Nikolay Chechenin

List of Publications by Year
in descending order

83	970	516710 16	552781 26
papers	citations	h-index	g-index

84	84	84	641
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Temperature-dependent magnetization reversal in exchange bias NiFe/IrMn/NiFe structures. Journal of Magnetism and Magnetic Materials, 2019, 482, 370-375.	2.3	2
2	Inhomogeneous magnetic field influence on magnetic properties of NiFe/IrMn thin film structures. Journal of Magnetism and Magnetic Materials, 2019, 475, 763-766.	2.3	10
3	Ozone functionalized CNT-based filters for high removal efficiency of benzene from aqueous solutions. Journal of Water Process Engineering, 2018, 25, 81-87.	5.6	13
4	He ion irradiation effects on multiwalled carbon nanotubes structure. European Physical Journal D, 2017, 71, 1.	1.3	17
5	Functionalized carbon nanotubes based filters for chromium removal from aqueous solutions. Water Science and Technology, 2017, 75, 1564-1571.	2.5	19
6	Nuclear contribution into single-event upset in 3D on-board electronics at moderate energy cosmic proton impact. EPJ Web of Conferences, 2016, 117, 05006.	0.3	1
7	Erosion of carbon nanotube-based polymer nanocomposites exposed to oxygen plasma. Journal of Surface Investigation, 2016, 10, 617-622.	0.5	5
8	Exchange Bias and Coercivity Fields as a Function of the Antiferromagnetic Layer Thickness in bi- and tri- layered thin-films Based on IrMn and NiFe. Physics Procedia, 2016, 82, 51-55.	1.2	5
9	Characterization of functionalized multiwalled carbon nanotubes and application as an effective filter for heavy metal removal from aqueous solutions. Chinese Journal of Chemical Engineering, 2016, 24, 1695-1702.	3.5	24
10	Removal of iron and manganese from aqueous solutions using carbon nanotube filters. Water Science and Technology: Water Supply, 2016, 16, 347-353.	2.1	20
11	Morphological and structural modifications of multiwalled carbon nanotubes by electron beam irradiation. Materials Research Express, 2016, 3, 105013.	1.6	12
12	Development of methods for calculating basic features of the nuclear contribution to single event upsets under the effect of protons of moderately high energy. Physics of Atomic Nuclei, 2015, 78, 890-894.	0.4	2
13	Dependence of the Exchange Bias on the Thickness of Antiferromagnetic Layer in the Trilayered NiFe/IrMn/NiFe Thin-films. Physics Procedia, 2015, 75, 1066-1071.	1.2	4
14	Space radiation environment prediction for VLSI microelectronics devices onboard a LEO satellite using OMERE-TRAD software. Advances in Space Research, 2015, 56, 314-324.	2.6	16
15	Dependence of Exchange Bias Field on Thickness of Antiferromagnetic Layer in NiFe/IrMn Structures. Acta Physica Polonica A, 2015, 127, 555-557.	0.5	6
16	Tungsten fragmentation in nuclear reactions induced by high-energy cosmic-ray protons. Physics of Atomic Nuclei, 2015, 78, 159-166.	0.4	3
17	Asymmetry of Magnetization Reversal of Pinned Layer in NiFe/Cu/NiFe/IrMn Spin-Valve Structure. Journal of Superconductivity and Novel Magnetism, 2014, 27, 1547-1552.	1.8	7
18	Influence of surface roughness and deposition order on exchange bias in bilayer structures NiFe/IrMn. EPJ Web of Conferences, 2014, 75, 05010.	0.3	2

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19	Synthesis and electroconductivity of epoxy/aligned CNTs composites. Applied Surface Science, 2013, 275, 217-221.	6.1	35
20	Impact of high-energy cosmic-ray protons and ions on the elements of spacecraft on-board devices. Journal of Surface Investigation, 2012, 6, 303-313.	0.5	10
21	Formation of oriented rodlike nickel silicide precipitates during magnetron deposition of carbon and nickel on silicon. Journal of Surface Investigation, 2011, 5, 65-69.	0.5	1
22	Comparison of experimental data with predictions of various models for silicon and aluminum fragmentation under the effect of high-energy cosmic rays. Physics of Atomic Nuclei, 2011, 74, 1718-1724.	0.4	1
23	Magnetic anisotropy in IrMn/Co structures with an alternative sequence of deposition of antiferromagnetic and ferromagnetic layers. Physics of the Solid State, 2010, 52, 1701-1708.	0.6	7
24	On the quantification of unbound hydrogen in diamond-like carbon-based thin films. Scripta Materialia, 2009, 61, 320-323.	5.2	6
25	Exchange bias in the IrMn/Co structures with alternative sequences of antiferromagnetic and ferromagnetic layers. JETP Letters, 2009, 88, 602-606.	1.4	7
26	Silicon fragmentation under the effect of high-energy cosmic-ray protons. Physics of Atomic Nuclei, 2009, 72, 1767-1772.	0.4	5
27	Recoil-nucleus spectra in the interaction of cosmic-ray protons with spacecraft electronics. Physics of Atomic Nuclei, 2008, 71, 1293-1297.	0.4	7
28	On the composition analysis of nc-TiC/a-Câ€‰:â€‰H nanocomposite coatings. Journal Physics D: Applied Physics, 2008, 41, 085402.	2.8	6
29	Nonlinearities in composition dependence of structure parameters and magnetic properties of nanocrystalline fcc/bcc-mixed Coâ€“Niâ€“Fe thin films. Journal of Applied Physics, 2008, 103, 07E738.	2.5	6
30	FCC/BCC competition and enhancement of saturation magnetization in nanocrystalline Co-Ni-Fe films. JETP Letters, 2007, 85, 212-215.	1.4	6
31	Magnetic properties of thin Coâ€“Feâ€“Ni films. Journal of Magnetism and Magnetic Materials, 2007, 316, 451-453.	2.3	19
32	Ion-beam analysis of the structure and composition of nanocomposite nc-TiC/a-C:H coatings. Journal of Surface Investigation, 2007, 1, 674-678.	0.5	2
33	Determining the mass density of a hydrocarbon matrix in thin-film nanocomposites by ion-beam techniques. Technical Physics Letters, 2007, 33, 919-922.	0.7	0
34	Influence of stresses and magnetostriction on the soft magnetic behavior of metallic films. Journal of Magnetism and Magnetic Materials, 2006, 299, 219-224.	2.3	14
35	Micromagnetism and high-frequency properties of soft magnetic films. Journal of Magnetism and Magnetic Materials, 2006, 300, 198-201.	2.3	7
36	Variation of structure and magnetic properties with thickness of thin Co59Fe26Ni15 films. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 1539-1542.	2.3	16

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37	Ultra-soft magnetic films: micromagnetism and high frequency properties. Microelectronic Engineering, 2005, 81, 303-309.	2.4	3
38	Effect of internal stray fields on the high-frequency properties of magnetic thin films. Physics of the Solid State, 2004, 46, 479-483.	0.6	7
39	On the formation of ultra-fine grained Fe-base alloys via phase transformations. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 367, 176-184.	5.6	5
40	Soft magnetism in nitrided Fe93Ni4Cr3 and Fe94Ni4Ti2 cold-rolled alloys. Journal of Magnetism and Magnetic Materials, 2003, 263, 47-56.	2.3	4
41	Thermal stability of the in-plane magnetic anisotropy and the coercivity of nanocrystalline CoFeNi films. Journal of Magnetism and Magnetic Materials, 2003, 266, 251-257.	2.3	18
42	Effects of topography on the local variation in the magnetization of ultrasoft magnetic films: A Lorentz microscopy study. Philosophical Magazine, 2003, 83, 2899-2913.	1.6	4
43	Thermal stability of ultrasoft Feâ€“Zrâ€“N films. Journal of Physics Condensed Matter, 2003, 15, 7663-7674.	1.8	11
44	Ultrasoft Magnetic Films Investigated with Lorentz Tranmission Electron Microscopy and Electron Holography. Microscopy and Microanalysis, 2002, 8, 274-287.	0.4	9
45	Relation between observed micromagnetic ripple and FMR width in ultrasoft magnetic films. IEEE Transactions on Magnetics, 2002, 38, 3027-3029.	2.1	11
46	Controlling the induced anisotropy in soft magnetic films for high-frequency applications. IEEE Transactions on Magnetics, 2002, 38, 3144-3146.	2.1	14
47	Structure and Soft Magnetic Properties of Fe?Zr?N Films. Physica Status Solidi A, 2002, 189, 833-836.	1.7	21
48	Precipitate formation in low-temperature nitrided cold-rolled Fe94Ni4Ti2 and Fe93Ni4Cr3 films. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2002, 33, 3075-3087.	2.2	14
49	Microstructure of nanocrystalline FeZr(N)-films and their soft magnetic properties. Journal of Magnetism and Magnetic Materials, 2002, 242-245, 180-182.	2.3	18
50	Positron Annihilation in Gaseous Nitrided Cold-Rolled FeNiTi Films. Materials Science Forum, 2001, 363-365, 493-495.	0.3	4
51	TEM Study of Ti-N and Cr-N Precipitate Formation in Iron Alloys. Physica Status Solidi A, 2000, 177, 117-125.	1.7	13
52	Low-Temperature Nitridation of Iron Layers in NH3-H2 Mixtures. Physica Status Solidi A, 2000, 177, 127-133.	1.7	18
53	Anatolii Filippovich Tulinov is 75. Physics of Atomic Nuclei, 2000, 63, 918-919.	0.4	0
54	Investigation of laser-induced defect formation in CdTe crystals by Rutherford backscattering. Physics of the Solid State, 1998, 40, 187-189.	0.6	11

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55	Nanoindentation of amorphous aluminum oxide films III. The influence of the substrate on the elastic properties. Thin Solid Films, 1997, 304, 70-77.	1.8	45
56	A â€˜hydrostatic coreâ€™ model of elastic deformations in an indented film/substrate system. Thin Solid Films, 1997, 304, 78-84.	1.8	9
57	Nanoindentation of amorphous aluminum oxide films I. The influence of the substrate on the plastic properties. Thin Solid Films, 1995, 261, 219-227.	1.8	102
58	Nanoindentation of amorphous aluminum oxide films II. Critical parameters for the breakthrough and a membrane effect in thin hard films on soft substrates. Thin Solid Films, 1995, 261, 228-235.	1.8	50
59	The thermodynamic factor in interdiffusion: A strong effect in amorphous Ni-Zr. Acta Metallurgica Et Materialia, 1995, 43, 551-558.	1.8	13
60	Formation of low friction and wear-resistant carbon coatings on tool steel by 75 keV, high-dose carbon ion implantation. Surface and Coatings Technology, 1994, 65, 154-159.	4.8	14
61	Ion irradiation induced grain growth in nanocrystalline Fe and Fe (Zr). Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1994, 179-180, 582-586.	5.6	18
62	Temperature effects on nitrogen diffusion and hardness of aluminum surface implanted with nitrogen. Surface and Coatings Technology, 1994, 66, 334-339.	4.8	12
63	Measurements of self-diffusion of Ni and interdiffusion in thin-film amorphous Niî—¸Zr using RBS. Nuclear Instruments & Methods in Physics Research B, 1994, 85, 197-201.	1.4	2
64	Diffusion in thin-film amorphous metallic alloys. Nuclear Instruments & Methods in Physics Research B, 1994, 85, 206-215.	1.4	5
65	Lowered interdiffusivity in thin amorphous Ni-Zr films with large composition gradients. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1994, 69, 1083-1091.	0.6	6
66	Influence of Pulsed Laser Energy Deposition on Transport Properties and Structure in Trilayer Epitaxial (Y/Pr)Ba2Cu3O7â€”x/SrTiO3 Films. Physica Status Solidi A, 1993, 136, 107-111.	1.7	0
67	Damage and aluminum distributions in sic during ion implantation and annealing. Nuclear Instruments & Methods in Physics Research B, 1992, 65, 341-344.	1.4	48
68	Channeling in RBa2Cu3O7 â^' x single crystals. Nuclear Instruments & Methods in Physics Research B, 1990, 48, 207-210.	1.4	3
69	A channeling study of ion-produced disorder in silicon carbide. Nuclear Instruments & Methods in Physics Research B, 1990, 48, 235-239.	1.4	10
70	Melting and Damage Production in Silicon Carbide under Pulsed Laser Irradiation. Physica Status Solidi A, 1990, 121, 399-406.	1.7	7
71	Depth distribution analysis of martensitic transformations in Xe implanted austenitic stainless steel. Nuclear Instruments & Methods in Physics Research B, 1989, 39, 573-577.	1.4	21
72	Channeling in PrBa 2 Cu 3 O 7â^'x -single crystals. Physica C: Superconductivity and Its Applications, 1989, 162-164, 949-950.	1.2	1

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73	Studies of Amorphous Layer Formation in SiC under Ga+ Bombardment. Physica Status Solidi A, 1989, 112, 707-714.	1.7	0
74	SiC amorphlzation as a result of Ga+ implantation. Nuclear Instruments & Methods in Physics Research B, 1988, 33, 788-791.	1.4	5
75	Channeling study of the orientational dependence of laser-induced damage in GaAs and GaP. Nuclear Instruments & Methods in Physics Research B, 1988, 33, 844-847.	1.4	2
76	Channeling study of laser-induced damage in GaP. Nuclear Instruments & Methods in Physics Research B, 1986, 13, 503-505.	1.4	2
77	The location of substitutional foreign atoms in GaAs by asymmetry of backscattering yield near. Radiation Effects, 1984, 83, 91-97.	0.4	8
78	Lifetime-effect relations in the blocking technique for a thick crystal. Radiation Effects, 1982, 66, 183-193.	0.4	8
79	Asymmetry of depth oscillations for ã€˜110ã€‰ channeling in GaP. Nuclear Instruments & Methods in Physics Research, 1982, 194, 129-132.	0.9	11
80	Location of impurities in compounds by asymmetry of channeling dips. Applied Physics Letters, 1981, 39, 758-760.	3.3	35
81	Lifetimes of the nuclei formed by deuterons bombardment of 235U. Nuclear Instruments & Methods, 1980, 170, 145-149.	1.2	1
82	Decay times for second-chance fission of 239U studied by crystal blocking. Nuclear Physics A, 1979, 324, 39-52.	1.5	7
83	Lifetime measurements on the compound nucleus 236U by means of the shadow effect. Nuclear Physics A, 1977, 281, 295-309.	1.5	14