Aleksei V Ivanov

List of Publications by Year
in descending order

15	177	1162889 8	1058333 14
papers	citations	h-index	g-index

15	15	15	148
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Variational Density Functional Calculations of Excited States via Direct Optimization. Journal of Chemical Theory and Computation, 2020, 16, 6968-6982.	2.3	45
2	Variational calculations of excited states via direct optimization of the orbitals in DFT. Faraday Discussions, 2020, 224, 448-466.	1.6	31
3	Fast and robust algorithm for energy minimization of spin systems applied in an analysis of high temperature spin configurations in terms of skyrmion density. Computer Physics Communications, 2021, 260, 107749.	3.0	13
4	Magnetic exchange force microscopy: theoretical analysis of induced magnetization reversals. Nanoscale, 2017, 9, 13320-13325.	2.8	12
5	Efficient optimization method for finding minimum energy paths of magnetic transitions. Journal of Physics Condensed Matter, 2020, 32, 345901.	0.7	12
6	Method for Calculating Excited Electronic States Using Density Functionals and Direct Orbital Optimization with Real Space Grid or Plane-Wave Basis Set. Journal of Chemical Theory and Computation, 2021, 17, 5034-5049.	2.3	12
7	Assessment of the Accuracy of Density Functionals for Calculating Oxygen Reduction Reaction on Nitrogen-Doped Graphene. Journal of Chemical Theory and Computation, 2021, 17, 6405-6415.	2.3	9
8	Variational Density Functional Calculations of Excited States: Conical Intersection and Avoided Crossing in Ethylene Bond Twisting. Journal of Physical Chemistry Letters, 2022, 13, 3990-3999.	2.1	9
9	Mn Dimer Can Be Described Accurately with Density Functional Calculations When Self-Interaction Correction Is Applied. Journal of Physical Chemistry Letters, 2021, 12, 4240-4246.	2.1	7
10	Direct energy minimization based on exponential transformation in density functional calculations of finite and extended systems. Computer Physics Communications, 2021, 267, 108047.	3.0	7
11	Chemical bonding theories as guides for self-interaction corrected solutions: Multiple local minima and symmetry breaking. Journal of Chemical Physics, 2021, 155, 224109.	1.2	7
12	Energy surface and minimum energy paths for FrÃ©edericksz transitions in bistable cholesteric liquid crystals. Physical Review E, 2016, 93, 042708.	0.8	6
13	Multiple minimum-energy paths and scenarios of unwinding transitions in chiral nematic liquid crystals. Physical Review E, 2019, 100, 062704.	0.8	5
14	Fully self-consistent calculations of magnetic structure within non-collinear Alexander-Anderson model. Nanosystems: Physics, Chemistry, Mathematics, 2020, 11, 65-77.	0.2	2
15	Tip-surface interaction and rate of magnetic transitions. Journal of Physics: Conference Series, 2016, 741, 012184.	0.3	0