Jerry A Boatz

List of Publications by Year
in descending order

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	Segmented correlation consistent basis sets for the 4d and 5d transition metals. Journal of Chemical Physics, 2022, 156, 064102.	3.0	2
2	The gas phase reaction of iridium and iridium carbide anions with 2-hydoxyethylhydrazine (HEH). International Journal of Mass Spectrometry, 2022, , 116875.	1.5	0
3	Study of the Reaction of Hydroxylamine with Iridium Atomic and Cluster Anions (n = 1â€“5). Journal of Physical Chemistry A, 2021, 125, 5922-5932.	2.5	6
4	Ionic Liquid Clusters Generated from Electrospray Thrusters: Cold Ion Spectroscopic Signatures of Size-Dependent Acidâ€“Base Interactions. Journal of Physical Chemistry A, 2020, 124, 10507-10516.	2.5	9
5	Bimetallic cluster film formation of Al and Mg with Cu investigated via He droplet deposition. AIP Conference Proceedings, 2020, , .	0.4	0
6	Insights into Melting Behavior of Propyl-Bridged Di(cyanate ester) Monomers through Crystal Packing, Thermal Characterization, and Computational Analysis. Crystal Growth and Design, 2018, 18, 1030-1040.	3.0	6
7	Atomic-pair theorem for universal matrix representatives of molecules and atomic clusters in non-relativistic Born-Oppenheimer approximation. Journal of Mathematical Physics, 2018, 59, .	1.1	2
8	Boraneâ€“Aluminum Surface Interactions: Enhanced Fracturing and Generation of Boronâ€“Aluminum Coreâ€“Shell Nanoparticles. Journal of Physical Chemistry C, 2017, 121, 14176-14190.	3.1	8
9	Aluminum Nanoparticle Production by Acetonitrile-Assisted Milling: Effects of Liquid- vs Vapor-Phase Milling and of Milling Method on Particle Size and Surface Chemistry. Journal of Physical Chemistry C, 2016, 120, 19613-19629.	3.1	20
10	Theoretical Study of Cu/Mg Coreâ€“shell Nanocluster Formation. Journal of Physical Chemistry A, 2016, 120, 9612-9617.	2.5	5
11	Atomic Spectral Methods for Ab Initio Molecular Electronic Energy Surfaces: Transitioning From Small-Molecule to Biomolecular-Suitable Approaches. Journal of Physical Chemistry B, 2016, 120, 8321-8337.	2.6	3
12	Organic Crystal Engineering of Thermosetting Cyanate Ester Monomers: Influence of Structure on Melting Point. Crystal Growth and Design, 2016, 16, 4082-4093.	3.0	9
13	Rapid Aluminum Nanoparticle Production by Milling in NH₃ and CH₃NH₂ Atmospheres: An Experimental and Theoretical Study. ACS Applied Materials & Interfaces, 2015, 7, 16101-16116.	8.0	21
14	Unusual behavior in magnesium-copper cluster matter produced by helium droplet mediated deposition. Journal of Chemical Physics, 2015, 142, 084307.	3.0	11
15	Synthesis of Nanoparticles from Malleable and Ductile Metals Using Powder-Free, Reactant-Assisted Mechanical Attrition. ACS Applied Materials & Interfaces, 2014, 6, 19579-19591.	8.0	30
16	Boron Nanoparticles with High Hydrogen Loading: Mechanism for Bâ€“H Binding and Potential for Improved Combustibility and Specific Impulse. ACS Applied Materials & Interfaces, 2014, 6, 8513-8525.	8.0	30
17	Accurate Methods for Large Molecular Systems. Journal of Physical Chemistry B, 2009, 113, 9646-9663.	2.6	188
18	Atomic Spectral-Product Representations of Molecular Electronic Structure: Metric Matrices and Atomic-Product Composition of Molecular Eigenfunctions. Journal of Physical Chemistry A, 2009, 113, 7687-7697.	2.5	5

#	Article	IF	Citations
19	Spectral-product methods for electronic structure calculations. Theoretical Chemistry Accounts, 2008, 120, 199-213.	1.4	8
20	Atomic spectral methods for molecular electronic structure calculations. Journal of Chemical Physics, 2004, 121, 9323-9342.	3.0	10
21	Applications of LÃ¶wdinâ€™s Metric Matrix: Atomic Spectral Methods for Electronic Structure Calculations. , 2004, , 97-114.		3
22	Multiphoton Ionization Spectroscopy of AlArN Clusters. Journal of Physical Chemistry A, 2003, 107, 6948-6965.	2.5	6
23	Spectral Theory of Chemical Bonding. ACS Symposium Series, 2002, , 221-237.	0.5	5
24	Classical and Quantum-Mechanical Studies of Crystalline FOX-7 (1,1-Diamino-2,2-dinitroethylene). Journal of Physical Chemistry A, 2001, 105, 5010-5021.	2.5	121
25	Chromophore Protonation States and the Proton Shuttle Mechanism in Green Fluorescent Protein:Â Inferences Drawn from ab Initio Theoretical Studies of Chemical Structures and Vibrational Spectraâ€. Journal of Physical Chemistry B, 2001, 105, 2850-2857.	2.6	26
26	General atomic and molecular electronic structure system. Journal of Computational Chemistry, 1993, 14, 1347-1363.	3.3	19,020