

Valeriy Volodin

List of Publications by Year in descending order

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56
papers

359
citations

933447

10
h-index

940533

16
g-index

57
all docs

57
docs citations

57
times ranked

211
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanocomposite protective coatings based on Ti-Al-Ni-Cr-Nb-Si-Fe, their structure and properties. Vacuum, 2009, 83, S235-S239.	3.5	53
2	Measurement of astrophysical S-factors and electron screening potentials for reaction in ZrD ₂ , TiD ₂ and TaD _{0.5} targets in the ultralow energy region using plasma accelerator. Nuclear Physics A, 2012, 889, 93-104.	1.5	25
3	Novel superconducting niobium beryllide Nb ₃ Be with A15 structure. JETP Letters, 2003, 78, 440-442.	1.4	18
4	Investigation of temperature dependence of neutron yield and electron screening potential for the d(d, n) ³ He reaction proceeding in deuterides ZrD ₂ and TiD ₂ . Physics of Atomic Nuclei, 2012, 75, 913-922.	0.4	17
5	Micro- and nanocomposite Ti-Al-Ni-Cr-B-Si-Fe-based protective coatings: Structure and properties. Technical Physics, 2011, 56, 1023-1030.	0.7	16
6	Study of the d(p, ³ He) reaction at ultralow energies using a zirconium deuteride target. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 737, 248-252.	1.6	13
7	Inelastic scattering and clusters transfer in ³ He + ⁹ Be reactions. Physics of Particles and Nuclei Letters, 2015, 12, 703-712.	0.4	13
8	Investigation of the structure and physicochemical properties of combined nanocomposite coatings based on Ti-Al-Ni-Cr-Nb-Si-Fe. Russian Physics Journal, 2009, 52, 1317-1324.	0.4	12
9	Experimental verification of hypothesis of dd reaction enhancement by channeling of deuterons in titanium deuteride at ultralow energies. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 764, 42-47.	1.6	12
10	Measurement of astrophysical S factors and electron screening potentials for d(d, n) ³ He reaction in ZrD ₂ , TiD ₂ , D ₂ O, and CD ₂ targets in the ultralow energy region using plasma accelerators. Physics of Atomic Nuclei, 2012, 75, 53-62.	0.4	11
11	First experimental evidence of D(p, ³ He) reaction in deuteride titanium in ultralow collision energy region. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 753, 91-96.	1.6	10
12	Effect of the crystal structure of a deuterated target on the yield of neutrons in the dd reaction at ultralow energies. JETP Letters, 2014, 99, 497-502.	1.4	10
13	Cluster Structure of ⁹ Be from ³ He + ⁹ Be Reaction. Journal of Physics: Conference Series, 2016, 724, 012031.	0.4	10
14	Structure and phase composition of Nb-C deposited films. Physics of Metals and Metallography, 2013, 114, 395-399.	1.0	9
15	Tantalum-cadmium film coatings: Preparation, phase composition, and structure. Physics of Metals and Metallography, 2015, 116, 56-62.	1.0	9
16	Whisker microcrystals on the surface of tantalum-cadmium alloy films. Technical Physics Letters, 2015, 41, 529-531.	0.7	9
17	Nanosize ¹² -tantalum coatings: Formation, structure, and properties. Physics of Metals and Metallography, 2013, 114, 573-579.	1.0	8
18	New Mo ₃ Pb phase with a15 structure formed in solid solutions of film molybdenum-lead system. Physics of Metals and Metallography, 2014, 115, 500-506.	1.0	7

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19	Effect of pd and dd reactions enhancement in deuterides TiD ₂ , ZrD ₂ and Ta ₂ D in the astrophysical energy range. Physics of Particles and Nuclei Letters, 2016, 13, 79-97.	0.4	7
20	Meltâ€“gas phase equilibria and state diagrams of the seleniumâ€“tellurium system. Russian Journal of Physical Chemistry A, 2017, 91, 800-804.	0.6	6
21	Structure of sputter-deposited films of \hat{I}^2 -tantalum-aluminum alloys. Physics of Metals and Metallography, 2013, 114, 935-939.	1.0	5
22	Measuring the astrophysical S factors and the cross sections of the p(d, \hat{I}^3) ³ He reaction in the ultralow energy region using a zirconium deuteride target. Physics of Particles and Nuclei Letters, 2013, 10, 717-722.	0.4	5
23	Liquid-vapor phase equilibrium in a tin-selenium system. Russian Journal of Physical Chemistry A, 2014, 88, 2029-2034.	0.6	5
24	Structure and phase composition of deposited tantalumâ€“carbon films. Physics of Metals and Metallography, 2016, 117, 789-794.	1.0	5
25	Targets of deuterides TiD ₂ , ZrD ₂ , NbD, and CrD ₂ with different structures used in experiments on the study of pd and dd reactions at astrophysical energies. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 810, 80-85.	1.6	5
26	Saturated vapor pressure in the thallium-cadmium system. Russian Journal of Physical Chemistry A, 2008, 82, 1075-1079.	0.6	4
27	Structure of \hat{I}^2 -tantalum-tungsten alloy films produced by the codeposition of sputtered metals. Journal of Surface Investigation, 2014, 8, 169-174.	0.5	4
28	First experimental evidence of D(p, \hat{I}^3) ³ He reaction in titanium deuteride in ultralow collision energy region. Journal of Experimental and Theoretical Physics, 2014, 119, 54-62.	0.9	4
29	Structure and phase composition of films formed by ultradispersed particles of iron and carbon. Journal of Surface Investigation, 2015, 9, 822-830.	0.5	4
30	Structure and phase composition of niobium-copper deposited films. Journal of Surface Investigation, 2015, 9, 178-183.	0.5	4
31	Interaction between 20âˆ’30 keV X-ray quanta and deuterated crystal structures. Journal of Surface Investigation, 2017, 11, 179-185.	0.5	4
32	Amorphous silicon coatings with silver nanoparticles. Technical Physics Letters, 2013, 39, 998-1000.	0.7	3
33	Formation of porous \hat{I}^{\pm} tantalum in films. Technical Physics, 2015, 60, 1157-1161.	0.7	3
34	A method for investigation of the D(4He, \hat{I}^3) ⁶ Li reaction in the Ultralow energy region under a high background. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 825, 24-30.	1.6	3
35	Glancing angle X-ray diffractometry of ion-implanted metals by means of synchrotron radiation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1991, 308, 308-311.	1.6	2
36	Experimental determination of the electron screening potential energy for the d(d, n) ³ He Reaction in ZrD ₂ and D ₂ O in the ultralow energy region. Bulletin of the Russian Academy of Sciences: Physics, 2010, 74, 1570-1574.	0.6	2

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37	Liquid-vapor phase equilibrium in the stratifying thallium-zinc system. Russian Journal of Non-Ferrous Metals, 2010, 51, 205-211.	0.6	2
38	Structural features of Ag-Cu alloy films produced by the codeposition of sputtered metals. Journal of Surface Investigation, 2013, 7, 1183-1187.	0.5	2
39	Radiation-induced phase transition in a film of niobium-tin solid solution. Technical Physics, 2014, 59, 1136-1140.	0.7	2
40	Experimental observation of electron screening for the $D(p, ^3\text{He})$ nuclear reaction in titanium Deuteride TiD. Physics of Particles and Nuclei Letters, 2014, 11, 467-472.	0.4	2
41	Investigation of the reaction $D(4\text{He}, ^3\text{He})^6\text{Li}$ at ultralow energies. Physics of Particles and Nuclei Letters, 2016, 13, 190-197.	0.4	2
42	Phase diagram of the selenium-sulfur system in the pressure range $1 \cdot 10^{-5}$ – $1 \cdot 10^1$ MPa. Russian Journal of Physical Chemistry A, 2016, 90, 2183-2187.	0.6	2
43	Liquid-vapor phase transition upon pressure decrease in the lead-bismuth system. Russian Journal of Physical Chemistry A, 2009, 83, 1993-1995.	0.6	1
44	Liquid-vapor phase transition in a stratifying lead-zinc system upon a reduction in pressure. Russian Journal of Physical Chemistry A, 2011, 85, 1285-1287.	0.6	1
45	The structural-phase state of iron-carbon coatings formed by the ultradispersed particles. , 2014, , .		1
46	Structure of niobium-tungsten alloy films produced by metal sputtering. Journal of Surface Investigation, 2014, 8, 1146-1151.	0.5	1
47	Cadmium telluride in tellurium-cadmium films consisting of ultradispersed particles. Technical Physics, 2015, 60, 1171-1175.	0.7	1
48	New carbon structures in annealed carbon-cadmium film coatings. Journal of Surface Investigation, 2016, 10, 1187-1191.	0.5	1
49	Melt-vapor phase transition in the lead-selenium system at atmospheric and low pressure. Russian Journal of Physical Chemistry A, 2016, 90, 572-574.	0.6	1
50	Textured targets of deuterides TiD ₂ , ZrD ₂ , NbD, and CrD ₂ in experiments to study the pd and dd reaction mechanisms at astrophysical energies. Physics of Particles and Nuclei Letters, 2016, 13, 98-103.	0.4	1
51	A new carbon structure in annealed film coatings of the carbon-lead system. Technical Physics Letters, 2017, 43, 126-129.	0.7	1
52	Shikisattardy Keshendi Paidalanu, 2018, 307, 56-64.	0.2	1
53	The thermodynamic properties of liquid and vapor in the cadmium-thallium-lead system. Russian Journal of Physical Chemistry A, 2009, 83, 1817-1822.	0.6	0
54	Determining a liquidus line under isothermal conditions. Russian Journal of Physical Chemistry A, 2011, 85, 2047-2049.	0.6	0

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55	High-temperature decomposition of solid solutions of beta-tantalum with copper in films. Physics of Metals and Metallography, 2014, 115, 481-485.	1.0	0
56	Study of the possibility of solving cosmological lithium problem in an accelerator experiment. Physics of Atomic Nuclei, 2017, 80, 203-210.	0.4	0