Leonid Afremov

List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/733000/leonid-afremov-publications-by-year.pdf
Version: 2024-04-28

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

45 papers	79 citations	5 h-index	7 g-index
46 ext. papers	87 ext. citations	0.8 avg, IF	2.52 L-index

#	Paper	IF	Citations
45	Modelling the influence of interphase and magnetostatic interaction on the magnetic characteristics of core/shell nanoparticles. *Chinese Journal of Physics*, **2022**, 77, 452-464	3.5	
44	Modeling the effect of temperature and size of core/shell nanoparticles on the exchange bias of a hysteresis loop. *Journal of Magnetism and Magnetic Materials*, **2020**, 500, 166366	2.8	2
43	Blocking Temperature and Hysteresis Characteristics of Nanoparticles of Oxidated Magnetite. *Springer Geophysics*, **2019**, 195-203	0.6	
42	Size effect on the hysteresis characteristics of a system of interacting core/shell nanoparticles. *Journal of Magnetism and Magnetic Materials*, **2018**, 447, 88-95	2.8	10
41	Thermoremanent and chemical magnetization of exsolution products of nanosized titanomagnetites. *Izvestiya, Physics of the Solid Earth*, **2018**, 54, 128-133	1	2
40	Possibility to use of the Fe3O4/Ta2O5 core-shell nanoparticles in radiotherapy. *EPJ Web of Conferences*, **2018**, 185, 10008	0.3	
39	Magnetic Radio Modifier Based on the Fe3O4/Ta2O5 Nanoparticles. *Defect and Diffusion Forum*, **2018**, 386, 156-160	0.7	
38	Dependence of the Hysteresis Characteristics of Co-Au Core-Shell Nanoparticles on the Size of the Particles. *Solid State Phenomena*, **2015**, 233-234, 554-557	0.4	
37	Dependence of Relaxation Time on the Core Size Two-Phase Nanoparticles Magnetite/Titanomagnetite. *Applied Mechanics and Materials*, **2015**, 752-753, 418-421	0.3	
36	Average Spin Approximation in the Heisenberg Model. *Applied Mechanics and Materials*, **2015**, 752-753, 243-246	0.3	
35	Simulation of deformations in magnetic media by the movable cellular automata method. *Journal of Physics: Conference Series*, **2015**, 633, 012018	0.3	
34	Magnetic Condition Flat Core/Shell Nanoparticles. *Applied Mechanics and Materials*, **2015**, 752-753, 238-242	0.3	1
33	Modeling the implications of chemical transformations for the magnetic properties of a system of titanomagnetite nanoparticles. *Izvestiya, Physics of the Solid Earth*, **2015**, 51, 613-621	1	3
32	Dependence of the Curie temperature on the thickness of an ultrathin film. *Bulletin of the Russian Academy of Sciences: Physics*, **2014**, 78, 104-107	0.4	2
31	Dependence of the metastability of the magnetic states of two-phase nanoparticles on mechanical stress. *Bulletin of the Russian Academy of Sciences: Physics*, **2014**, 78, 119-122	0.4	
30	The Effect of Mechanical Stresses on the Coercive Force of the System of Two-Phase Interacting Nanoparticles. *Solid State Phenomena*, **2014**, 215, 89-94	0.4	
29	Influence of Interfacial Exchange Interaction on the Two-Phase Relaxation Time of Superparamagnetic Nanoparticles. *Advanced Materials Research*, **2014**, 893, 153-157	0.5	

28	Simulation of the Motion of Magnetic Nanoparticles in Human Tissues. *Solid State Phenomena*, **2014** , 215, 284-287	0.4	1
27	Effective Anisotropy Constant of Bilayer Film. *Advanced Materials Research*, **2014**, 887-888, 779-782	0.5	
26	Dependence of the Magnetic State of a Multi-Axis Nanoparticles from the Induced Anisotropy. *Advanced Materials Research*, **2014**, 893, 158-161	0.5	
25	Bethe Approximation in the Theory of "Average Spin". *Advanced Materials Research*, **2014**, 900, 260-263	0.5	1
24	Blocking Temperature of the System Core-Shell Nanoparticles. *Advanced Materials Research*, **2014**, 887-888, 167-169	0.5	
23	Phase Transition in Ultrathin Films. *Solid State Phenomena*, **2014**, 215, 227-232	0.4	2
22	The Scientific Picture of the World as a Basis of Nanoelectronic Engineer□ Professional Competence. *Advanced Materials Research*, **2013**, 655-657, 2165-2169	0.5	1
21	Effect of Magnetic and Geometric Properties on the Time of Magnetic Relaxation of Superparamagnetic Core-Shell Nanoparticles. *Advanced Materials Research*, **2013**, 821-822, 1336-1340	0.5	
20	Modeling of the magnetic properties of nanomaterials with different crystalline structure. *Journal of Physics: Conference Series*, **2013**, 410, 012017	0.3	2
19	Magnetic Dual-Phase State of Superparamagnetic Particles in the Field of Mechanical Stresses. *Advanced Materials Research*, **2013**, 683, 377-380	0.5	3
18	On the Calculation of Effective Anisotropy Constant of Nanoparticle. *Advanced Materials Research*, **2013**, 734-737, 2310-2313	0.5	
17	Effect of Mechanical Stress on Magnetic States and Hysteresis Characteristics of a Two-Phase Nanoparticles System. *Journal of Nanomaterials*, **2013**, 2013, 1-15	3.2	11
16	Dependence of Neel Temperature on Ultrathin Film Thickness. *Advanced Materials Research*, **2013**, 813, 319-322	0.5	2
15	Magnetic Concentration Phase Transitions in Ultrathin Films. *Advanced Materials Research*, **2013**, 683, 69-72	0.5	11
14	Influence of Crystal Structure on the Magnetic Percolation Threshold in Ultrathin Films. *Applied Mechanics and Materials*, **2013**, 328, 823-826	0.3	3
13	Effect of Mechanical Stresses on Metastability of Heterophase Superparamagnetic Nanoparticles. *Advanced Materials Research*, **2012**, 602-604, 201-204	0.5	
12	Effect of Mechanical Stresses on the Coercive Force of the Heterophase Non-Interacting Nanoparticles. *Advanced Materials Research*, **2012**, 472-475, 2199-2202	0.5	1
11	Magnetic States of Heterophase Particle in the Field of Mechanical Stresses. *Advanced Materials Research*, **2012**, 557-559, 735-738	0.5	4

10	Effect of Mechanical Stresses on Coercive Force and Saturation Remanence of Ensemble of Dual-Phase Interacting Nanoparticles. *Advanced Materials Research*, **2012**, 557-559, 501-504	0.5	
9	Phase Transitions in Systems with Finite Number of Atoms. *Advanced Materials Research*, **2012**, 472-475, 1827-1830	0.5	3
8	Effect of elastic and plastic deformations on the remanent magnetization of an ensemble of nanoparticles. *Physics of Metals and Metallography*, **2011**, 112, 13-24	1.2	2
7	Effect of mechanical stresses on the initial susceptibility and hysteresis characteristics of an ensemble of nanoparticles. *Physics of Metals and Metallography*, **2011**, 112, 425-431	1.2	
6	Magnetic Phase Transitions in Ultrathin Films of Different Crystal Structures. *Advanced Materials Research*, **2011**, 378-379, 589-592	0.5	6
5	Practical importance of models in the problems of rock magnetism. *Izvestiya, Physics of the Solid Earth*, **2010**, 46, 641-645	1	
4	Magnetic aftereffect in systems of single-domain interacting particles and magnetic viscosity of rocks. *Izvestiya, Physics of the Solid Earth*, **2009**, 45, 57-62	1	1
3	Piezoremanent magnetization of the ensemble of single-domain particles. *Izvestiya, Physics of the Solid Earth*, **2009**, 45, 63-69	1	0
2	Effect of mechanical stresses on the saturation remanence of a system of nanoparticles. *Physics of Metals and Metallography*, **2008**, 106, 238-246	1.2	5
1	Blocking Temperature of a System of Core/Shell Nanoparticles. *Solid State Phenomena*,312, 270-274	0.4	