Eric D Glendening

List of Publications by Year
in descending order

27 papers	3,690 citations	471509 17 h-index	501196 28 g-index
28 all docs	28 docs citations	28 times ranked	4295 citing authors

#	Article	IF	Citations
1	NBO 6.0: Natural bond orbital analysis program. Journal of Computational Chemistry, 2013, 34, 1429-1437.	3.3	1,269
2	Natural bond orbital methods. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2012, 2, 1-42.	14.6	1,153
3	NBO 7.0: New vistas in localized and delocalized chemical bonding theory. Journal of Computational Chemistry, 2019, 40, 2234-2241.	3.3	249
4	Natural Energy Decomposition Analysis:â€‰ Extension to Density Functional Methods and Analysis of Cooperative Effects in Water Clusters. Journal of Physical Chemistry A, 2005, 109, 11936-11940.	2.5	245
5	The role of delocalization in benzene. Journal of the American Chemical Society, 1993, 115, 10952-10957.	13.7	100
6	Efficient optimization of natural resonance theory weightings and bond orders by gramâ€based convex programming. Journal of Computational Chemistry, 2019, 40, 2028-2035.	3.3	91
7	Observation of an Eclipsed Csp3-CH3 Bond in a Tricyclic Orthoamide; Experimental and Theoretical Evidence for Cï£¿Hâ*ƒ*›O Hydrogen Bonds. Angewandte Chemie International Edition in English, 1987, 26, 1175-1177.	4.4	87
8	Resonance in Formamide and Its Chalcogen Replacement Analogues:â€‰ A Natural Population Analysis/Natural Resonance Theory Viewpoint. Journal of the American Chemical Society, 1997, 119, 12940-12946.	13.7	76
9	Common Textbook and Teaching Misrepresentations of Lewis Structures. Journal of Chemical Education, 1995, 72, 583.	2.3	57
10	Ab initio calculations of nitrogen oxide reactions: Formation of N2O2, N2O3, N2O4, N2O5, and N4O2 from NO, NO2, NO3, and N2O. Journal of Chemical Physics, 2007, 127, 164307.	3.0	52
11	Kinetics and Mechanism of the Reversible Dissociation of Ammonium Carbamate:â€‰ Involvement of Carbamic Acid. Journal of Physical Chemistry A, 1998, 102, 3934-3941.	2.5	47
12	Resonance Theory Reboot. Journal of the American Chemical Society, 2019, 141, 4156-4166.	13.7	45
13	The Inversion Potential of Ammonia: An Intrinsic Reaction Coordinate Calculation for Student Investigation. Journal of Chemical Education, 2007, 84, 1067.	2.3	25
14	Ab Initio Study of Cyclobutane:Â Molecular Structure, Ring-Puckering Potential, and Origin of the Inversion Barrier. Journal of Physical Chemistry A, 2005, 109, 635-642.	2.5	21
15	An intrinsic reaction coordinate calculation of the torsional potential in ethane: Comparison of the computationally and experimentally derived torsional transitions and the rotational barrier. Journal of Chemical Physics, 2003, 119, 11186-11191.	3.0	20
16	Influence of Resonance on the Acidity of Sulfides, Sulfoxides, Sulfones, and Their Group 16 Congeners. Journal of Physical Chemistry A, 2005, 109, 4966-4972.	2.5	18
17	The Electronic Spectroscopy and Photophysics of Piperidine in the Vapor Phase. Journal of Physical Chemistry A, 2000, 104, 11733-11738.	2.5	14
18	H Atom and H2Elimination from Y + C2H2. Journal of Physical Chemistry A, 2004, 108, 10165-10172.	2.5	14

#	Article	IF	Citations
19	Mechanism of Acetyleneâ^'Vinylidene Rearrangement with Na, Al, and Y Atoms. Journal of Physical Chemistry A, 2002, 106, 7338-7347.	2.5	12
20	Natural resonance theory. I. General formalism. Journal of Computational Chemistry, 2000, 21, 411-413.	3.3	11
21	Paulingâ€™s Conceptions of Hybridization and Resonance in Modern Quantum Chemistry. Molecules, 2021, 26, 4110.	3.8	11
22	Structure and Energetics of Gd(III) Interactions with Water and Ammonia. Journal of Physical Chemistry B, 2001, 105, 1489-1493.	2.6	8
23	To Be or Not to Be: Demystifying the 2ndâ€Quantized Picture of Complex Electronic Configuration Patterns in Chemistry with Natural Polyâ€Electron Population Analysis. Journal of Computational Chemistry, 2019, 40, 1509-1520.	3.3	7
24	Coupled Cluster Studies of Platinumâ€“Actinide Interactions. Thermochemistry of PtAnOⁿ⁺ (n = 0â€“2 and An = U, Np, Pu). Journal of Physical Chemistry A, 2021, 125, 5335-5345.	2.5	6
25	Coupled Cluster Study of the Interactions of AnO₂, AnO₂⁺, and AnO₂²⁺ (An = U, Np) with N₂ and CO. Inorganic Chemistry, 2020, 59, 4753-4763.	4.0	4
26	Spektri-Sim: Interactive Simulation and Analysis of the Infrared Spectra of Diatomic Molecules. Journal of Chemical Education, 2001, 78, 824.	2.3	3
27	Comment on â€œSuperposition of Waves or Densities: Which Is the Nature of Chemical Resonance?â€•[J. Comput. Chem. 2021, 42, 412â€“417]. Journal of Computational Chemistry, 2021, 42, 1338-1340.	3.3	2