

Vadim R Galakhov

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Magnetic Properties, Electron Paramagnetic Resonance, and Photoelectron Spectroscopy Studies of Nanocrystalline TiO_2 Co-doped with Al and Fe. <i>Physica Status Solidi (B): Basic Research</i> , 2021, 258, 2000399.	1.5	4
2	Effect of nonstoichiometry on crystal structure, charge and spin states of cobalt ions in $\text{Tb}_{1-x}\text{Ba}_x\text{Co}_2\text{O}_{5.5}$: Neutron diffraction and soft X-ray absorption spectroscopy studies. <i>Journal of Alloys and Compounds</i> , 2020, 817, 152775.	5.5	7
3	Magnetic and Electronic Properties of Highly Mn-Doped NaGdF_4 and NaEuF_4 Nanoparticles with a Narrow Size Distribution. <i>Journal of Physical Chemistry C</i> , 2020, 124, 18194-18202.	3.1	9
4	Milling-induced chemical decomposition of the surface of $\text{EuBaCo}_2\text{O}_{5.5}$ powders studied by means of soft X-ray absorption spectroscopy. <i>Applied Surface Science</i> , 2019, 493, 1048-1054.	6.1	3
5	Effect of transition metal oxidation state on crystal structure and magnetic ordering in frustrated BaM_4O_7 systems (A= Y, Ca; M= Co, Fe): X-ray diffraction, soft X-ray absorption, and magnetization studies. <i>Current Applied Physics</i> , 2018, 18, 155-162.	2.4	5
6	Soft X-Ray Absorption Spectroscopy as a Method to Study $\text{Y}_{1-x}\text{Ca}_x\text{BaCo}_4\text{M}_x\text{O}_7$ Cobaltites (M = Fe, Ni, Cu). <i>Journal of Applied Physics</i> , 2018, 124, 094101.	1.4	5
7	Soft X-ray absorption spectroscopy of titanium dioxide nanopowders with cobalt impurities. <i>Journal of Experimental and Theoretical Physics</i> , 2017, 124, 908-913.	0.9	3
8	Magnetic and soft X-ray absorption spectroscopy characterization of Mn and Co doped lithium nickel phosphate LiNiPO_4 . <i>Physica Status Solidi (B): Basic Research</i> , 2017, 254, 1600264.	1.5	5
9	X-ray absorption spectroscopy and magnetic studies of $\text{Sr}_{1-x}\text{Ce}_x\text{Mn}_{1-y}\text{Co}_y\text{O}_{3-\delta}$ solid solutions. <i>Current Applied Physics</i> , 2016, 16, 1597-1602.	2.4	3
10	X-ray spectroscopy of carbon-encapsulated iron nanoparticles. <i>Journal of Structural Chemistry</i> , 2015, 56, 478-485.	1.0	0
11	X-ray spectra and valence states of cations in nanostructured half-doped $\text{La}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ manganite. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 118, 649-654.	2.3	6
12	Electronic structure and resonant X-ray emission spectra of carbon shells of iron nanoparticles. <i>JETP Letters</i> , 2013, 96, 710-713.	1.4	11
13	Valence states of iron ions in nanostructured yttrium iron garnet $\text{Y}_3\text{Fe}_5\text{O}_{12}$ studied by means of soft X-ray absorption spectroscopy. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2012, 185, 598-601.	1.7	19
14	Effects of shock-wave loading in oxides. <i>Petrology</i> , 2012, 20, 317-330.	0.9	4
15	Carbon States in Carbon-Encapsulated Nickel Nanoparticles Studied by Means of X-ray Absorption, Emission, and Photoelectron Spectroscopies. <i>Journal of Physical Chemistry C</i> , 2011, 115, 24615-24620.	3.1	27
16	Characterization of Carbon-Encapsulated Nickel and Iron Nanoparticles by Means of X-ray Absorption and Photoelectron Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2010, 114, 22413-22416.	3.1	51
17	Charge state of manganese ions and the nonstoichiometry of $\text{Ca}_{1-x}\text{La}_y\text{MnO}_3$ single crystals. <i>JETP Letters</i> , 2010, 91, 129-133.	1.4	9
18	Valence Band Structure and X-ray Spectra of Oxygen-Deficient Ferrites SrFeO_{x-1} . <i>Journal of Physical Chemistry C</i> , 2010, 114, 5154-5159.	3.1	59

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19	Electronic structure of defective lithium cobaltites Li_xCoO_2 . <i>Applied Physics A: Materials Science and Processing</i> , 2009, 94, 497-500.	2.3	13
20	Reinvestigation of the Fe, Cu and Cr valences in $(\text{FeCu})\text{Cr}_2\text{S}_4$ spinels. <i>Physica Status Solidi (B): Basic Research</i> , 2009, 246, 1470-1475.	1.5	4
21	Soft x-ray emission spectra and ferromagnetism in wide-gap doped semiconductors. <i>Low Temperature Physics</i> , 2009, 35, 79-82.	0.6	12
22	X-ray spectroscopy of lanthanum manganites: Nature of doping holes, correlation effects, and orbital ordering. <i>Journal of Structural Chemistry</i> , 2008, 49, 54-58.	1.0	13
23	X-ray emission and Raman spectroscopy of $\text{CNO} \approx x \approx 0.5$ nanocondensates prepared by pulsed arc sputtering of graphite in the presence of nitrogen. <i>Physics of the Solid State</i> , 2008, 50, 977-980.	0.6	2
24	Photon energy dependent photoemission study of $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$. <i>Surface Science</i> , 2005, 575, 29-34.	1.9	10
25	Structure and Surface States of Cu-O Based Nanocrystalline Powders. <i>Journal of Metastable and Nanocrystalline Materials</i> , 2005, 24-25, 43-48.	0.1	12
26	Electron correlation effects in band structure of magnetic clusters Mn_{12} and Fe_8 . <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2004, 137-140, 735-739.	1.7	10
27	Soft X-ray emission spectroscopy of SiO_2/Si structures irradiated with high-energy electrons. <i>Journal of Materials Science: Materials in Electronics</i> , 2003, 14, 809-811.	2.2	2
28	X-ray emission spectra of vanadium atoms in a new series of (Cu,V)-based high- T_c superconductors. <i>Journal of Solid State Chemistry</i> , 2003, 170, 188-191.	2.9	4
29	Electronic structure of cobalt-doped manganites. <i>Surface Science</i> , 2003, 532-535, 488-492.	1.9	6
30	Effect of atomic magnetic moments on the relative intensity of the L_{23} and L_{23} components in x-ray emission spectra of 3d transition metal oxides. <i>Physics of the Solid State</i> , 2003, 45, 1048-1055.	0.6	17
31	Electronic Structure of ZnS:Co Semiconductors: X-ray and Optical Spectroscopy Studies. <i>Acta Physica Polonica A</i> , 2003, 103, 703-708.	0.5	2
32	Application of soft x-ray emission spectroscopy for the study of solid-phase reactions in Si-based interfaces. <i>X-Ray Spectrometry</i> , 2002, 31, 203-208.	1.4	12
33	Electronic structure, x-ray spectra, and magnetic properties of the LiCoO_2^{δ} and Na_xCoO_2 nonstoichiometric oxides. <i>Physics of the Solid State</i> , 2002, 44, 266-273.	0.6	51
34	X-ray-emission study of the structure of Si:H layers formed by low-energy hydrogen-ion implantation. <i>Semiconductors</i> , 2002, 36, 568-573.	0.5	1
35	Electronic structure of the mixed-valent system $\text{V}_2^{\delta}\text{MoO}_5$. <i>Surface Science</i> , 2001, 482-485, 708-711.	1.9	6
36	Soft X-ray fluorescence and photoluminescence of Si nanocrystals embedded in SiO_2 . <i>Applied Physics A: Materials Science and Processing</i> , 2001, 72, 303-306.	2.3	4

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37	Ion-implantation effects in Al ₂ O ₃ : X-ray fluorescence measurements. Nuclear Instruments & Methods in Physics Research B, 2000, 168, 395-398.	1.4	10
38	Electronic structure of LiMnO : X-ray emission and photoelectron spectra and band structure calculations. European Physical Journal B, 2000, 14, 281-286.	1.5	23
39	Interaction of Cu ₃ d and O ₂ p states in Mg _{1-x} Cu _x O solid solutions with NaCl structure: X-ray photoelectron and x-ray emission study. Physical Review B, 2000, 62, 4922-4926.	3.2	15
40	Electronic structure of molecular superconductors containing paramagnetic dions. Physical Review B, 2000, 62, 11380-11383.	3.2	4
41	Soft-x-ray fluorescence study of the quasi-one-dimensional Heisenberg antiferromagnet tetraphenylverdazyl. Physical Review B, 2000, 62, 15660-15665.	3.2	0
42	Electronic structure of FeCr ₂ S ₄ and Fe _{0.5} Cu _{0.5} Cr ₂ S ₄ . Journal of Physics Condensed Matter, 2000, 12, 5411-5421.	1.8	14
43	Electronic Structure of Doped La-Mn-O Perovskites. Acta Physica Polonica A, 2000, 98, 587-591.	0.5	7
44	X-ray emission and photoelectron spectra of Pr _{0.5} Sr _{0.5} MnO ₃ . Physical Review B, 1999, 59, 12799-12806.	3.2	24
45	X-ray emission spectra and interfacial solid-phase reactions in Hf/(001)Si system. Thin Solid Films, 1999, 350, 143-146.	1.8	6
46	X-ray emission and photoelectron spectra of Pr _{0.5} Sr _{0.5} MnO ₃ . Journal of Electron Spectroscopy and Related Phenomena, 1999, 101-103, 793-798.	1.7	2
47	Soft-x-ray-emission study of the influence of Li ⁺ -doping, irradiation, and plastic deformation on CuO. Physical Review B, 1999, 59, 211-214.	3.2	14
48	Optical spectra and electronic structure of CdFeTe mixed crystals. Journal of Crystal Growth, 1998, 184-185, 1128-1131.	1.5	2
49	Electronic structure of ternary transition metal oxides and sulphides: X-ray photoelectron and X-ray emission spectroscopy study. Journal of Electron Spectroscopy and Related Phenomena, 1998, 88-91, 441-447.	1.7	3
50	X-ray emission spectra and electronic structure of Cu ₂ S ₄ and Cu ₂ Se ₄ . Solid State Communications, 1998, 108, 235-239.	1.9	17
51	X-ray emission spectroscopic studies of silicon precipitation in surface layer of SiO ₂ induced by argon excimer laser irradiation. Applied Surface Science, 1998, 126, 83-91.	6.1	13
52	Excitation energy dependence of X-ray emission spectra and electronic structure of Eu _{1-x} Ca _x MnO ₃ . Journal of Electron Spectroscopy and Related Phenomena, 1998, 96, 187-194.	1.7	7
53	Studies of Solid Interfaces Using Soft X-ray Emission Spectroscopy. Critical Reviews in Solid State and Materials Sciences, 1998, 23, 65-203.	12.3	33
54	Solid-phase reactions in Ir/(111)Si systems studied by means of x-ray emission spectroscopy. Journal of Materials Research, 1998, 13, 1950-1955.	2.6	5

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55	Valence states of copper ions and electronic structure of LiCu ₂ O ₂ . Physical Review B, 1998, 57, 4377-4381.	3.2	48
56	X-ray emission spectra and the effect of oxidation on the local structure of porous and spark-processed silicon. Journal of Physics Condensed Matter, 1997, 9, 2671-2681.	1.8	4
57	Photoemission study of the metal-insulator transition in Cu _{1.2} S ₄ . Physical Review B, 1997, 55, R15979-R15982.	3.2	88
58	The influence of high-energy electron irradiation and boron implantation on the oxide thickness in the β -Si system. Journal of Physics Condensed Matter, 1997, 9, 6969-6978.	1.8	10
59	Valence-band spectra and electronic structure of CuFeO ₂ . Physical Review B, 1997, 56, 4584-4591.	3.2	105
60	Single-ion approach to the interpretation of the x-ray photoelectron spectra of the valence bands of monoxides of 3d elements. Physics of the Solid State, 1997, 39, 948-954.	0.6	4
61	Local structure of porous silicon studied by means of X-ray emission spectroscopy. Applied Physics A: Materials Science and Processing, 1997, 65, 183-189.	2.3	3
62	Application of high energy resolved X-ray emission spectroscopy for monitoring of silicide formation in Co/SiO ₂ /Si system. Thin Solid Films, 1997, 311, 28-32.	1.8	12
63	Degree of covalency of LiCoO ₂ : X-ray emission and photoelectron study. Solid State Communications, 1996, 99, 221-224.	1.9	63
64	Analysis of oxyanion (BO ₃ ³⁻ , CO ₃ ²⁻ , SO ₄ ²⁻ , PO ₄ ³⁻ , SeO ₄ ²⁻) substitution in Y123 compounds studied by X-ray photoelectron spectroscopy. Journal of Superconductivity and Novel Magnetism, 1996, 9, 97-100.	0.5	39
65	Electronic structure of CuV ₂ S ₄ . Physical Review B, 1996, 53, 9626-9633.	3.2	28
66	Electronic structure of LiNiO ₂ , LiFeO ₂ and LiCrO ₂ : X-ray photoelectron and X-ray emission study. Solid State Communications, 1995, 95, 347-351.	1.9	40
67	Electronic structure of cuprates containing sulfur and phosphorus oxyanions. Physical Review B, 1995, 52, 11830-11836.	3.2	2
68	Electronic structure and valence-band spectra of Bi ₄ Ti ₃ O ₁₂ . Physical Review B, 1995, 52, 11805-11812.	3.2	15
69	X-ray emission, photoelectron spectra, and electronic structure of Sr ₂ CuO ₂ F ₂ + δ . Physical Review B, 1995, 52, 2390-2394.	3.2	20
70	Electronic structure of FeSi. Journal of Physics Condensed Matter, 1995, 7, 5529-5535.	1.8	13
71	Characterization of W/Si multilayers by ultrasoft x-ray emission spectroscopy. Journal of Materials Research, 1995, 10, 907-911.	2.6	10
72	Analysis of fluorine incorporation into YBa ₂ Cu ₃ O _{6.5} + δ by means of X-ray emission spectroscopy. Physica C: Superconductivity and Its Applications, 1994, 221, 71-75.	1.2	20

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73	X-ray emission spectra and electronic structure of high-T _c superconductors and binary oxides. Journal of Electron Spectroscopy and Related Phenomena, 1994, 68, 431-438.	1.7	4
74	Oxygen-cation interactions in superconducting cuprates and related compounds. Solid State Communications, 1994, 90, 769-772.	1.9	2
75	Transition metal impurities and band offsets in wide gap II-VI semiconductors: Zn _{1-x} MnxSe(Ni) compounds. Solid State Communications, 1994, 91, 279-282.	1.9	5
76	Analysis of the depth profile of Fe-Si buried layers in Fe ⁺ -implanted Si wafer by soft X-ray emission spectroscopy. Applied Surface Science, 1993, 72, 73-77.	6.1	14
77	Effects of Ce and F doping and reduction on the electronic structure of Nd _{2-x} Ce _x CuO ₄ and Nd ₂ CuO _{3.6} F _{0.4} as determined by x-ray-emission spectroscopy. Physical Review B, 1993, 47, 9035-9041.	3.2	13
78	Soft X-ray emission study of YBa ₂ Cu ₄ O ₈ . Solid State Communications, 1992, 84, 995-997.	1.9	7
79	Soft X-ray emission Cu L spectra and copper-oxygen bond covalency in high-T _c superconductors. Solid State Communications, 1992, 81, 1003-1007.	1.9	22
80	X-ray emission spectra and valence band structure of the 3d transition metal oxides. Physica B: Condensed Matter, 1991, 168, 163-169.	2.7	16
81	Electronic valence band structure of high-T _c superconductors. Physica C: Superconductivity and Its Applications, 1991, 177, 8-16.	1.2	26
82	Electron structure and correlation effects in high-T _c superconductors and transition metal oxides. Bulletin of Materials Science, 1991, 14, 1087-1091.	1.7	0
83	The ground state of the antiferromagnetic semiconductor YBa ₂ Cu ₃ O ₆ : electronic structure calculations and analysis of X-ray spectra. Materials Letters, 1990, 10, 34-38.	2.6	7
84	X-ray spectra and electronic structure of high-T _c superconductors La _{1.83} Sr _{0.17} CuO ₄ and Bi ₄ Ca ₃ Sr ₃ O ₁₆ . Physica C: Superconductivity and Its Applications, 1989, 160, 267-272.	1.2	13
85	X-ray emission spectra and electronic structure of Mn impurities in diluted Al, Ni and Cu-based solid solutions. Solid State Communications, 1986, 58, 143-146.	1.9	5
86	Electronic structure and nature of the color centers in MgF ₂ . Journal of Structural Chemistry, 1986, 27, 235-238.	1.0	0
87	An investigation of the effect of the nearest surroundings on the formation of V L _{2,3} emission bands for solid solutions of rare earth orthovanadates and orthophosphates. Journal of Electron Spectroscopy and Related Phenomena, 1985, 35, 87-99.	1.7	4
88	X-ray emission spectra and electronic structure of 3d impurities in Cu alloys. Journal of Physics F: Metal Physics, 1985, 15, 2041-2051.	1.6	8
89	X-ray emission spectra and electronic structure of TiS ₂ . Journal of Structural Chemistry, 1984, 25, 35-41.	1.0	1
90	Application of 3s X-Ray Photoelectron Spectra for Determination of Charge States and Magnetic Moments of 3d Ions in Oxides. Solid State Phenomena, 0, 168-169, 453-456.	0.3	1

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91	Infrared and X-Ray Absorption Spectra of Cu_2O and CuO Nanoceramics. Solid State Phenomena, 0, 190, 683-686.	0.3	4