

# Iurii Gudyma

## List of Publications by Year in descending order

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47  
papers

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citations

687363

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47  
docs citations

47  
times ranked

218  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bond-random model of spin-crossover compounds: similarities and differences from spin glasses. Applied Nanoscience (Switzerland), 2022, 12, 747-753.	3.1	3
2	1D spin-crossover molecular chain with degenerate states. Journal of Applied Physics, 2021, 129, .	2.5	7
3	Effect of compression in molecular spin-crossover chains. Low Temperature Physics, 2021, 47, 457-465.	0.6	2
4	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
5	Temperature induced transition in one-dimensional molecular magnets. , 2020, , .		0
6	The cooperativity in 3D spin-crossover nanocrystals with ferromagnetic and antiferromagnetic surface. Applied Surface Science, 2019, 483, 779-784.	6.1	6
7	Cooperative Phenomena in Spin-Crossover Molecular Crystals. Springer Proceedings in Physics, 2018, , 427-441.	0.2	0
8	Surface and Size Effects in Spin-Crossover Nanocrystals. Nanoscale Research Letters, 2017, 12, 101.	5.7	19
9	Surface-environment effects in spin crossover solids. Applied Surface Science, 2017, 407, 93-98.	6.1	5
10	Stochastic resonance in photo-switchable spin-crossover solids. Physica A: Statistical Mechanics and Its Applications, 2017, 477, 34-41.	2.6	6
11	Modeling Problems of Spin Crossover Nanocrystals. Springer Proceedings in Physics, 2017, , 63-77.	0.2	0
12	Reprint of "Surface-environment effects in spin crossover solids". Applied Surface Science, 2017, 424, 258-263.	6.1	0
13	Phenomenological Models of Photoinduced Transition in Spin-Crossover Materials. Springer Proceedings in Physics, 2016, , 49-66.	0.2	0
14	Spin-Crossover Molecular Solids Beyond Rigid Crystal Approximation. Nanoscale Research Letters, 2016, 11, 196.	5.7	7
15	Pressure effect on hysteresis in spin-crossover solid materials. Physica B: Condensed Matter, 2016, 486, 40-43.	2.7	2
16	Hysteretic behavior of spin-crossover noise driven system. Physica B: Condensed Matter, 2016, 486, 44-47.	2.7	1
17	Size effects in spin-crossover nanoparticles in framework of 2D and 3D Ising-like breathing crystal field model. Applied Surface Science, 2015, 352, 60-65.	6.1	12
18	Light-induced transition in spin-crossover compounds with correlated stochastic processes. Proceedings of SPIE, 2015, , .	0.8	0

#	ARTICLE	IF	CITATIONS
19	Kinetics of Nonequilibrium Transition in Spin-Crossover Compounds. Springer Proceedings in Physics, 2015, , 375-401.	0.2	9
20	Spin-Crossover Nanocrystals and Ising Model. Springer Proceedings in Physics, 2015, , 165-192.	0.2	8
21	Diffusionless phase transition with two order parameters in spin-crossover solids. Journal of Applied Physics, 2014, 116, 173509.	2.5	20
22	Stochastic resonance in bistable spin-crossover compounds with light-induced transitions. Physical Review E, 2014, 90, 052135.	2.1	11
23	Ergodicity breaking induced by external coupled spatial-time noise processes. European Physical Journal B, 2014, 87, 1.	1.5	1
24	Phase transition in spin-crossover compounds in the breathing crystal field model. Physical Review B, 2014, 89, .	3.2	31
25	Study of pressure influence on thermal transition in spin-crossover nanomaterials. Nanoscale Research Letters, 2014, 9, 2409.	5.7	13
26	Light-induced hysteresis in spin crossover compounds under noise. Proceedings of SPIE, 2013, , .	0.8	1
27	Stochastic kinetics of photoinduced phase transitions in spin-crossover solids. Physical Review E, 2013, 88, 042111.	2.1	14
28	Optically induced switching in spin-crossover compounds: microscopic and macroscopic models and their relationship. Applied Optics, 2012, 51, C55.	1.8	8
29	Noise effects in a finite-size Ising-like model. Physical Review E, 2011, 84, 031126.	2.1	15
30	High spin metastable state relaxation of spin-crossover solids driven by white noise. Journal of Physics and Chemistry of Solids, 2011, 72, 73-77.	4.0	17
31	Theoretical analysis of photoinduced first order phase transition in spin-crossover complexes under noise action. , 2011, , .		0
32	Decay of a metastable high-spin state in spin-crossover compounds: mean first passage time analysis. European Physical Journal B, 2010, 78, 167-172.	1.5	17
33	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
34	Theoretical analysis of the states of spin-crossover solids under cross-correlated noises. Physica B: Condensed Matter, 2010, 405, 2534-2537.	2.7	17
35	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
36	BEHAVIOR OF ASYMMETRIC BISTABLE SYSTEM UNDER INFLUENCE OF CROSS-CORRELATED NOISES. Modern Physics Letters B, 2006, 20, 1233-1239.	1.9	10

#	ARTICLE	IF	CITATIONS
37	<title>Noise mechanism of reentrant transition in exciton optical bistable system</title>. , 2006, , .		0
38	Dislocation mechanism of quantum dot formation in heteroepitaxial structures. Physica Status Solidi (B): Basic Research, 2005, 242, 881-889.	1.5	6
39	Nonequilibrium kinetics in spin-crossover compounds. Physica Status Solidi (B): Basic Research, 2004, 241, 370-376.	1.5	19
40	Nonequilibrium first-order phase transition in semiconductor system driven by colored noise. Physica A: Statistical Mechanics and Its Applications, 2004, 331, 61-68.	2.6	13
41	<title>Nonequilibrium photo-induced dynamics of spin crossover compounds</title>. , 2004, 5477, 191.		0
42	Ostwald ripening under dislocation diffusion. Scripta Materialia, 2002, 46, 363-367.	5.2	20
43	Kinetics of optical thermal breakdown of a thin semiconducting film. Physics of the Solid State, 2001, 43, 1214-1219.	0.6	1
44	Ostwald ripening of quantum-dot nanostructures. Semiconductors, 2001, 35, 1378-1382.	0.5	39
45	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
46	Region of phase transition in optical bistable systems. , 1998, 3573, 78.		0
47	Exciton Mechanism of Exchange Interaction in Semiconductors with Magnetic Impurities. Physica Status Solidi (B): Basic Research, 1985, 130, K131.	1.5	0