

Alejandro J Garza

List of Publications by Year in descending order

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29
papers

1,987
citations

361413

20
h-index

477307

29
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docs citations

29
times ranked

2851
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessing combinations of singlet-paired coupled cluster and density functional theory for treating electron correlation in closed and open shells. <i>Molecular Physics</i> , 2020, 118, 1615144.	1.7	1
2	Solvation Entropy Made Simple. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 3204-3214.	5.3	42
3	Explaining the Incorporation of Oxygen Derived from Solvent Water into the Oxygenated Products of CO Reduction over Cu. <i>Journal of the American Chemical Society</i> , 2019, 141, 4191-4193.	13.7	29
4	Challenges in Modeling Electrochemical Reaction Energetics with Polarizable Continuum Models. <i>ACS Catalysis</i> , 2019, 9, 920-931.	11.2	153
5	Is Subsurface Oxygen Necessary for the Electrochemical Reduction of CO ₂ on Copper?. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 601-606.	4.6	118
6	Mechanism of CO ₂ Reduction at Copper Surfaces: Pathways to C ₂ Products. <i>ACS Catalysis</i> , 2018, 8, 1490-1499.	11.2	608
7	Reaction mechanism of the selective reduction of CO ₂ to CO by a tetraaza [Co ^{II} N ₄ H] ²⁺ complex in the presence of protons. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 24058-24064.	2.8	15
8	Nonempirical Meta-Generalized Gradient Approximations for Modeling Chemisorption at Metal Surfaces. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 3083-3090.	5.3	20
9	Electronic Structure and Properties of Berkelium Iodates. <i>Journal of the American Chemical Society</i> , 2017, 139, 13361-13375.	13.7	25
10	Predicting Band Gaps with Hybrid Density Functionals. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 4165-4170.	4.6	369
11	Intensive Atomization Energy: Re-Thinking a Metric for Electronic Structure Theory Methods. <i>Zeitschrift Fur Physikalische Chemie</i> , 2016, 230, 737-742.	2.8	14
12	The two pillars: density and spin-density functional theories. <i>Molecular Physics</i> , 2016, 114, 928-931.	1.7	6
13	Combinations of coupled cluster, density functionals, and the random phase approximation for describing static and dynamic correlation, and van der Waals interactions. <i>Molecular Physics</i> , 2016, 114, 997-1018.	1.7	23
14	Actinide chemistry using singlet-paired coupled cluster and its combinations with density functionals. <i>Journal of Chemical Physics</i> , 2015, 143, 244106.	3.0	22
15	Range separated hybrids of pair coupled cluster doubles and density functionals. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 22412-22422.	2.8	40
16	Synergy between pair coupled cluster doubles and pair density functional theory. <i>Journal of Chemical Physics</i> , 2015, 142, 044109.	3.0	36
17	On the equivalence of LIST and DIIS methods for convergence acceleration. <i>Journal of Chemical Physics</i> , 2015, 142, 164104.	3.0	7
18	Can Gap Tuning Schemes of Long-Range Corrected Hybrid Functionals Improve the Description of Hyperpolarizabilities?. <i>Journal of Physical Chemistry B</i> , 2015, 119, 1202-1212.	2.6	54

#	ARTICLE	IF	CITATIONS
19	Can Short- and Middle-Range Hybrids Describe the Hyperpolarizabilities of Long-Range Charge-Transfer Compounds?. <i>Journal of Physical Chemistry A</i> , 2014, 118, 11787-11796.	2.5	52
20	The isotropic molecular polarizabilities of single methyl-branched alkanes in the terahertz range. <i>Chemical Physics Letters</i> , 2014, 592, 292-296.	2.6	13
21	A computational study of the nonlinear optical properties of carbazole derivatives: theory refines experiment. <i>Theoretical Chemistry Accounts</i> , 2014, 133, 1.	1.4	41
22	Electronic correlation without double counting via a combination of spin projected Hartree-Fock and density functional theories. <i>Journal of Chemical Physics</i> , 2014, 140, 244102.	3.0	26
23	Prediction of the linear and nonlinear optical properties of tetrahydronaphthalone derivatives via long-range corrected hybrid functionals. <i>Molecular Physics</i> , 2014, 112, 3165-3172.	1.7	21
24	Nonlinear optical properties of DPO and DMPO: a theoretical and computational study. <i>Theoretical Chemistry Accounts</i> , 2013, 132, 1.	1.4	24
25	Photochromic and nonlinear optical properties of fulgides: A density functional theory study. <i>Computational and Theoretical Chemistry</i> , 2013, 1022, 82-85.	2.5	29
26	Assessment of long-range corrected functionals for the prediction of non-linear optical properties of organic materials. <i>Chemical Physics Letters</i> , 2013, 575, 122-125.	2.6	62
27	Capturing static and dynamic correlations by a combination of projected Hartree-Fock and density functional theories. <i>Journal of Chemical Physics</i> , 2013, 138, 134102.	3.0	31
28	Conformational Preferences of <i>trans</i> -1,2- and <i>cis</i> -1,3-Cyclohexanedicarboxylic Acids in Water and Dimethyl Sulfoxide as a Function of the Ionization State As Determined from NMR Spectroscopy and Density Functional Theory Quantum Mechanical Calculations. <i>Journal of the American Chemical Society</i> , 2012, 134, 14772-14780.	13.7	15
29	Comparison of self-consistent field convergence acceleration techniques. <i>Journal of Chemical Physics</i> , 2012, 137, 054110.	3.0	91