

Gleb Kakazei

List of Publications by Year in descending order

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papers

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218677

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citing authors

#	ARTICLE	IF	CITATIONS
1	Interacting ferromagnetic nanoparticles in discontinuous Co ₈₀ Fe ₂₀ /Al ₂ O ₃ multilayers: From superspin glass to reentrant superferromagnetism. Physical Review B, 2001, 63, .	3.2	187
2	Advances in Magnetism Roadmap on Spin-Wave Computing. IEEE Transactions on Magnetism, 2022, 58, 1-72.	2.1	179
3	Thermal structural transitions, magnetization and large piezoelectric response in Bi _{1-x} Fe _x FeO ₃ multiferroics. Applied Physics Letters, 2010, 96, 102401.	3.2	135
4	Spin-wave spectra of perpendicularly magnetized circular submicron dot arrays. Applied Physics Letters, 2004, 85, 443-445.	3.3	130
5	Magnetic and structural properties of spin-reorientation transitions in orthoferrites. Journal of Applied Physics, 2007, 101, 123919.	2.5	93
6	Rhombohedral-to-orthorhombic transition and multiferroic properties of Dy-substituted BiFeO ₃ . Journal of Applied Physics, 2010, 108, .	2.5	86
7	Tunnel magnetoresistance and magnetic ordering in ion-beam sputtered Co ₈₀ Fe ₂₀ /Al ₂ O ₃ discontinuous multilayers. Journal of Applied Physics, 2001, 90, 4044-4048.	2.5	78
8	Interfacial Structure Dependent Spin Mixing Conductance in Cobalt Thin Films. Physical Review Letters, 2015, 115, 056601.	7.8	78
9	Spin waves in circular soft magnetic dots at the crossover between vortex and single domain state. Physical Review B, 2009, 79, .	3.2	76
10	Ferromagnetic resonance in granular thin films. Journal of Applied Physics, 1999, 85, 5654-5656.	2.5	72
11	Spin-reorientation in ErFeO ₃ : Zero-field transitions, three-dimensional phase diagram, and anisotropy of erbium magnetism. Physical Review B, 2004, 69, .	3.2	72
12	Higher order vortex gyrotropic modes in circular ferromagnetic nanodots. Scientific Reports, 2014, 4, 4796.	3.3	51
13	Spin excitation frequencies in magnetostatically coupled arrays of vortex state circular Permalloy dots. Applied Physics Letters, 2010, 97, 132501.	3.3	50
14	Origin of fourfold anisotropy in square lattices of circular ferromagnetic dots. Physical Review B, 2006, 74, .	3.2	48
15	In-plane and out-of-plane uniaxial anisotropies in rectangular arrays of circular dots studied by ferromagnetic resonance. Journal of Applied Physics, 2003, 93, 8418-8420.	2.5	46
16	Spin-Wave Phase Inverter upon a Single Nanodefekt. ACS Applied Materials & Interfaces, 2019, 11, 17654-17662.	8.0	46
17	The role of erbium magnetization anisotropy during the magnetic reorientation transition in ErFeO ₃ . Journal of Applied Physics, 2004, 95, 6622-6624.	2.5	42
18	Ferromagnetic resonance force microscopy studies of arrays of micron size permalloy dots. Physical Review B, 2006, 74, .	3.2	39

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19	Measurements of spin reorientation in YbFeO ₃ and comparison with modified mean-field theory. <i>Physical Review B</i> , 2005, 72, .	3.2	36
20	Giant moving vortex mass in thick magnetic nanodots. <i>Scientific Reports</i> , 2015, 5, 13881.	3.3	34
21	Reflection-less width-modulated magnonic crystal. <i>Communications Physics</i> , 2020, 3, .	5.3	32
22	Transport properties of discontinuous Co/sub 80/Fe/sub 20//Al/sub 2/O/sub 3/ multilayers, prepared by ion beam sputtering. <i>IEEE Transactions on Magnetics</i> , 1999, 35, 2895-2897.	2.1	30
23	Structural and magnetic study of heterogeneous Co _x Ag _{1-x} films by resonance and magnetometric techniques. <i>Physical Review B</i> , 1999, 60, 12200-12206.	3.2	29
24	Precise probing spin wave mode frequencies in the vortex state of circular magnetic dots. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	29
25	The role of dipolar interactions in magnetic nanoparticles: Ferromagnetic resonance in discontinuous magnetic multilayers. <i>Journal of Applied Physics</i> , 2007, 101, 103907.	2.5	27
26	Magnonic crystals composed of Ni ₈₀ Fe ₂₀ film on top of Ni ₈₀ Fe ₂₀ two-dimensional dot array. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	26
27	Ni ₈₀ Fe ₂₀ film with periodically modulated thickness as a reconfigurable one-dimensional magnonic crystal. <i>Applied Physics Letters</i> , 2014, 104, 042403.	3.3	26
28	Resistive switching in nanostructured thin films. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	25
29	Effect of Gd substitution on ferroelectric and magnetic properties of Bi ₄ Ti ₃ O ₁₂ . <i>Materials Letters</i> , 2010, 64, 1066-1068.	2.6	25
30	Spin-wave excitation modes in thick vortex-state circular ferromagnetic nanodots. <i>Physical Review B</i> , 2016, 93, .	3.2	25
31	Spin-wave eigenmodes in direct-write 3D nanovolcanoes. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	25
32	Overcoming the Limits of Vortex Formation in Magnetic Nanodots by Coupling to Antidot Matrix. <i>Physical Review Applied</i> , 2018, 10, .	3.8	24
33	Spin-wave spectroscopy of individual ferromagnetic nanodisks. <i>Nanoscale</i> , 2020, 12, 21207-21217.	5.6	24
34	Influence of co-evaporation technique on the structural and magnetic properties of CoCu granular films. <i>Journal of Magnetism and Magnetic Materials</i> , 1999, 196-197, 29-30.	2.3	23
35	Mechanisms of magnetic and temperature hysteresis in ErFeO ₃ and TmFeO ₃ single crystals. <i>Journal of Applied Physics</i> , 2010, 108, .	2.5	23
36	Peculiar magnetic and electrical properties near structural percolation in metal-insulator granular layers. <i>Journal of Applied Physics</i> , 2004, 96, 3861-3864.	2.5	19

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37	Antiferromagnetic coupling between martensitic twin variants observed by magnetic resonance in Ni-Mn-Sn-Co films. <i>Physical Review B</i> , 2017, 95, .	3.2	19
38	Negative Magnetoresistance in Nanotwinned NiMnGa Epitaxial Films. <i>Scientific Reports</i> , 2018, 8, 15730.	3.3	19
39	Magnetic skyrmion size and stability in ultrathin nanodots accounting Dzyaloshinskii-Moriya exchange interaction. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 465, 471-479.	2.3	19
40	Natural behavior of the magnetization under spontaneous reorientation: TmFeO ₃ , ErFeO ₃ . <i>Low Temperature Physics</i> , 2005, 31, 277-282.	0.6	18
41	Probing dynamical magnetization pinning in circular dots as a function of the external magnetic field orientation. <i>Physical Review B</i> , 2012, 86, .	3.2	18
42	Intensity inversion of vortex gyrotropic modes in thick ferromagnetic nanodots. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	18
43	Dynamic exchange via spin currents in acoustic and optical modes of ferromagnetic resonance in spin-valve structures. <i>Physical Review B</i> , 2014, 89, .	3.2	18
44	Magnetization anomalies in melt-spun Ni-Mn-Ga ribbons. <i>Journal of Magnetism and Magnetic Materials</i> , 2008, 320, 1063-1067.	2.3	17
45	Tunable magnetic anisotropy in permalloy thin films grown on holographic relief gratings. <i>Applied Physics Letters</i> , 2014, 104, 082408.	3.3	17
46	Large four-fold magnetic anisotropy in two-dimensional modulated Ni ₈₀ Fe ₂₀ films. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	17
47	Interlayer dipolar interactions in multilayered granular films. <i>Journal of Applied Physics</i> , 2005, 97, 10A723.	2.5	15
48	Magnetic Hysteresis in ErFeO ₃ Near the Low Temperature Erbium Ordering Transition. <i>IEEE Transactions on Magnetics</i> , 2008, 44, 2933-2935.	2.1	15
49	Single-domain-wall states in millimeter-scale samples of ErFeO_3 . <i>Physical Review B</i> , 2009, 79, .	3.2	15
50	Microwave absorption properties of permalloy nanodots in the vortex and quasi-uniform magnetization states. <i>New Journal of Physics</i> , 2014, 16, 063044.	2.9	15
51	Spin-wave propagation through a magnonic crystal in a thermal gradient. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 344002.	2.8	15
52	Route to form skyrmions in soft magnetic films. <i>APL Materials</i> , 2019, 7, .	5.1	15
53	GMR in co-evaporated Co-Ag granular thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 1999, 196-197, 40-42.	2.3	14
54	Superspin Glass Behavior of Interacting Ferromagnetic Nanoparticles in Discontinuous Magnetic Multilayers. <i>Phase Transitions</i> , 2002, 75, 73-79.	1.3	14

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55	Low-field magnetization study of CoFe/Al ₂ O ₃ multilayers. Journal of Magnetism and Magnetic Materials, 2003, 266, 57-61.	2.3	14
56	Evidences for direct magnetic patterning via diffusive transformations using femtosecond laser interferometry. Applied Physics Letters, 2012, 101, 132408.	3.3	14
57	Slow magnetization dynamics and energy barriers near vortex state nucleation in circular permalloy dots. Applied Physics Letters, 2011, 99, .	3.3	13
58	Probing the Quality of Ni Filled Nanoporous Alumina Templates by Magnetic Techniques. Journal of Nanoscience and Nanotechnology, 2012, 12, 7486-7490.	0.9	13
59	Engineered magnetization and exchange stiffness in direct-write Co/Fe nanoelements. Applied Physics Letters, 2021, 118, .	3.3	13
60	Ferromagnetic resonance experiments in an obliquely deposited FeCo/Al ₂ O ₃ film system. Journal of Applied Physics, 2003, 94, 6631-6638.	2.5	12
61	Evidence of surface anisotropy in magnetic nanoparticles. Journal of Magnetism and Magnetic Materials, 2006, 300, e331-e334.	2.3	12
62	Fabrication and magnetic properties of nanostructured amorphous Nd/Co films with lateral modulation of magnetic stripe period. Journal Physics D: Applied Physics, 2013, 46, 345001. Spin-Wave Relaxation by Eddy Currents in Co/Pt Bilayers and a Way to Suppress It. Physical Review Applied, 2020, 14, .	2.8	12
63	$Y_{3-x}Fe_xO_{12}/Pt$	3.8	12
64	Magnetic states of discontinuous Co ₈₀ Fe ₂₀ /Al ₂ O ₃ multilayers. Journal of Magnetism and Magnetic Materials, 2002, 240, 433-435.	2.3	11
65	The magnetoacoustic anomaly in Fe ₃ BO ₆ . Journal of Magnetism and Magnetic Materials, 2004, 272-276, 2113-2114.	2.3	11
66	Orientation phase transition in Fe ₃ BO ₆ : Experimental determination of the order of the transition. Physical Review B, 2006, 74, .	3.2	11
67	Structure and magnetic properties of highly dispersed Ni-Mn-Ga powders prepared by spark-erosion. Journal of Applied Physics, 2012, 112, .	2.5	11
68	Spin wave modes in out-of-plane magnetized nanorings. Physical Review B, 2017, 96, .	3.2	11
69	Helicity of magnetic vortices and skyrmions in soft ferromagnetic nanodots and films biased by stray radial fields. Physical Review B, 2020, 101, .	3.2	11
70	Probing Arrays of Circular Magnetic Microdots by Ferromagnetic Resonance. Journal of Nanoscience and Nanotechnology, 2008, 8, 2811-2826.	0.9	11
71	Epitaxial Growths and Magnetization Dynamics of Ni ₂ MnSn Heusler Alloy Films. Acta Physica Polonica A, 2012, 121, 1121-1123.	0.5	11
72	Mechano-thermal Effects on the Defect Structure in ZnO Powders Subjected to Hydrostatic Pressure. Crystal Research and Technology, 2001, 36, 429-439.	1.3	10

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73	Ferromagnetic Resonance and Hall Effect Characterization of GaMnSb Layers. Journal of Superconductivity and Novel Magnetism, 2007, 20, 399-403.	1.8	10
74	Tunneling magnetoresistance in epitaxial discontinuous Fe/MgO multilayers. Applied Physics Letters, 2011, 98, 122502.	3.3	10
75	Terahertz dynamics of spins and charges in CoFe/Al ₂ O ₃ multilayers. Physical Review B, 2015, 91, .	3.2	10
76	Splitting of standing spin-wave modes in circular submicron ferromagnetic dot under axial symmetry violation. Scientific Reports, 2016, 5, 18480.	3.3	10
77	Ferromagnetic proximity effect in a Role of magnetic disorder and interface transparency. Physical Review B, 2010, 82, .	3.2	9
78	Ferromagnetic resonance micromagnetic studies in patterned permalloy thin films and stripes. Journal of Applied Physics, 2014, 116, 093908.	2.5	9
79	Magnetic states of granular layered CoFe-Al ₂ O ₃ system. IEEE Transactions on Magnetics, 2001, 37, 2200-2203.	2.1	8
80	Broadband Magnetic Response of Periodic Arrays of FeNi Dots. IEEE Transactions on Magnetics, 2008, 44, 3063-3066.	2.1	8
81	Study of magnetoelastic and magnetocrystalline anisotropies in CoNi ¹⁰⁰ nanowire arrays. Journal of Magnetism and Magnetic Materials, 2015, 374, 663-668.	2.3	8
82	Magnetic properties of permalloy antidot array fabricated by interference lithography. AIP Advances, 2019, 9, .	1.3	8
83	Dynamical behaviour of ultrathin [CoFeB (tCoFeB)/Pd] films with perpendicular magnetic anisotropy. Scientific Reports, 2021, 11, 43.	3.3	8
84	Influence of conduction electrons and dipolar interactions on the susceptibility of granular materials. Journal of Magnetism and Magnetic Materials, 1999, 196-197, 112-114.	2.3	7
85	Time-dependent transport effects in CoFe/Al ₂ O ₃ discontinuous multilayers. Journal of Applied Physics, 2000, 87, 6328-6330.	2.5	7
86	Structural imperfection, phase transitions, and the properties of magnetoresistive ceramic and films of La _{0.66} Mn _{1.23} V _{0.11} (c)O _{2.842} ~V _{0.16} (a). Low Temperature Physics, 2004, 30, 299-304.	0.6	7
87	Collective dynamics and ferromagnetic order in random planar arrays of magnetic granules. Journal of Applied Physics, 2008, 103, 07B723.	2.5	7
88	Magnetic field strength and orientation effects on Co-Fe discontinuous multilayers close to percolation. Physical Review B, 2010, 82, .	3.2	7
89	Evolution of the Magnetic Properties of Co ₁₀ Cu ₉₀ Nanoparticles Prepared by Wet Chemistry with Thermal Annealing. Journal of Nanoscience and Nanotechnology, 2012, 12, 7529-7534.	0.9	7
90	Engineering spin wave spectra in thick Ni rings by using competition between exchange and dipolar fields. Physical Review B, 2021, 104, .	3.0	7

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91	AC susceptibility studies of discontinuous Co ₈₀ Fe ₂₀ /Al ₂ O ₃ multilayers. Journal of Magnetism and Magnetic Materials, 2001, 226-230, 1825-1827.	2.3	6
92	Current-in-plane transport in granular single layers and multilayers of CoFe in Al ₂ O ₃ . Journal of Magnetism and Magnetic Materials, 2003, 266, 62-67.	2.3	6
93	Ferromagnetic resonance of ultrathin Co [*] Ag superlattices on Si(111). Journal of Applied Physics, 2008, 103, 07B527.	2.5	6
94	NiFe/CoFe/Cu/CoFe/MnIr spin valves studied by ferromagnetic resonance. Journal of Applied Physics, 2013, 113, 17D713.	2.5	6
95	The study of the perpendicular anisotropy in the nanocrystalline Ni and Co films. Journal of Magnetism and Magnetic Materials, 1996, 155, 57-59.	2.3	5
96	Magnetic and transport properties of diluted granular multilayers. Journal of Applied Physics, 2009, 106, 113910.	2.5	5
97	Standing spin waves in perpendicularly magnetized circular dots at millimeter waves. Journal of Applied Physics, 2013, 113, 17B521.	2.5	5
98	Control of Structural and Magnetic Properties of Polycrystalline Co ₂ FeGe Films via Deposition and Annealing Temperatures. Nanomaterials, 2021, 11, 1229.	4.1	5
99	FMR in CoFe/Al ₂ O ₃ multilayers: from continuous to discontinuous regime. Journal of Magnetism and Magnetic Materials, 2001, 226-230, 1828-1830.	2.3	4
100	Local structure in CoFe/Al ₂ O ₃ multilayers determined by nuclear magnetic resonance. Journal of Magnetism and Magnetic Materials, 2002, 242-245, 943-945.	2.3	4
101	Magnetic structure in FeCo [*] Al ₂ O ₃ granular films studied by the ferromagnetic resonance. Physica Status Solidi A, 2003, 196, 157-160.	1.7	4
102	Probing the morphology of epitaxial Fe/MgO discontinuous multilayers by magnetometric technique. Journal of Magnetism and Magnetic Materials, 2019, 474, 369-373.	2.3	4
103	Simulation of Chemical Order [*] Disorder Transitions Induced Thermally at the Nanoscale for Magnetic Recording and Data Storage. ACS Applied Nano Materials, 2020, 3, 7668-7677.	5.0	4
104	Design of electromagnetic shielding textiles based on industrial [*] grade multiwalled carbon nanotubes and graphene nanoplatelets by dip [*] pad [*] dry process. Physica Status Solidi (A) Applications and Materials Science, 0, , .	1.8	4
105	Magnetization processes in rectangular versus rhombic planar superlattices of magnetic bars. Physical Review B, 2011, 84, .	3.2	3
106	Magnetic Behavior of High Density Arrays of Co Bars with Strong Magnetostatic Coupling. Journal of Nanoscience and Nanotechnology, 2012, 12, 7510-7515.	0.9	3
107	Ferromagnetic Resonance in Films with Uniaxial Oblique Anisotropy. , 1998, , 211-216.		3
108	Peculiar CIP transport in CoFe/Al ₂ O ₃ granular layered films across a micro-gap. Journal of Magnetism and Magnetic Materials, 2002, 242-245, 485-488.	2.3	2

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109	Low Temperature Deposition of Ferromagnetic Ni-Mn-Ga Thin Films From Two Different Targets via rf Magnetron Sputtering. Materials Research Society Symposia Proceedings, 2010, 1250, 1.	0.1	2
110	Resonant and non-resonant microwave absorption as a probe of the magnetic dynamics and switching in spin valves. Journal of Applied Physics, 2013, 114, 023906.	2.5	2
111	Influence of the Electrodeposition Cathodic Potential on the Composition and Magnetic Properties of CoNi Nanowires. Solid State Phenomena, 0, 214, 32-39.	0.3	2
112	Laser-induced diffusion decomposition in Fe ϵ -V thin-film alloys. Applied Surface Science, 2015, 336, 380-384.	6.1	2
113	Electrical switching of magnetization in a layer of $\hat{1}\pm$ -Fe with a naturally hydroxidized surface. Journal of Materials Chemistry C, 2016, 4, 7751-7755.	5.5	2
114	Anisotropic Magnetic Resonance in Random Nanocrystal Quantum Dot Ensembles. ACS Omega, 2020, 5, 11333-11341.	3.5	2
115	Thickness dependences of structural and magnetic properties of Ni(Co)MnSn/MgO(001) thin films. Journal of Alloys and Compounds, 2021, 862, 158474.	5.5	2
116	Merging of spin-wave modes in obliquely magnetized circular nanodots. Physical Review B, 2022, 105, .	3.2	2
117	Low Temperature FMR in the System of Non-Interacting Magnetic Nanodisks. Solid State Phenomena, 2012, 190, 593-596.	0.3	1
118	Magnetic Properties of Epitaxial Discontinuous Fe/MgO Multilayers. Journal of Nanoscience and Nanotechnology, 2012, 12, 7505-7509.	0.9	1
119	Dynamical behavior of ferromagnetic nanowire arrays: From 1-D to 3-D. , 2020, , 559-611.		1
120	Double magnetic reorientation transition in thin garnet films. Physical Review Research, 2020, 2, .	3.6	1
121	Probing arrays of circular magnetic microdots by ferromagnetic resonance. Journal of Nanoscience and Nanotechnology, 2008, 8, 2811-26.	0.9	1
122	Nanogranular Layered Magnetic Films. , 2006, , 1158-1192.		0
123	Common Aspects of the Magnetization Behavior of the $\hat{1}^4 \hat{a}^1 \hat{1}^{24} \hat{a}^1 \hat{1}^2$ Phase Transitions in Orthoferrites. AIP Conference Proceedings, 2006, , .	0.4	0
124	Magnetic properties of amorphous Co _{0.74} Si _{0.26} \hat{a} \hat{a} \hat{a} Si multilayers with different numbers of periods. Low Temperature Physics, 2010, 36, 821-825.	0.6	0
125	Influence of the electrodeposition cathodic potential on the composition and magnetic properties of CoNi nanowires. , 2013, , .		0
126	Static and dynamic behaviors of 1-D and 2-D magnonic crystals. , 2014, , .		0

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127	Terahertz Response and Ultrafast Laser-Induced Dynamics of Spins and Charges in CoFe/Al ₂ O ₃ Multilayers. Springer Proceedings in Physics, 2015, , 261-263.	0.2	0
128	Tuning four-fold magnetic anisotropy in two-dimensional modulated Ni ₈₀ Fe ₂₀ films. , 2015, , .		0
129	Non-uniform along thickness spin excitations in magnetic vortex-state nanodots. Low Temperature Physics, 2020, 46, 863-868.	0.6	0
130	Correction to Simulation of Chemical Order-Disorder Transitions Induced Thermally at the Nanoscale for Magnetic Recording and Data Storage. ACS Applied Nano Materials, 2020, 3, 12433-12433.	5.0	0
131	Scalable Flexible Electromagnetic Interference Shielding Textiles Based on MWCNTs and PEDOT:PSS. Solid State Phenomena, 0, 333, 161-169.	0.3	0