

Elena Voloshina

List of Publications by Year in descending order

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112
papers

2,797
citations

185998

28
h-index

197535

49
g-index

115
all docs

115
docs citations

115
times ranked

3798
citing authors

#	ARTICLE	IF	CITATIONS
1	On the physisorption of water on graphene: a CCSD(T) study. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 12041.	1.3	172
2	Induced magnetism of carbon atoms at the graphene/Ni(111) interface. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	169
3	Graphene on metallic surfaces: problems and perspectives. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 13502.	1.3	157
4	Electronic structure and magnetic properties of the graphene/Fe/Ni(111) intercalation-like system. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 7534.	1.3	110
5	Photochromism of Spirooxazines in Homogeneous Solution and Phospholipid Liposomes. <i>Journal of the American Chemical Society</i> , 1998, 120, 12707-12713.	6.6	104
6	Structural and electronic properties of the graphene/Al/Ni(111) intercalation system. <i>New Journal of Physics</i> , 2011, 13, 113028.	1.2	103
7	Graphene on Rh(111): Scanning tunneling and atomic force microscopies studies. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	99
8	Water adsorption and O-defect formation on Fe ₂ O ₃ (0001) surfaces. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 25560-25568.	1.3	91
9	Graphene growth and properties on metal substrates. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 303002.	0.7	86
10	Electronic structure and imaging contrast of graphene moiré on metals. <i>Scientific Reports</i> , 2013, 3, 1072.	1.6	85
11	Structural and electronic properties of epitaxial multilayer h-BN on Ni(111) for spintronics applications. <i>Scientific Reports</i> , 2016, 6, 23547.	1.6	80
12	Understanding the origin of band gap formation in graphene on metals: graphene on Cu/Ir(111). <i>Scientific Reports</i> , 2015, 4, 5704.	1.6	74
13	Electronic, magnetic and optical properties of MnPX ₃ (X = S, Se) monolayers with and without chalcogen defects: a first-principles study. <i>RSC Advances</i> , 2020, 10, 851-864.	1.7	57
14	Kinetic and Thermodynamic Investigations of the Photochromism and Solvatochromism of Semipermanent Merocyanines. <i>Journal of Physical Chemistry A</i> , 2001, 105, 8417-8422.	1.1	52
15	Structural and electronic properties of graphene nanoflakes on Au(111) and Ag(111). <i>Scientific Reports</i> , 2016, 6, 23439.	1.6	51
16	<i>In Situ</i> Fabrication Of Quasi-Free-Standing Epitaxial Graphene Nanoflakes On Gold. <i>ACS Nano</i> , 2014, 8, 3735-3742.	7.3	50
17	Polyketides from the marine-derived fungus <i>Ascochyta salicorniae</i> and their potential to inhibit protein phosphatases. <i>Organic and Biomolecular Chemistry</i> , 2006, 4, 2233-2240.	1.5	49
18	Restoring a nearly free-standing character of graphene on Ru(0001) by oxygen intercalation. <i>Scientific Reports</i> , 2016, 6, 20285.	1.6	46

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19	Interaction of Pyridine Derivatives with a Gold (111) Surface as a Model for Adsorption to Large Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2013, 117, 4470-4479.	1.5	45
20	General approach to understanding the electronic structure of graphene on metals. <i>Materials Research Express</i> , 2014, 1, 035603.	0.8	43
21	Embedding procedure for ab initio correlation calculations in group II metals. <i>Journal of Chemical Physics</i> , 2007, 126, 134115.	1.2	42
22	Theoretical study on the adsorption of pyridine derivatives on graphene. <i>Chemical Physics Letters</i> , 2011, 510, 220-223.	1.2	39
23	Performance of Dispersion-Corrected DFT for the Weak Interaction between Aromatic Molecules and Extended Carbon-Based Systems. <i>Journal of Physical Chemistry C</i> , 2015, 119, 1898-1904.	1.5	37
24	Communication: A combined periodic density functional and incremental wave-function-based approach for the dispersion-accounting time-resolved dynamics of 4He nanodroplets on surfaces: 4He/graphene. <i>Journal of Chemical Physics</i> , 2014, 141, 151102.	1.2	34
25	Decoupling of graphene from Ni(111) via formation of an interfacial NiO layer. <i>Carbon</i> , 2017, 121, 10-16.	5.4	34
26	Theoretical description of X-ray absorption spectroscopy of the graphene-metal interfaces. <i>Journal of Chemical Physics</i> , 2013, 138, 154706.	1.2	33
27	Influence of electronic correlations on the ground-state properties of cerium dioxide. <i>Journal of Chemical Physics</i> , 2006, 124, 234711.	1.2	30
28	First Multireference Correlation Treatment of Bulk Metals. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 1698-1706.	2.3	30
29	First-principles study of the connection between structure and electronic properties of gallium. <i>Physical Review B</i> , 2009, 79, .	1.1	28
30	Graphene on ferromagnetic surfaces and its functionalization with water and ammonia. <i>Nanoscale Research Letters</i> , 2011, 6, 214.	3.1	28
31	The graphene/n-Ge(110) interface: structure, doping, and electronic properties. <i>Nanoscale</i> , 2018, 10, 6088-6098.	2.8	28
32	Interaction of Water Molecules with the $\sqrt{2} \times \sqrt{2} \times \sqrt{3}$ (0001) Surface: A Combined Experimental and Computational Study. <i>Journal of Physical Chemistry C</i> , 2019, 123, 8324-8335.	1.5	26
33	Growth and electronic structure of graphene on semiconducting Ge(110). <i>Carbon</i> , 2017, 122, 428-433.	5.4	25
34	Multichannel scanning probe microscopy and spectroscopy of graphene moiré structures. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 3894.	1.3	24
35	Scanning probe microscopy and spectroscopy of graphene on metals. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 451-468.	0.7	23
36	Epitaxial graphene/Ge interfaces: a minireview. <i>Nanoscale</i> , 2020, 12, 11416-11426.	2.8	22

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37	Wave-function-based ab initio method for metals: Application of the incremental scheme to magnesium. <i>Physical Review B</i> , 2007, 75, .	1.1	21
38	Local correlation method for metals: Benchmarks for surface and adsorption energies. <i>Physical Review B</i> , 2012, 85, .	1.1	21
39	Correlations in the Electronic Structure of van der Waals NiPS_3 Crystals: An X-ray Absorption and Resonant Photoelectron Spectroscopy Study. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 2400-2405.	2.1	21
40	Title is missing!. <i>Russian Chemical Bulletin</i> , 2003, 52, 1172-1181.	0.4	18
41	Dirac Fermions in Half-Metallic Ferromagnetic Mixed $\text{Cr}_2\text{M}_2\text{PSe}_3$ Monolayers. <i>Advanced Theory and Simulations</i> , 2020, 3, 2000228.	1.3	18
42	Layer-by-Layer Decoupling of Twisted Graphene Sheets Epitaxially Grown on a Metal Substrate. <i>Small</i> , 2018, 14, e1703701.	5.2	17
43	Spiropyrans and spirooxazines. <i>Russian Chemical Bulletin</i> , 2008, 57, 151-158.	0.4	16
44	Structural and electronic properties of $\text{Fe}_3\text{O}_4/\text{graphene}/\text{Ni}(111)$ junctions. <i>Physica Status Solidi - Rapid Research Letters</i> , 2011, 5, 226-228.	1.2	16
45	Accurate quantum-chemical description of gold complexes with pyridine and its derivatives. <i>Journal of Computational Chemistry</i> , 2011, 32, 1839-1845.	1.5	16
46	Post-Hartree-Fock studies of the He/Mg(0001) interaction: Anti-corrugation, screening, and pairwise additivity. <i>Journal of Chemical Physics</i> , 2016, 144, 244707.	1.2	16
47	An attempt to determine the absolute configuration of two ascolactone stereoisomers with time-dependent density functional theory. <i>Chirality</i> , 2006, 18, 413-418.	1.3	15
48	Structural and electronic properties of graphene-based junctions for spin-filtering: The graphene/Al/Ni(111) intercalation-like system. <i>Applied Surface Science</i> , 2013, 267, 8-11.	3.1	14
49	Electronic structure, magnetism, and spin-dependent transport of CeMnNi_4 . <i>Physical Review B</i> , 2006, 73, .	1.1	13
50	Mott-Hubbard insulating state for the layered van der Waals FePX_3 (X: S, Se) as revealed by NEXAFS and resonant photoelectron spectroscopy. <i>Scientific Reports</i> , 2022, 12, 735.	1.6	13
51	On the application of the incremental scheme to ionic solids: test of different embeddings. <i>Theoretical Chemistry Accounts</i> , 2005, 114, 259-264.	0.5	12
52	Adsorption of multivalent alkylthiols on Au(111) surface: Insights from DFT. <i>Journal of Computational Chemistry</i> , 2014, 35, 204-213.	1.5	12
53	Adsorption of NO_2 on WSe_2 : DFT and photoelectron spectroscopy studies. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 364003.	0.7	12
54	Spectroscopic and DFT studies of graphene intercalation systems on metals. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2017, 219, 77-85.	0.8	12

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55	To the synthesis and characterization of layered metal phosphorus triselenides proposed for electrochemical sensing and energy applications. <i>Chemical Physics Letters</i> , 2020, 754, 137627.	1.2	12
56	Spiropyrans and spirooxazines. 2. Synthesis, structures, and photochromic properties of 6 ⁿ -cyano-substituted spironaphthooxazines. <i>Russian Chemical Bulletin</i> , 2003, 52, 2038-2047.	0.4	11
57	Determination of the absolute configuration of calliactine by quantum chemical calculations. <i>International Journal of Quantum Chemistry</i> , 2004, 100, 1104-1113.	1.0	11
58	First Asymmetric Synthesis and Determination of the Absolute Configuration of a Lignan Isolated from <i>Viola sebifera</i> . <i>European Journal of Organic Chemistry</i> , 2005, 2005, 1984-1990.	1.2	11
59	Conformational Analysis and CD Calculations of Methyl-Substituted 13-Tridecano-13-lactones. <i>Helvetica Chimica Acta</i> , 2005, 88, 194-209.	1.0	11
60	Correlation energies for small magnesium clusters in comparison with bulk magnesium. <i>Molecular Physics</i> , 2007, 105, 2849-2855.	0.8	11
61	Realistic Large-scale Modeling of Rashba and Induced Spin-orbit Effects in Graphene/High-Metal Systems. <i>Advanced Theory and Simulations</i> , 2018, 1, 1800063.	1.3	11
62	To Estimation of pKa for Spiropyrans of the Indoline Series. <i>Russian Journal of General Chemistry</i> , 2002, 72, 1468-1472.	0.3	10
63	Photochromic properties of six 5-O-n-alkyl,6 ⁿ -CN substituted spironaphthoxazines. <i>International Journal of Photoenergy</i> , 2004, 6, 199-204.	1.4	10
64	Spiropyrans and spirooxazines. 3. Synthesis of photochromic 5 ⁿ -(4,5-diphenyl-1,3-oxazol-2-yl)-spiro[indoline-2,3 ⁿ -naphtho[2,3-b]pyran]. <i>Russian Chemical Bulletin</i> , 2005, 54, 705-710.	0.4	10
65	Cohesive properties of CeN and LaN from first principles. <i>Journal of Computational Chemistry</i> , 2008, 29, 2107-2112.	1.5	10
66	Development of a Wavefunction-based <i>Ab Initio</i> Method for Metals Applying the Method of Increments. <i>Zeitschrift Fur Physikalische Chemie</i> , 2010, 224, 369-381.	1.4	10
67	Atomic force spectroscopy and density-functional study of graphene corrugation on Ru(0001). <i>Physical Review B</i> , 2016, 93, .	1.1	10
68	Adsorption of water on the pristine and defective semiconducting 2D CrPX ₃ monolayers (X: S, Se). <i>Journal of Physics Condensed Matter</i> , 2021, 33, .	0.7	10
69	Realization of the electric-field driven <i>one-material</i> -based magnetic tunnel junction using van der Waals antiferromagnetic MnPX ₃ (X: S, Se). <i>Journal of Materials Chemistry C</i> , 2022, 10, 3812-3818.	2.7	10
70	Quantum-chemical approach to cohesive properties of metallic beryllium. <i>Journal of Physics: Conference Series</i> , 2008, 117, 012029.	0.3	9
71	<i>Ab initio</i> investigation of ground-state properties of group-12 fluorides. <i>International Journal of Quantum Chemistry</i> , 2014, 114, 943-951.	1.0	9
72	Unoccupied electronic band structure of pentagonal Si nanoribbons on Ag(110). <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 17811-17820.	1.3	9

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91	(E)-4-Methyl-1-tributylstannyl-oct-1-en-6-yn-3-ol: Circular Dichroism Measurement and Determination of the Absolute Configuration by Quantum-chemical CD Calculations. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2004, 59, 124-132.	0.7	3
92	Electronic Structure and Magnetic Properties of Graphene/Ni ₃ Mn/Ni(111) Trilayer. Journal of Physical Chemistry C, 2019, 123, 4994-5002.	1.5	3
93	Intercalation of O ₂ and N ₂ in the Graphene/Ni Interfaces of Different Morphologies. Journal of Physical Chemistry C, 2019, 123, 16137-16145.	1.5	3
94	Preparation and photoemission investigation of bulklike δ -Mn films on W(110). Physical Review B, 2010, 81, .	1.1	2
95	Calculation of the X-Ray emission K and L 2,3 bands of metallic magnesium and aluminum with allowance for multielectron effects. Journal of Experimental and Theoretical Physics, 2014, 118, 11-17.	0.2	2
96	Comment on "Spin-Orbit Coupling Induced Gap in Graphene on Pt(111) with Intercalated Pb Monolayer". ACS Nano, 2017, 11, 10627-10629.	7.3	2
97	Influence of surface and subsurface Co-Ir alloy on the electronic properties of graphene. Carbon, 2021, 183, 251-258.	5.4	2
98	New formyl-substituted spiropyran of the indoline series. Chemistry of Heterocyclic Compounds, 1997, 32, 1427-1428.	0.6	1
99	A study of spiro[indoline-pyridobenzopyrans] by differential pulse voltammetry on a dropping mercury electrode and quantum chemistry. Russian Journal of General Chemistry, 2008, 78, 662-667.	0.3	1
100	Second Floor of Flatland: Epitaxial Growth of Graphene on Hexagonal Boron Nitride. Small, 2021, 17, 2102747.	5.2	1
101	Development of a Wavefunction-based <i>Ab Initio</i> Method for Metals Applying the Method of Increments. , 2010, , 79-91.		1
102	Modification of the Magnetic and Electronic Properties of the Graphene/Ni(111) Interface via Halogens Intercalation. Advanced Theory and Simulations, 0, , 2100319.	1.3	1
103	<i>Ino</i> -Chloridolithates from Ionothermal Synthesis. Inorganic Chemistry, 2021, 60, 19145-19151.	1.9	1
104	Electronic and Magnetic Properties of the Graphene/Y/Co(0001) Interfaces: Insights from the Density Functional Theory Analysis. ACS Omega, 2022, 7, 7304-7310.	1.6	1
105	Electronic and Magnetic Properties of The Graphene/RE/Ni(111) (RE: La, Yb) Intercalation-Like Interfaces: A DFT Analysis. Advanced Theory and Simulations, 0, , 2100621.	1.3	1
106	Spiropyran and Spirooxazines. Part 1. Synthesis and Photochromic Properties of 9-Hydroxy- and 9-Alkoxy-Substituted Spironaphthooxazines.. ChemInform, 2004, 35, no.	0.1	0
107	Spiropyran and Spirooxazines. Part 2. Synthesis, Structures, and Photochromic Properties of 6-Cyano-Substituted Spironaphthooxazines.. ChemInform, 2004, 35, no.	0.1	0
108	Electron-Correlation Effects in Metals from First Principles: a Multi-Reference Incremental Scheme. AIP Conference Proceedings, 2007, , .	0.3	0

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109	Spin-resolved photoelectron spectroscopy of rare-earth overlayers on rare-earth and d-metal substrates. <i>Journal of Magnetism and Magnetic Materials</i> , 2008, 320, e231-e234.	1.0	0
110	Graphene Properties on Metals. , 2018, , 138-144.		0
111	Spintronics: Realistic Large-Scale Modeling of Rashba and Induced Spin-Orbit Effects in Graphene/High-Z-Metal Systems (Adv. Theory Simul. 10/2018). <i>Advanced Theory and Simulations</i> , 2018, 1, 1870028.	1.3	0
112	Second Floor of Flatland: Epitaxial Growth of Graphene on Hexagonal Boron Nitride (<i>Small</i> 36/2021). <i>Small</i> , 2021, 17, 2170188.	5.2	0