

Jerry A Boatz

List of Publications by Year in descending order

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26
papers

19,554
citations

933447

10
h-index

642732

23
g-index

27
all docs

27
docs citations

27
times ranked

14268
citing authors

#	ARTICLE	IF	CITATIONS
1	General atomic and molecular electronic structure system. <i>Journal of Computational Chemistry</i> , 1993, 14, 1347-1363.	3.3	19,020
2	Accurate Methods for Large Molecular Systems. <i>Journal of Physical Chemistry B</i> , 2009, 113, 9646-9663.	2.6	188
3	Classical and Quantum-Mechanical Studies of Crystalline FOX-7 (1,1-Diamino-2,2-dinitroethylene). <i>Journal of Physical Chemistry A</i> , 2001, 105, 5010-5021.	2.5	121
4	Synthesis of Nanoparticles from Malleable and Ductile Metals Using Powder-Free, Reactant-Assisted Mechanical Attrition. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 19579-19591.	8.0	30
5	Boron Nanoparticles with High Hydrogen Loading: Mechanism for B-H Binding and Potential for Improved Combustibility and Specific Impulse. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 8513-8525.	8.0	30
6	Chromophore Protonation States and the Proton Shuttle Mechanism in Green Fluorescent Protein: Inferences Drawn from ab Initio Theoretical Studies of Chemical Structures and Vibrational Spectra. <i>Journal of Physical Chemistry B</i> , 2001, 105, 2850-2857.	2.6	26
7	Rapid Aluminum Nanoparticle Production by Milling in NH ₃ and CH ₃ NH ₂ Atmospheres: An Experimental and Theoretical Study. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 16101-16116.	8.0	21
8	Aluminum Nanoparticle Production by Acetonitrile-Assisted Milling: Effects of Liquid- vs Vapor-Phase Milling and of Milling Method on Particle Size and Surface Chemistry. <i>Journal of Physical Chemistry C</i> , 2016, 120, 19613-19629.	3.1	20
9	Unusual behavior in magnesium-copper cluster matter produced by helium droplet mediated deposition. <i>Journal of Chemical Physics</i> , 2015, 142, 084307.	3.0	11
10	Atomic spectral methods for molecular electronic structure calculations. <i>Journal of Chemical Physics</i> , 2004, 121, 9323-9342.	3.0	10
11	Organic Crystal Engineering of Thermosetting Cyanate Ester Monomers: Influence of Structure on Melting Point. <i>Crystal Growth and Design</i> , 2016, 16, 4082-4093.	3.0	9
12	Ionic Liquid Clusters Generated from Electrospray Thrusters: Cold Ion Spectroscopic Signatures of Size-Dependent Acid-Base Interactions. <i>Journal of Physical Chemistry A</i> , 2020, 124, 10507-10516.	2.5	9
13	Spectral-product methods for electronic structure calculations. <i>Theoretical Chemistry Accounts</i> , 2008, 120, 199-213.	1.4	8
14	Borane-Aluminum Surface Interactions: Enhanced Fracturing and Generation of Borane-Aluminum Core-Shell Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2017, 121, 14176-14190.	3.1	8
15	Multiphoton Ionization Spectroscopy of AlArN Clusters. <i>Journal of Physical Chemistry A</i> , 2003, 107, 6948-6965.	2.5	6
16	Insights into Melting Behavior of Propyl-Bridged Di(cyanate ester) Monomers through Crystal Packing, Thermal Characterization, and Computational Analysis. <i>Crystal Growth and Design</i> , 2018, 18, 1030-1040.	3.0	6
17	Study of the Reaction of Hydroxylamine with Iridium Atomic and Cluster Anions (n = 1-5). <i>Journal of Physical Chemistry A</i> , 2021, 125, 5922-5932.	2.5	6
18	Spectral Theory of Chemical Bonding. <i>ACS Symposium Series</i> , 2002, , 221-237.	0.5	5

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19	Atomic Spectral-Product Representations of Molecular Electronic Structure: Metric Matrices and Atomic-Product Composition of Molecular Eigenfunctions. <i>Journal of Physical Chemistry A</i> , 2009, 113, 7687-7697.	2.5	5
20	Theoretical Study of Cu/Mg Core-shell Nanocluster Formation. <i>Journal of Physical Chemistry A</i> , 2016, 120, 9612-9617.	2.5	5
21	Atomic Spectral Methods for Ab Initio Molecular Electronic Energy Surfaces: Transitioning From Small-Molecule to Biomolecular-Suitable Approaches. <i>Journal of Physical Chemistry B</i> , 2016, 120, 8321-8337.	2.6	3
22	Applications of Laplace's Metric Matrix: Atomic Spectral Methods for Electronic Structure Calculations. , 2004, , 97-114.		3
23	Atomic-pair theorem for universal matrix representatives of molecules and atomic clusters in non-relativistic Born-Oppenheimer approximation. <i>Journal of Mathematical Physics</i> , 2018, 59, .	1.1	2
24	Segmented correlation consistent basis sets for the 4d and 5d transition metals. <i>Journal of Chemical Physics</i> , 2022, 156, 064102.	3.0	2
25	Bimetallic cluster film formation of Al and Mg with Cu investigated via He droplet deposition. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	0
26	The gas phase reaction of iridium and iridium carbide anions with 2-hydroxyethylhydrazine (HEH). <i>International Journal of Mass Spectrometry</i> , 2022, , 116875.	1.5	0