

Iurii Gudyma

List of Publications by Year in descending order

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papers

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all docs

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47
times ranked

218
citing authors

#	ARTICLE	IF	CITATIONS
1	Ostwald ripening of quantum-dot nanostructures. <i>Semiconductors</i> , 2001, 35, 1378-1382.	0.5	39
2	Phase transition in spin-crossover compounds in the breathing crystal field model. <i>Physical Review B</i> , 2014, 89, .	3.2	31
3	Ostwald ripening under dislocation diffusion. <i>Scripta Materialia</i> , 2002, 46, 363-367.	5.2	20
4	Diffusionless phase transition with two order parameters in spin-crossover solids. <i>Journal of Applied Physics</i> , 2014, 116, 173509.	2.5	20
5	Nonequilibrium kinetics in spin-crossover compounds. <i>Physica Status Solidi (B): Basic Research</i> , 2004, 241, 370-376.	1.5	19
6	Surface and Size Effects in Spin-Crossover Nanocrystals. <i>Nanoscale Research Letters</i> , 2017, 12, 101.	5.7	19
7	Decay of a metastable high-spin state in spin-crossover compounds: mean first passage time analysis. <i>European Physical Journal B</i> , 2010, 78, 167-172.	1.5	17
8	Theoretical analysis of the states of spin-crossover solids under cross-correlated noises. <i>Physica B: Condensed Matter</i> , 2010, 405, 2534-2537.	2.7	17
9	High spin metastable state relaxation of spin-crossover solids driven by white noise. <i>Journal of Physics and Chemistry of Solids</i> , 2011, 72, 73-77.	4.0	17
10	Noise effects in a finite-size Ising-like model. <i>Physical Review E</i> , 2011, 84, 031126.	2.1	15
11	Stochastic kinetics of photoinduced phase transitions in spin-crossover solids. <i>Physical Review E</i> , 2013, 88, 042111.	2.1	14
12	Nonequilibrium first-order phase transition in semiconductor system driven by colored noise. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 331, 61-68.	2.6	13
13	Study of pressure influence on thermal transition in spin-crossover nanomaterials. <i>Nanoscale Research Letters</i> , 2014, 9, 2409.	5.7	13
14	Size effects in spin-crossover nanoparticles in framework of 2D and 3D Ising-like breathing crystal field model. <i>Applied Surface Science</i> , 2015, 352, 60-65.	6.1	12
15	Stochastic resonance in bistable spin-crossover compounds with light-induced transitions. <i>Physical Review E</i> , 2014, 90, 052135.	2.1	11
16	BEHAVIOR OF ASYMMETRIC BISTABLE SYSTEM UNDER INFLUENCE OF CROSS-CORRELATED NOISES. <i>Modern Physics Letters B</i> , 2006, 20, 1233-1239.	1.9	10
17	Kinetics of Nonequilibrium Transition in Spin-Crossover Compounds. <i>Springer Proceedings in Physics</i> , 2015, , 375-401.	0.2	9
18	Optically induced switching in spin-crossover compounds: microscopic and macroscopic models and their relationship. <i>Applied Optics</i> , 2012, 51, C55.	1.8	8

#	ARTICLE	IF	CITATIONS
19	Spin-Crossover Nanocrystals and Ising Model. Springer Proceedings in Physics, 2015, , 165-192.	0.2	8
20	Spin-Crossover Molecular Solids Beyond Rigid Crystal Approximation. Nanoscale Research Letters, 2016, 11, 196.	5.7	7
21	1D spin-crossover molecular chain with degenerate states. Journal of Applied Physics, 2021, 129, .	2.5	7
22	Dislocation mechanism of quantum dot formation in heteroepitaxial structures. Physica Status Solidi (B): Basic Research, 2005, 242, 881-889.	1.5	6
23	Noise-induced collective regimes of complex system in contact with a random reservoir. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 667-672.	2.6	6
24	Stochastic resonance in photo-switchable spin-crossover solids. Physica A: Statistical Mechanics and Its Applications, 2017, 477, 34-41.	2.6	6
25	The cooperativity in 3D spin-crossover nanocrystals with ferromagnetic and antiferromagnetic surface. Applied Surface Science, 2019, 483, 779-784.	6.1	6
26	Reentrant behavior of magnetic ordered phase in spin-crossover solids with quenched disordered ligand field. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126677.	2.1	6
27	Kinetics of the photoinduced phase transition at the surface of a semiconductor with renormalized bandgap. Journal of Physics Condensed Matter, 2001, 13, 2947-2953.	1.8	5
28	Noise-induced coupling and phase transition in initially homogeneous bistable system. Physica A: Statistical Mechanics and Its Applications, 2007, 386, 47-53.	2.6	5
29	Surface-environment effects in spin crossover solids. Applied Surface Science, 2017, 407, 93-98.	6.1	5
30	Bond-random model of spin-crossover compounds: similarities and differences from spin glasses. Applied Nanoscience (Switzerland), 2022, 12, 747-753.	3.1	3
31	Pressure effect on hysteresis in spin-crossover solid materials. Physica B: Condensed Matter, 2016, 486, 40-43.	2.7	2
32	Effect of compression in molecular spin-crossover chains. Low Temperature Physics, 2021, 47, 457-465.	0.6	2
33	Kinetics of optical thermal breakdown of a thin semiconducting film. Physics of the Solid State, 2001, 43, 1214-1219.	0.6	1
34	Light-induced hysteresis in spin crossover compounds under noise. Proceedings of SPIE, 2013, , .	0.8	1
35	Ergodicity breaking induced by external coupled spatial-time noise processes. European Physical Journal B, 2014, 87, 1.	1.5	1
36	Hysteretic behavior of spin-crossover noise driven system. Physica B: Condensed Matter, 2016, 486, 44-47.	2.7	1

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37	Exciton Mechanism of Exchange Interaction in Semiconductors with Magnetic Impurities. Physica Status Solidi (B): Basic Research, 1985, 130, K131.	1.5	0
38	Region of phase transition in optical bistable systems. , 1998, 3573, 78.		0
39	<title>Nonequilibrium photo-induced dynamics of spin crossover compounds</title>. , 2004, 5477, 191.		0
40	<title>Noise mechanism of reentrant transition in exciton optical bistable system</title>. , 2006, , .		0
41	Theoretical analysis of photoinduced first order phase transition in spin-crossover complexes under noise action. , 2011, , .		0
42	Light-induced transition in spin-crossover compounds with correlated stochastic processes. Proceedings of SPIE, 2015, , .	0.8	0
43	Phenomenological Models of Photoinduced Transition in Spin-Crossover Materials. Springer Proceedings in Physics, 2016, , 49-66.	0.2	0
44	Modeling Problems of Spin Crossover Nanocrystals. Springer Proceedings in Physics, 2017, , 63-77.	0.2	0
45	Reprint of "Surface-environment effects in spin crossover solids". Applied Surface Science, 2017, 424, 258-263.	6.1	0
46	Cooperative Phenomena in Spin-Crossover Molecular Crystals. Springer Proceedings in Physics, 2018, , 427-441.	0.2	0
47	Temperature induced transition in one-dimensional molecular magnets. , 2020, , .		0