Aleksei V Ivanov

List of Publications by Year
in descending order

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15	177	1163117 8	1058476 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: Conical Intersection and Avoided Crossing in Ethylene Bond Twisting. Journal of Physical Chemistry Letters, 2022, 13, 3990-3999.	4.6	9
2	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.	7.5	13
3	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.	4.6	7
4	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.	5.3	12
5	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.	5.3	9
6	Direct energy minimization based on exponential transformation in density functional calculations of finite and extended systems. Computer Physics Communications, 2021, 267, 108047.	7.5	7
7	Chemical bonding theories as guides for self-interaction corrected solutions: Multiple local minima and symmetry breaking. Journal of Chemical Physics, 2021, 155, 224109.	3.0	7
8	Variational Density Functional Calculations of Excited States via Direct Optimization. Journal of Chemical Theory and Computation, 2020, 16, 6968-6982.	5.3	45
9	Efficient optimization method for finding minimum energy paths of magnetic transitions. Journal of Physics Condensed Matter, 2020, 32, 345901.	1.8	12
10	Variational calculations of excited states via direct optimization of the orbitals in DFT. Faraday Discussions, 2020, 224, 448-466.	3.2	31
11	Fully self-consistent calculations of magnetic structure within non-collinear Alexander-Anderson model. Nanosystems: Physics, Chemistry, Mathematics, 2020, 11, 65-77.	0.4	2
12	Multiple minimum-energy paths and scenarios of unwinding transitions in chiral nematic liquid crystals. Physical Review E, 2019, 100, 062704.	2.1	5
13	Magnetic exchange force microscopy: theoretical analysis of induced magnetization reversals. Nanoscale, 2017, 9, 13320-13325.	5.6	12
14	Tip-surface interaction and rate of magnetic transitions. Journal of Physics: Conference Series, 2016, 741, 012184.	0.4	0
15	Energy surface and minimum energy paths for FrÃ©edericksz transitions in bistable cholesteric liquid crystals. Physical Review E, 2016, 93, 042708.	2.1	6