

Demetrios Xenides

List of Publications by Year in descending order

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34
papers

873
citations

567281

15
h-index

501196

28
g-index

35
all docs

35
docs citations

35
times ranked

557
citing authors

#	ARTICLE	IF	CITATIONS
1	Ab initio quantum mechanical charge field (QMCF) molecular dynamics: a QM/MM $\hat{=}$ MD procedure for accurate simulations of ions and complexes. <i>Theoretical Chemistry Accounts</i> , 2006, 115, 77-85.	1.4	183
2	Structure and ultrafast dynamics of liquid water: A quantum mechanics/molecular mechanics molecular dynamics simulations study. <i>Journal of Chemical Physics</i> , 2005, 122, 174506.	3.0	106
3	Dipole, dipole $\hat{=}$ quadrupole, and dipole $\hat{=}$ octopole polarizability of adamantane, C ₁₀ H ₁₆ , from refractive index measurements, depolarized collision-induced light scattering, conventionalab initioand density functional theory calculations. <i>Journal of Chemical Physics</i> , 2001, 115, 7957-7967.	3.0	92
4	Hydrogen bonding in liquid water: An ab initio QM/MM MD simulation study. <i>Journal of Molecular Liquids</i> , 2006, 123, 61-67.	4.9	63
5	Basis set and electron correlation effects on the first and second static hyperpolarizability of SO ₂ . <i>Chemical Physics Letters</i> , 2000, 319, 618-624.	2.6	55
6	Enhanced Linear and Nonlinear Polarizabilities for the Li ₄ Cluster. How Satisfactory Is the Agreement between Theory and Experiment for the Static Dipole Polarizability?. <i>Journal of Physical Chemistry A</i> , 1999, 103, 4590-4593.	2.5	49
7	New basis sets for xenon and the interaction polarizability of two xenon atoms. <i>Chemical Physics Letters</i> , 2004, 396, 59-65.	2.6	43
8	Interaction dipole moment, polarizability and hyperpolarizability in the KrXe heterodiatom. <i>Chemical Physics</i> , 2005, 309, 271-275.	1.9	37
9	Electric dipole and quadrupole moment and dipole polarizability of CS, SiO and SiS. <i>Molecular Physics</i> , 2000, 98, 481-491.	1.7	29
10	Electric Quadrupole and Hexadecapole Moment, Dipole and Quadrupole Polarizability, Second Electric Dipole Hyperpolarizability for P ₂ , and a Comparative Study of Molecular Polarization in N ₂ , P ₂ , and As ₂ . <i>Journal of Physical Chemistry A</i> , 2003, 107, 712-719.	2.5	23
11	The polarizabilities of small stoichiometric aluminum phosphide clusters Al _n P _n (n=2 $\hat{=}$ 9). Ab initio and density functional investigation. <i>Chemical Physics Letters</i> , 2008, 457, 137-142.	2.6	22
12	Comparison of high-level post-Hartree $\hat{=}$ Fock and DFT methods on the calculation of interaction-induced electric properties of Kr $\hat{=}$ He. <i>Chemical Physics</i> , 2011, 382, 80-87.	1.9	21
13	Polarizability evolution on natural and artificial low dimensional binary semiconductor systems: A case study of stoichiometric aluminum phosphide semiconductor clusters. <i>Journal of Chemical Physics</i> , 2008, 129, 094708.	3.0	20
14	A critical analysis of the performance of new generation functionals on the calculation of the (hyper) polarizabilities of clusters of varying stoichiometry: Test case the SimGen (m+n=7, n=0 $\hat{=}$ 7) clusters. <i>Chemical Physics Letters</i> , 2010, 498, 134-139.	2.6	19
15	On the performance of DFT methods on electric polarizability and hyperpolarizability calculations for the lithium tetramer. <i>Computing Letters</i> , 2005, 1, 246-252.	0.5	15
16	On the performance of DFT methods in (hyper)polarizability calculations: N ₄ (Td) as a test case. <i>Computational and Theoretical Chemistry</i> , 2007, 804, 41-46.	1.5	15
17	Trends of the bonding effect on the performance of DFT methods in electric properties calculations: A pattern recognition and metric space approach on some XY ₂ (X = O, S and Y = H, O, F, S,) Tj ETQq1 1.0.7843 14 rgBT /Ov	1.0	14
18	Electric polarizability and hyperpolarizability of BrCl(X ¹ Σ ⁺). <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2006, 39, 3629-3638.	1.5	11

#	ARTICLE	IF	CITATIONS
19	How does the closing of the ring affect the electric properties of sulphur dioxide? A comparison with the open and closed form of ozone. <i>Journal of Chemical Physics</i> , 2001, 115, 7953-7956.	3.0	10
20	From Pyridine Adduct of Borabenzene to (In)finite Graphene Architectures Functionalized with N-atom B-Dative Bonds. Prototype Systems of Strong One- and Two-Photon Quantum Transitions Triggering Large Nonlinear Optical Responses. <i>Journal of Physical Chemistry C</i> , 2020, 124, 21063-21074.	3.1	9
21	(Hyper)polarizability dependence on the interatomic distance of N ₄ (Td): Fourth order polynomials and third order derivatives. <i>Computational and Theoretical Chemistry</i> , 2006, 764, 41-46.	1.5	8
22	Synchronization in complex systems following a decision based queuing process: rhythmic applause as a test case. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2008, 2008, P07017.	2.3	8
23	On the dipole polarizability of the cyclic form of ozone. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1998, 31, L951-L954.	1.5	7
24	Electric Multipole Moments and (Hyper)Polarizability of X _n (X = F, Cl, Br and I). <i>International Journal of Molecular Sciences</i> , 2003, 4, 263-271.	4.1	7
25	Molecular geometry, charge distribution and polarization in platinum nitrides. An ab initio and density functional theory study of PtNN, PtPtNN, NPtPtN, and NNPtNN. <i>Journal of Computational Methods in Sciences and Engineering</i> , 2006, 6, 201-209.	0.2	2
26	Static electric polarizability and hyperpolarizability of sodium clusters: The case of the sodium tetramer. <i>Journal of Computational Methods in Sciences and Engineering</i> , 2008, 7, 431-442.	0.2	2
27	How does protonation affect the electron density of ozone?. <i>Molecular Physics</i> , 2002, 100, 1057-1059.	1.7	1
28	How do the available density functionals perform on the calculation of eigenvalues of frontier to deeper orbitals? A metric space evaluation of experimental and quantum chemical findings. <i>Chemical Physics</i> , 2022, 561, 111600.	1.9	1
29	Electric Dipole Polarizability of Aluminum Phosphide Clusters Al _n P _n (n = 2-9) and Electron Delocalization. <i>AIP Conference Proceedings</i> , 2007, , .	0.4	0
30	Ab Initio QM-MM Simulations of Water and Hydrated Cations. <i>AIP Conference Proceedings</i> , 2007, , .	0.4	0
31	Electric polarizabilities of the C _x Si _{4-x} (0 ≤ x ≤ 4) clusters. A conventional and time-dependent density functional theory study. <i>Journal of Computational Methods in Sciences and Engineering</i> , 2008, 7, 287-296.	0.2	0
32	Finding the Pattern in the Space of ab initio and DFT Theoretical Descriptions: A Pattern Recognition and Metric Space Approach Based on the Electric Response Properties of the Open and Ring Isomers of XO ₂ (X = O, S)., 2009, , .		0
33	Computational Quantum Chemistry: From Atoms and Molecules to Clusters and Nano-objects. , 2009, , .		0
34	How many shades of grey? On the proximity of density functional approximation to ab initio method via calculations of electric multipole moments. <i>Journal of Physics: Conference Series</i> , 2021, 1730, 012126.	0.4	0