

Alexander S Vinogradov

List of Publications by Year in descending order

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81
papers

2,776
citations

257101

24
h-index

182168

51
g-index

82
all docs

82
docs citations

82
times ranked

3656
citing authors

#	ARTICLE	IF	CITATIONS
1	Controlling graphene corrugation on lattice-mismatched substrates. <i>Physical Review B</i> , 2008, 78, .	1.1	438
2	Monolayer of h-BN chemisorbed on Cu(111) and Ni(111): The role of the transition metal 3d states. <i>Surface Science</i> , 2005, 582, 21-30.	0.8	220
3	Influence of chemical interaction at the lattice-mismatched h-BN/Rh(111) and h-BN/Pt(111) interfaces on the overlayer morphology. <i>Physical Review B</i> , 2007, 75, .	1.1	139
4	From Graphene Nanoribbons on Cu(111) to Nanographene on Cu(110): Critical Role of Substrate Structure in the Bottom-Up Fabrication Strategy. <i>ACS Nano</i> , 2015, 9, 8997-9011.	7.3	127
5	Formation and Structure of Graphene Waves on Fe(110). <i>Physical Review Letters</i> , 2012, 109, 026101.	2.9	122
6	Monolayer h-BN on lattice-mismatched metal surfaces: On the formation of the nanomesh. <i>Chemical Physics Letters</i> , 2007, 446, 119-123.	1.2	113
7	Effect of Substrate Chemistry on the Bottom-Up Fabrication of Graphene Nanoribbons: Combined Core-Level Spectroscopy and STM Study. <i>Journal of Physical Chemistry C</i> , 2014, 118, 12532-12540.	1.5	113
8	Single-Phase Borophene on Ir(111): Formation, Structure, and Decoupling from the Support. <i>ACS Nano</i> , 2019, 13, 14511-14518.	7.3	99
9	A single h-BN layer on Pt(111). <i>Surface Science</i> , 2008, 602, 1722-1726.	0.8	94
10	Ni 3d-h-BN hybridization at the h-BN/Ni(111) interface observed with core-level spectroscopies. <i>Physical Review B</i> , 2004, 70, .	1.1	90
11	Structure and electronic properties of AgX (X = Cl, Br, I)-intercalated single-walled carbon nanotubes. <i>Carbon</i> , 2010, 48, 2708-2721.	5.4	83
12	Interaction between single walled carbon nanotube and 1D crystal in CuX@SWCNT (X=Cl, Br, I) nanostructures. <i>Carbon</i> , 2012, 50, 4021-4039.	5.4	71
13	Electronic structure of Ni(II) porphyrins and phthalocyanine studied by soft X-ray absorption spectroscopy. <i>Chemical Physics</i> , 2007, 332, 318-324.	0.9	65
14	Correlations in the electronic structure of half-metallic ferromagnetic CrO ₂ films: An x-ray absorption and resonant photoemission spectroscopy study. <i>Physical Review B</i> , 2005, 72, .	1.1	57
15	Adsorption-induced gap states of h-BN on metal surfaces. <i>Physical Review B</i> , 2008, 77, .	1.1	56
16	Low-lying unoccupied electronic states in 3d transition-metal fluorides probed by NEXAFS at the F 1s threshold. <i>Physical Review B</i> , 2005, 71, .	1.1	51
17	Electronic structure of fluorinated multiwalled carbon nanotubes studied using x-ray absorption and photoelectron spectroscopy. <i>Physical Review B</i> , 2009, 79, .	1.1	48
18	Controllable oxidation of h-BN monolayer on Ir(111) studied by core-level spectroscopies. <i>Surface Science</i> , 2012, 606, 564-570.	0.8	44

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19	NMR and NEXAFS Study of Various Graphite Fluorides. Journal of Physical Chemistry C, 2013, 117, 13564-13572.	1.5	40
20	Formation and temperature evolution of Au nanoparticles supported on the h-BN nanomesh. Surface Science, 2008, 602, 1250-1255.	0.8	36
21	An x-ray absorption and photoemission study of the electronic structure of Ni porphyrins and Ni N-confused porphyrin. Journal of Physics Condensed Matter, 2008, 20, 235207.	0.7	32
22	Impact of Oxygen Coadsorption on Intercalation of Cobalt under the h-BN Nanomesh. Nano Letters, 2009, 9, 2780-2787.	4.5	30
23	Controllable p-doping of graphene on Ir(111) by chlorination with FeCl ₃ . Journal of Physics Condensed Matter, 2012, 24, 314202.	0.7	27
24	Oxidation effects in epitaxial Fe ₃ O ₄ layers on MgO and MgAl ₂ O ₄ substrates studied by X-ray absorption, fluorescence and photoemission. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2004, 109, 207-212.	1.7	25
25	Molecular effects in solid NaNO ₃ observed by x-ray absorption and resonant Auger spectroscopy. Physical Review B, 2002, 65, .	1.1	23
26	Fabrication and characterization of fluorinated single-walled carbon nanotubes. Nanotechnologies in Russia, 2009, 4, 60-78.	0.7	23
27	Comment on "Bottom-Up Graphene-Nanoribbon Fabrication Reveals Chiral Edges and Enantioselectivity". ACS Nano, 2015, 9, 3399-3403.	7.3	22
28	Observation of back-donation in 3d metal cyanide complexes through N K absorption spectra. Journal of Electron Spectroscopy and Related Phenomena, 2001, 114-116, 813-818.	0.8	20
29	Comparative X-ray absorption investigation of fluorinated single-walled carbon nanotubes. Physics of the Solid State, 2010, 52, 876-883.	0.2	20
30	Honeycomb Boron on Al(111): From the Concept of Borophene to the Two-Dimensional Boride. ACS Nano, 2021, 15, 15153-15165.	7.3	20
31	Quasiatomic treatment of near-edge-structure features in X-ray absorption spectra of first-row polyatomic systems. Physica Scripta, 1990, 41, 160-163.	1.2	19
32	X-RAY ABSORPTION EVIDENCE FOR THE BACK-DONATION IN IRON CYANIDE COMPLEXES. Surface Review and Letters, 2002, 09, 359-364.	0.5	19
33	The formation and properties of one-dimensional FeHal ₂ (Hal = Cl, Br, I) nanocrystals in channels of single-walled carbon nanotubes. Nanotechnologies in Russia, 2009, 4, 634-646.	0.7	19
34	A simple system of the short-wave synchrotron radiation prevention in the 30 Å... to 180 Å... wavelength range. Nuclear Instruments & Methods, 1978, 152, 133-134.	1.2	18
35	The Identification of Cu-O-C Bond in Cu/MWCNTs Hybrid Nanocomposite by XPS and NEXAFS Spectroscopy. Nanomaterials, 2021, 11, 2993.	1.9	18
36	One Precursor but Two Types of Graphene Nanoribbons: On-Surface Transformations of 10,10-Dichloro-9,9-bianthryl on Ag(111). Journal of Physical Chemistry C, 2019, 123, 8892-8901.	1.5	17

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37	Comparative NEXAFS, NMR, and FTIR Study of Various-Sized Nanodiamonds: As-Prepared and Fluorinated. <i>Journal of Physical Chemistry C</i> , 2015, 119, 835-844.	1.5	16
38	Studies of Buried Layers and Interfaces of Tungsten Carbide Coatings on the MWCNT Surface by XPS and NEXAFS Spectroscopy. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4736.	1.3	15
39	Electronic structure of FeF ₂ and FeF ₃ studied by x-ray absorption and fluorescence spectroscopy. <i>Physica Scripta</i> , 2005, T115, 1074-1076.	1.2	14
40	Effect of substrate nanopatterning on the growth and structure of pentacene films. <i>Physical Review B</i> , 2010, 81, .	1.1	14
41	Electronic structure of copper halides CuI and CuCl: A comparative X-Ray photoelectron and absorption spectroscopy study. <i>Physics of the Solid State</i> , 2013, 55, 1136-1147.	0.2	14
42	Nitrogen and oxygen core excitations in solid NaNO ₂ studied by X-ray absorption and resonant photoemission. <i>Chemical Physics</i> , 1999, 249, 249-258.	0.9	13
43	Molecular nature of resonant x-ray scattering in solid LiNO ₃ . <i>Physical Review B</i> , 2004, 69, .	1.1	13
44	Comparative Study of the Structural Features and Electrochemical Properties of Nitrogen-Containing Multi-Walled Carbon Nanotubes after Ion-Beam Irradiation and Hydrochloric Acid Treatment. <i>Nanomaterials</i> , 2021, 11, 2163.	1.9	13
45	Hole doping of graphene supported on Ir(111) by AlBr ₃ . <i>Applied Physics Letters</i> , 2013, 102, 061601.	1.5	12
46	Characterization of fluorinated multiwalled carbon nanotubes by x-ray absorption spectroscopy. <i>Physics of the Solid State</i> , 2008, 50, 587-594.	0.2	11
47	An innovative gas sensor system designed from a sensitive organic semiconductor downstream a nanocarbonaceous chemical filter for selective detection of NO ₂ in an environmental context. Part II: Interpretations of O ₃ /nanocarbons and NO ₂ /nanocarbons interactions. <i>Sensors and Actuators B: Chemical</i> , 2012, 173, 652-658.	4.0	11
48	Characterization of fluorinated multiwalled carbon nanotubes with X-ray absorption, photoelectron and emission spectroscopies. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 94, 445-448.	1.1	10
49	Features of metal atom 2p excitations and electronic structure of 3d-metal phthalocyanines studied by X-ray absorption and resonant photoemission. <i>Applied Surface Science</i> , 2013, 267, 132-135.	3.1	10
50	Effect of electron injection in copper-contacted graphene nanoribbons. <i>Nano Research</i> , 2016, 9, 2735-2746.	5.8	10
51	Effect of interference inside surroundings on XANES. OK-shell photoabsorption in N ₂ O. <i>Physica Scripta</i> , 1991, 44, 399-404.	1.2	9
52	The structural evolution of graphene/Fe(110) systems upon annealing. <i>Carbon</i> , 2017, 111, 113-120.	5.4	9
53	The oscillator strength of the Īε _g shape resonance in the absorption K-spectrum of a nitrogen molecule. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2002, 93, 395-398.	0.2	8
54	A carbonaceous chemical filter for the selective detection of NO ₂ in the environment. <i>Carbon</i> , 2013, 52, 17-29.	5.4	8

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55	Strong Participator Channels in the NonRadiative Resonant Decay of B 1s Excitation in B ₂ O ₃ . <i>Physica Scripta</i> , 2005, , 1071.	1.2	7
56	NEXAFS Spectra of Polymer- ϵ nanocarbon Composites. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2008, 16, 471-474.	1.0	7
57	Electronic Structure of CuI@SWCNT Nanocomposite Studied by X-Ray Absorption Spectroscopy. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2010, 18, 574-578.	1.0	7
58	Electronic structure of the [Ni(Salen)] complex studied by core-level spectroscopies. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 11015-11027.	1.3	7
59	Resonant Auger spectroscopy in solid alkali nitrates as a probe of nuclear motion in the core-excited NO ₃ ⁻ anion. <i>Chemical Physics Letters</i> , 2003, 368, 125-131.	1.2	6
60	Specific features of the electronic structure of fluorinated multiwalled carbon nanotubes in the near-surface region. <i>Physics of the Solid State</i> , 2009, 51, 1961-1971.	0.2	6
61	X-ray absorption investigation of the electronic structure of the CuI@SWCNT nanocomposite. <i>Physics of the Solid State</i> , 2011, 53, 643-653.	0.2	6
62	High resolution F1s absorption spectra of solid fluorides of 3d elements. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2002, 93, 862-869.	0.2	5
63	Decay of core excitations in bulk h-BN studied with resonant Auger spectroscopy. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2005, 148, 59-64.	0.8	5
64	Electronic Structure of Fluorinated Single-Walled Carbon Nanotubes Studied by X-Ray Absorption and Photoelectron Spectroscopy. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2010, 18, 590-594.	1.0	5
65	Features of Resonant F1s Auger Spectra from Fluorinated Multi-Walled Carbon Nanotubes. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2010, 18, 600-604.	1.0	5
66	The Hybridized M3dF2p Character of LowEnergy Unoccupied Electron States in 3d Metal Fluorides Observed by F 1s Absorption. <i>Physica Scripta</i> , 2005, , 510.	1.2	4
67	Oscillator strengths for the shape resonances in the N K absorption spectrum of NaNO ₃ measured with the use of synchrotron radiation. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2007, 102, 367-370.	0.2	2
68	Electronic Structure of Fluorinated Carbon Nanotubes. , 2010, , .		4
69	The Valence Band Structure of the [Ni(Salen)] Complex: An Ultraviolet, Soft X-ray and Resonant Photoemission Spectroscopy Study. <i>International Journal of Molecular Sciences</i> , 2022, 23, 6207.	1.8	3
70	Theoretical treatment of X-ray absorption fine structure by the localized orbitals method. <i>Crystal Research and Technology</i> , 1988, 23, 831-834.	0.6	2
71	Oscillator strengths of the vibrational and Rydberg transitions in the 1s absorption spectrum of a nitrogen molecule. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2007, 102, 367-370.	0.2	2
72	Special features of structural organization and magnetic properties of quasi-one-dimensional organoiron nanostructures on a silica support. <i>Russian Journal of General Chemistry</i> , 2008, 78, 2299-2307.	0.3	2

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73	Gas permeability properties of modified membranes based on exfoliated graphite. <i>Desalination and Water Treatment</i> , 2010, 14, 192-195.	1.0	2
74	Evolution of CuI/Graphene/Ni(111) System during Vacuum Annealing. <i>Journal of Physical Chemistry C</i> , 2015, 119, 12434-12444.	1.5	2
75	The Formation of Nanoscale Closed Graphene Surfaces during Fullerite C60 Hot Isostatic Pressing. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 11646.	1.3	2
76	Synthesis of Iron-Oxygen Nanostructures on Silicon and Analysis of Their Structure by NEXAFS Spectroscopy. <i>Russian Journal of General Chemistry</i> , 2005, 75, 1864-1869.	0.3	1
77	Study of nanostructured materials by optical and photoelectron spectroscopy. <i>Crystallography Reports</i> , 2006, 51, 870-880.	0.1	1
78	Distribution of the oscillator strengths in the 2p absorption spectra of 3d transition metal films. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2007, 71, 76-80.	0.1	1
79	Electronic Structure of Fluorinated Carbon Nanotubes Studied by X-ray Absorption and Photoelectron Spectroscopy. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2008, 16, 335-339.	1.0	1
80	Capacitance Transient X-ray Absorption Spectroscopy of semiconducting structures. <i>Superlattices and Microstructures</i> , 2009, 45, 190-199.	1.4	1
81	Local and electronic structure of fluorinated single-walled carbon nanotubes: X-ray absorption and DFT Analysis. <i>Journal of Physics: Conference Series</i> , 2009, 190, 012135.	0.3	1