

Ivan S Ufimtsev

List of Publications by Year in descending order

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25
papers

3,533
citations

471509

17
h-index

642732

23
g-index

25
all docs

25
docs citations

25
times ranked

2686
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum Chemistry on Graphical Processing Units. 3. Analytical Energy Gradients, Geometry Optimization, and First Principles Molecular Dynamics. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 2619-2628.	5.3	734
2	Quantum Chemistry on Graphical Processing Units. 1. Strategies for Two-Electron Integral Evaluation. <i>Journal of Chemical Theory and Computation</i> , 2008, 4, 222-231.	5.3	458
3	Quantum Chemistry on Graphical Processing Units. 2. Direct Self-Consistent-Field Implementation. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 1004-1015.	5.3	354
4	GPU-accelerated molecular modeling coming of age. <i>Journal of Molecular Graphics and Modelling</i> , 2010, 29, 116-125.	2.4	336
5	Generating Efficient Quantum Chemistry Codes for Novel Architectures. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 213-221.	5.3	316
6	Excited-State Electronic Structure with Configuration Interaction Singles and Tamm-Dancoff Time-Dependent Density Functional Theory on Graphical Processing Units. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 1814-1823.	5.3	180
7	Graphical Processing Units for Quantum Chemistry. <i>Computing in Science and Engineering</i> , 2008, 10, 26-34.	1.2	169
8	<scp>TeraChem</scp>: A graphical processing unit<scp>â€accelerated</scp> electronic structure package for <scp>largeâ€scale</scp> ab initio molecular dynamics. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2021, 11, e1494.	14.6	143
9	Dynamic Precision for Electron Repulsion Integral Evaluation on Graphical Processing Units (GPUs). <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 949-954.	5.3	138
10	Charge Transfer and Polarization in Solvated Proteins from Ab Initio Molecular Dynamics. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 1789-1793.	4.6	113
11	Observation of a Zundel-like transition state during proton transfer in aqueous hydroxide solutions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 15154-15159.	7.1	111
12	Ab Initio Quantum Chemistry for Protein Structures. <i>Journal of Physical Chemistry B</i> , 2012, 116, 12501-12509.	2.6	99
13	An atomic orbital-based formulation of the complete active space self-consistent field method on graphical processing units. <i>Journal of Chemical Physics</i> , 2015, 142, 224103.	3.0	98
14	TeraChem: Accelerating electronic structure and <i>ab initio</i> molecular dynamics with graphical processing units. <i>Journal of Chemical Physics</i> , 2020, 152, 224110.	3.0	87
15	A charged ring model for classical OH ^{âˆ’} (aq) simulations. <i>Chemical Physics Letters</i> , 2007, 442, 128-133.	2.6	46
16	A multistate empirical valence bond model for solvation and transport simulations of OH ^{âˆ’} in aqueous solutions. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 9420.	2.8	45
17	Analytic first derivatives of floating occupation molecular orbital-complete active space configuration interaction on graphical processing units. <i>Journal of Chemical Physics</i> , 2015, 143, 014111.	3.0	44
18	Quantum Chemistry on Graphical Processing Units. 2. Direct Self-Consistent-Field (SCF) Implementation. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 3138-3138.	5.3	18

#	ARTICLE	IF	CITATIONS
19	Structural insights into the aPKC regulatory switch mechanism of the human cell polarity protein lethal giant larvae 2. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 10804-10812.	7.1	13
20	Implementation of Scientific Computing Applications on the Cell Broadband Engine. Scientific Programming, 2009, 17, 135-151.	0.7	7
21	Direct self-consistent field computations on GPU clusters. , 2010, , .		6
22	Solving the structure of Lgl2, a difficult blind test of unsupervised structure determination. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 10819-10823.	7.1	5
23	Cover Image, Volume 11, Issue 2. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2021, 11, e1523.	14.6	5
24	Porting Optimized GPU Kernels to a Multi-core CPU: Computational Quantum Chemistry Application Example. , 2011, , .		4
25	Unsupervised determination of protein crystal structures. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 10813-10818.	7.1	4