

Ruslan Kevorkyants

List of Publications by Year in descending order

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37
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citing authors

#	ARTICLE	IF	CITATIONS
1	Self-Assembled Organic Nanowires for High Power Density Lithium Ion Batteries. Nano Letters, 2014, 14, 1596-1602.	9.1	187
2	Interaction between n-Alkane Chains: Applicability of the Empirically Corrected Density Functional Theory for Van der Waals Complexes. Journal of Chemical Theory and Computation, 2007, 3, 755-763.	5.3	94
3	Porphyrin Traps Its Terminator! Concerted and Stepwise Porphyrin Degradation Mechanisms Induced by Heme-Oxygenase and Cytochrome P450. Angewandte Chemie - International Edition, 2004, 43, 1129-1132.	13.8	60
4	Interaction energies in hydrogen-bonded systems: A testing ground for subsystem formulation of density-functional theory. Journal of Chemical Physics, 2006, 124, 024104.	3.0	48
5	Microstructural analysis and optical properties of the halide double perovskite Cs ₂ BiAgBr ₆ single crystals. Chemical Physics Letters, 2018, 694, 18-22.	2.6	42
6	Low Inhomogeneous Broadening of Excitonic Resonance in MAPbBr ₃ Single Crystals. Journal of Physical Chemistry Letters, 2018, 9, 302-305.	4.6	27
7	FDE-vdW: A van der Waals inclusive subsystem density-functional theory. Journal of Chemical Physics, 2014, 141, 044127.	3.0	24
8	Pyridinium lead tribromide and pyridinium lead triiodide: quasi-one-dimensional perovskites with an optically active aromatic π -system. Dalton Transactions, 2018, 47, 16313-16319.	3.3	24
9	Hybrid Organic-Inorganic Halide Post-Perovskite α -Cyanopyridinium Lead Tribromide for Optoelectronic Applications. Advanced Functional Materials, 2021, 31, 2102338.	14.9	18
10	The effect of organic cations on the electronic, optical and luminescence properties of 1D piperidinium, pyridinium, and 3-hydroxypyridinium lead trihalides. Dalton Transactions, 2020, 49, 4390-4403.	3.3	16
11	Calculating Hyperfine Couplings in Large Ionic Crystals Containing Hundreds of QM Atoms: Subsystem DFT Is the Key. Journal of Physical Chemistry B, 2013, 117, 13967-13974.	2.6	15
12	Revisiting the BaBiO ₃ semiconductor photocatalyst: synthesis, characterization, electronic structure, and photocatalytic activity. Photochemical and Photobiological Sciences, 2021, 20, 1147-1160.	2.9	13
13	The origin of 1560 cm ⁻¹ band in experimental IR spectra of water adsorbed on TiO ₂ surface: Ab initio assessment. Chemical Physics Letters, 2016, 662, 97-101.	2.6	12
14	Materials synthesis, characterization and DFT calculations of the visible-light-active perovskite-like barium bismuthate Ba _{1.264(4)} Bi _{1.971(4)} O ₄ photocatalyst. Journal of Materials Chemistry C, 2020, 8, 3509-3519.	5.5	12
15	The performance of the semi-empirical AM1 method on small and nanometre-sized N ₂ O clusters. Physical Chemistry Chemical Physics, 2004, 6, 4939-4949.	2.8	11
16	The T-shaped KrI ₂ (ion-pair states) van der Waals complexes. Chemical Physics Letters, 2017, 684, 357-362.	2.6	11
17	¹³ C NMR chemical shift calculations of charged surfactants in water – A combined density functional theory (DFT) and molecular dynamics (MD) methodological study. Canadian Journal of Chemistry, 2013, 91, 529-537.	1.1	9
18	Effect of Composition on the Optical and Photocatalytic Properties of Visible Light Responsive Materials Bi ₂₆ Mg _x O ₄₀ . Inorganic Chemistry, 2020, 59, 8173-8183.	4.0	9

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19	Synthesis, characterization, optoelectronic and photocatalytic properties of Sr ₂ Bi ₂ O ₅ /SrCO ₃ and Sr ₃ Bi ₂ O ₆ /SrCO ₃ heterostructures with varying SrCO ₃ content. <i>Chemosphere</i> , 2021, 267, 129229.	8.2	9
20	DFT study of molecular hydrogen interaction with photoexcited TiO ₂ surface: Nanocluster model. <i>Chemical Physics Letters</i> , 2015, 639, 225-229.	2.6	6
21	Ab Initio Insight into Mechanisms of Ozone Interaction with a Surface of Dehydrated Nanocrystalline TiO ₂ . <i>Langmuir</i> , 2020, 36, 1930-1936.	3.5	6
22	Ab initio R1 mechanism of photostimulated oxygen isotope exchange reaction on a defect TiO ₂ surface: The case of terminal oxygen atom exchange. <i>Applied Surface Science</i> , 2017, 403, 342-346.	6.1	5
23	Hybrid organic-inorganic lead and tin halide perovskites with saturated heterocyclic cations (CH ₂) _n NH ₂ ⁺ and (CH ₂) _n OH ⁺ , (n = 2-6): Ab initio study. <i>Computational Materials Science</i> , 2017, 138, 99-104.	3.0	5
24	Modulating electronic properties of pyridinium lead halide perovskites via fluorinated methyl substituents. <i>Materials Chemistry and Physics</i> , 2021, 273, 125139.	4.0	5
25	The valence and ion-pair states of the N ₂ I ₂ van der Waals complex. <i>Chemical Physics Letters</i> , 2019, 714, 213-218.	2.6	4
26	Hybrid lead triiodide perovskites with unsaturated heterocyclic cations containing N, O, and S atoms: Ab initio study. <i>Journal of Solid State Chemistry</i> , 2020, 282, 121082.	2.9	4
27	Poly -N=N- linked 1,5-dihydro-1,5-diazocine, the two-dimensional polymer with Dirac insulator properties: ab initio study. <i>Molecular Simulation</i> , 2012, 38, 886-891.	2.0	3
28	Modulating optoelectronic properties of organo-metal halide perovskites with unsaturated heterocyclic cations via ring substitution. <i>Journal of Physics and Chemistry of Solids</i> , 2019, 135, 109078.	4.0	3
29	The structure and aromaticity of 1,4 and 1,5 dihydro diazocine, dioxocine, hydro oxazocine: ab initio CCSD(T) singlet potential energy surface study. <i>Tetrahedron Letters</i> , 2016, 57, 340-344.	1.4	2
30	Novel hybrid semiconducting lead and tin halide perovskites with saturated heterocyclic cations (CH ₂) _n PH ₂ ⁺ and (CH ₂) _n SH ⁺ , (n=2-6): Ab initio study. <i>Materials Chemistry and Physics</i> , 2019, 229, 387-391.	4.0	2
31	One-Electron Equations for Embedded Electron Density and Their Applications to Study Electronic Structure of Atoms and Molecules in Condensed Phase. <i>Chimia</i> , 2005, 59, 488-492.	0.6	2
32	Photoionisation study of Xe.CF ₄ and Kr.CF ₄ van-der-Waals molecules. <i>Journal of Chemical Physics</i> , 2016, 144, 184305.	3.0	1
33	Novel 3D photoactive direct bandgap perovskites CsBiPbX ₆ : Ab initio structure and electronic properties. <i>Computational Materials Science</i> , 2020, 183, 109819.	3.0	1
34	The Study of Photoactive Materials. <i>Reviews and Advances in Chemistry</i> , 2020, 10, 73-111.	0.5	1
35	Crystal and electronic structure of the sub-stoichiometric photocatalyst Cu ₄ Se ₆ : DFT study. <i>Journal of Physics and Chemistry of Solids</i> , 2022, 162, 110529.	4.0	1
36	Ionization of Kr.CF ₄ and Xe.CF ₄ van der Waals clusters: from face to vertex geometry. <i>Journal of Physics: Conference Series</i> , 2015, 635, 112056.	0.4	0

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37	Electronic-state-driven adsorption of O ₂ on a nanocrystalline TiO ₂ under "dark" and UV-irradiation conditions: Ab initio study. Chemical Physics Letters, 2018, 698, 97-101.	2.6	0