

Andrei N Timoshevskii

List of Publications by Year in descending order

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38
papers

338
citations

933447

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888059

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39
all docs

39
docs citations

39
times ranked

310
citing authors

#	ARTICLE	IF	CITATIONS
1	Temperature-controlled interlayer exchange coupling in strong/weak ferromagnetic multilayers: A thermomagnetic Curie switch. <i>Physical Review B</i> , 2012, 86, .	3.2	43
2	Atomic structure and mechanical properties of carbyne. <i>Physical Review B</i> , 2015, 91, .	3.2	35
3	<i>Ab initio</i> studies of magnetism in transition-metal-doped silicon carbide. <i>Physical Review B</i> , 2007, 76, .	3.2	33
4	Mechanical properties of carbyne: experiment and simulations. <i>Nanoscale Research Letters</i> , 2015, 10, 24.	5.7	32
5	The influence of carbon and nitrogen on the electronic structure and hyperfine interactions in face-centred-cubic iron-based alloys. <i>Journal of Physics Condensed Matter</i> , 2001, 13, 1051-1061.	1.8	25
6	The Peculiarities of the Electronic Structure of BaTiO_3 in the ATiO_3 ($A = \text{Ca}$) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.5	22
7	Thermomechanical Stability of Carbyne-Based Nanodevices. <i>Nanoscale Research Letters</i> , 2017, 12, 327.	5.7	20
8	Electronic structure, hyperfine interactions and disordering effects in iron nitride Fe_4N . <i>Computational Materials Science</i> , 2001, 22, 99-105.	3.0	19
9	Exchange-induced phase separation in $\text{Ni}\hat{\epsilon}\text{Cu}$ films. <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 2131-2135.	2.3	13
10	Determination of the space group and unit cell for a periodic solid. <i>Computer Physics Communications</i> , 2001, 139, 235-242.	7.5	11
11	On chemical bonding and helium distribution in hcp beryllium. <i>Low Temperature Physics</i> , 2011, 37, 791-797.	0.6	9
12	Chemical bonding and crystal structure of Zr-based intermetallic high-temperature shape memory alloys. <i>Chemistry of Metals and Alloys</i> , 2013, 6, 205-208.	0.1	9
13	New method for ecological monitoring based on the method of self-organising mathematical models. <i>Ecological Modelling</i> , 2003, 162, 1-13.	2.5	8
14	Multiple Magnetic States of Silicon Carbide Diluted Magnetic Semiconductors. <i>Journal of Electronic Materials</i> , 2010, 39, 545-553.	2.2	8
15	Lifetime of carbyne-based nanodevices: size and $\hat{\epsilon}$ even-odd $\hat{\epsilon}$ effects. <i>European Physical Journal Plus</i> , 2019, 134, 1.	2.6	7
16	Atomic mechanisms governing upper limit on the strength of nanosized crystals. <i>Engineering Fracture Mechanics</i> , 2015, 150, 184-196.	4.3	5
17	The Peculiarities of the Electronic Structure of the $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ Compound. <i>Physica Status Solidi (B): Basic Research</i> , 1988, 146, 161-171.	1.5	4
18	The nature of nanostructured Cu-Fe-O alloys produced by copper-steel sliding part I: Experimental data. <i>Scripta Materialia</i> , 1995, 5, 699-708.	0.5	4

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19	Relation between the strength and dimensionality of defect-free carbon crystals. <i>Nanoscale Research Letters</i> , 2015, 10, 225.	5.7	4
20	Electronic structure of intermetallic compounds by interpolation schemes. <i>Physica Status Solidi (B): Basic Research</i> , 1982, 114, 449-458.	1.5	3
21	Composition dependence of the low-temperature magnetic ordering and the hyperfine interactions in Fe ⁵⁷ N austenite. <i>Low Temperature Physics</i> , 2004, 30, 469-478.	0.6	3
22	On the influence of vacancies on the electronic properties of beryllium. <i>Low Temperature Physics</i> , 2007, 33, 889-891.	0.6	3
23	Ab-initio design of 3D carbyne-based material. <i>Computational Materials Science</i> , 2017, 128, 223-228.	3.0	3
24	Ordering Effects and Hyperfine Interactions in Fe ⁵⁷ N Austenites. <i>Hyperfine Interactions</i> , 2004, 158, 111-115.	0.5	2
25	Phase stability during martensitic transformation in ZrCu intermetallics: crystal and electronic structure aspects. , 2009, , .		2
26	Partial local densities of electron states and X-ray emission K α spectra of titanium in TiLi, TiTc, TiRu and SrTiO ₃ compounds. <i>Crystal Research and Technology: Journal of Experimental and Industrial Crystallography</i> , 1980, 15, 1429-1432.	0.3	1
27	Influence of substitutional (Cr, Mn, Ni) and interstitial (C, N, O) impurities on the electronic structure and magnetic properties of \pm -Fe based alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 1995, 140-144, 115-116.	2.3	1
28	The nature of nanostructured Cu-Fe-O alloys produced by copper-steel sliding part II: Theoretical analysis. <i>Scripta Materialia</i> , 1995, 5, 709-715.	0.5	1
29	The investigation of the effect of electronic charge transfer for the YBa ₂ Cu ₃ O ₇ phase. <i>European Physical Journal D</i> , 1996, 46, 929-930.	0.4	1
30	Electronic Structure and Nature of Hyperfine Interactions in Carbon and Nitrogen Austenites. <i>Materials Science Forum</i> , 2001, 373-376, 713-716.	0.3	1
31	A New Method of Mössbauer Spectra Treatment Based on the Method of Self-Organisation of Mathematical Models. <i>Hyperfine Interactions</i> , 2005, 159, 395-400.	0.5	1
32	Spin-dependent scattering and magnetic proximity effect in Ni-doped Co/Cu multilayers as a probe of atomic magnetism. <i>Journal of Applied Physics</i> , 2019, 125, 023907.	2.5	1
33	Key factors governing lifetime of carbyne-graphene nanoelements. <i>Theoretical and Applied Fracture Mechanics</i> , 2020, 108, 102609.	4.7	1
34	On Energetics of Formation of Small Vacancy Complexes in the H.C.P. Beryllium. <i>Metallofizika i Noveishie Tekhnologii</i> , 2016, 37, 149-155.	0.5	1
35	The peculiarities of the electronic structure of La ₂ CuO ₄ and YBa ₂ Cu ₃ O _{7-δ} compounds. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1995, 72, 101-105.	1.7	0
36	Electronic structure of the La ₂ CuO ₄ compound. <i>Journal of Magnetism and Magnetic Materials</i> , 1995, 140-144, 1283-1284.	2.3	0

#	ARTICLE	IF	CITATIONS
37	The electronic structure and superconducting properties of $Y_{1-x}Pr_xBa_2Cu_3O_7$ compound. European Physical Journal D, 1996, 46, 1451-1452.	0.4	0
38	Ordering Effects and Hyperfine Interactions in Fe-N Austenites. , 2005, , 111-115.		0