initio Calculations. Inorganic Chemistry, 2001, 40, 2298-2304.	4.0	314
23	Reductive Dechlorination of Hexachloroethane in the Environment: Mechanistic Studies via Computational Electrochemistry. Journal of the American Chemical Society, 2001, 123, 2025-2031.	13.7	88
24	Molecular orbital calculations on the P?S bond cleavage step in the hydroperoxidolysis of nerve agent VX. Journal of Physical Organic Chemistry, 1998, 11, 232-240.	1.9	26
25	Structures, Automerizations, and Isomerizations of C3H2Isomers. Journal of the American Chemical Society, 1997, 119, 5847-5856.	13.7	141
26	Rearrangements of C7H6Isomers:Â 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 Cycloheptа-1,2,4,6-tetraene. Journal of Organic Chemistry, 1997, 62, 4398-4405.	3.2	38
27	Nitrogen and Oxygen Donors in Nonlinear Optical Materials:Â Effects of Alkyl vs Phenyl Substitution on the Molecular Hyperpolarizability. Journal of the American Chemical Society, 1996, 118, 9966-9973.	13.7	65
28	The C7H6 Potential Energy Surface Revisited: Relative Energies and IR Assignment. Journal of the American Chemical Society, 1996, 118, 1535-1542.	13.7	155
29	Structure of Triplet Propynylidene. Journal of the American Chemical Society, 1995, 117, 835-836.	13.7	57