

Mihai Gabor

List of Publications by Year in descending order

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88
papers

1,601
citations

304368

22
h-index

344852

36
g-index

88
all docs

88
docs citations

88
times ranked

2059
citing authors

#	ARTICLE	IF	CITATIONS
1	Co FeAl thin films grown on MgO substrates: Correlation between static, dynamic, and structural properties. Physical Review B, 2013, 87, .	1.1	116
2	Magnetic and structural anisotropies of Co FeAl Heusler alloy epitaxial thin films. Physical Review B, 2011, 84, .	1.1	100
3	Experimental study of spin-wave dispersion in Py/Pt film structures in the presence of an interface Dzyaloshinskii-Moriya interaction. Physical Review B, 2015, 91, .	1.1	98
4	Co 2FeAl Heusler thin films grown on Si and MgO substrates: Annealing temperature effect. Journal of Applied Physics, 2014, 115, .	1.1	71
5	Synthesis, structural and morphological characteristics, magnetic and optical properties of Co doped ZnO nanoparticles. Ceramics International, 2014, 40, 2835-2846.	2.3	70
6	Brillouin light scattering investigation of the thickness dependence of Dzyaloshinskii-Moriya interaction in $\text{Co}_x\text{Fe}_{3-x}\text{O}_4/\text{SiO}_2$ system. Journal of Magnetism and Magnetic Materials, 2016, 410, 47-54.	1.1	50
7	Magnetic properties evolution of the $\text{Co}_x\text{Fe}_{3-x}\text{O}_4/\text{SiO}_2$ system due to advanced thermal treatment at 700°C and 1000°C . Journal of Magnetism and Magnetic Materials, 2016, 410, 47-54.	1.0	46
8	Bending strain-tunable magnetic anisotropy in Co 2FeAl Heusler thin film on Kapton \AA . Applied Physics Letters, 2014, 105, 062409.	1.5	41
9	Correlations between structural, electronic transport, and magnetic properties of $\text{Co}_x\text{Fe}_{3-x}\text{O}_4/\text{SiO}_2$ alloy epitaxial thin films. Physical Review B, 2015, 92, .	1.1	40
10	Perpendicular magnetic anisotropy in Ta/Co 2FeAl /MgO multilayers. Journal of Applied Physics, 2013, 114, 063905.	1.1	40
11	Electrical properties of ceria/carbonate nanocomposites. Journal of Alloys and Compounds, 2012, 532, 109-113.	2.8	37
12	Synthesis and characterization of undoped, Al and/or Ho doped ZnO thin Films. Ceramics International, 2013, 39, 5535-5543.	2.3	33
13	Synthesis, characterization and thermal decomposition study of zinc propionate as a precursor for ZnO nano-powders and thin films. Journal of Analytical and Applied Pyrolysis, 2013, 104, 653-659.	2.6	29
14	Spin \AA orbit torques and magnetization switching in W/Co 2FeAl /MgO structures. Journal Physics D: Applied Physics, 2016, 49, 365003.	1.3	29
15	Perpendicular magnetic anisotropy in Pt/Co-based full Heusler alloy/MgO thin-film structures. Physical Review B, 2019, 100, .	1.1	29
16	Static and dynamic magnetic properties of epitaxial Co 2FeAl Heusler alloy thin films. Journal of Applied Physics, 2011, 109, .	1.1	28
17	Synthesis, crystal structure and thermal decomposition of a new copper propionate $[\text{Cu}(\text{CH}_3\text{CH}_2\text{COO})_2]\cdot 2\text{H}_2\text{O}$. Journal of Analytical and Applied Pyrolysis, 2011, 92, 439-444.	2.6	27
18	Current-Induced Nucleation and Dynamics of Skyrmions in a Co -based Heusler Alloy. Physical Review Applied, 2019, 11, .	1.5	26

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19	Synthesis, crystal structure and thermal decomposition of $[\text{La}_2(\text{CH}_3\text{CH}_2\text{COO})_6 \cdot (\text{H}_2\text{O})_3] \cdot 3.5\text{H}_2\text{O}$ precursor for high-k La_2O_3 thin films deposition. <i>Materials Research Bulletin</i> , 2010, 45, 1203-1208.	2.7	25
20	Highly c-axis oriented ZnO thin film using 1-propanol as solvent in sol-gel synthesis. <i>Materials Letters</i> , 2013, 92, 267-270.	1.3	25
21	Influence of the capping layer material on the interfacial Dzyaloshinskii-Moriya interaction in Pt/Co/capping layer structures probed by Brillouin light scattering. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 125002.	1.3	25
22	Synthesis, crystal structure and thermal decomposition of $\text{Zr}_6\text{O}_4(\text{OH})_4(\text{CH}_3\text{CH}_2\text{COO})_{12}$. <i>Journal of Analytical and Applied Pyrolysis</i> , 2012, 97, 137-142.	2.6	23
23	Interlayer exchange coupling in perpendicularly magnetized Pt/Co/Ir/Co/Pt structures. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 465004.	1.3	22
24	Thickness Dependence of the Dzyaloshinskii-Moriya Interaction in Co/Pt Ultrathin Films: Effects of Annealing Temperature and Heavy-Metal Material. <i>Physical Review Applied</i> , 2018, 9, .	1.1	22
25	Oxygen incorporation effects in annealed epitaxial $\text{La}(1-x)\text{Sr}_x\text{MnO}_3$ thin films. <i>Journal of Applied Physics</i> , 2011, 109, 123913.	1.1	21
26	Fluorine-free propionate route for the chemical solution deposition of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ superconducting films. <i>Ceramics International</i> , 2015, 41, 4416-4421.	2.3	21
27	Magnetic and structural properties of Co_2FeAl thin films grown on Si substrate. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 373, 140-143.	1.0	21
28	Ferromagnetic-resonance-induced spin pumping in $\text{Co}_{20}\text{Fe}_{60}\text{B}_{20}/\text{Pt}$ systems: damping investigation. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 045002.	1.3	21
29	Soft magnetic composites based on oriented short Fe fibres coated with polymer. <i>Journal of Alloys and Compounds</i> , 2020, 840, 155731.	2.8	21
30	Polarization-Sensitive Linear Plasmonic Nanostructures via Colloidal Lithography with Uniaxial Colloidal Arrays. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 1362-1369.	4.0	19
31	Interface Dzyaloshinskii-Moriya interaction in the interlayer antiferromagnetic-exchange coupled Pt/CoFeB/Ru/CoFeB systems. <i>Physical Review B</i> , 2017, 96, .	1.1	19
32	Spectroscopic investigation of elastic and magnetoelastic properties of CoFeB thin films. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 145003.	1.3	18
33	A comparative study of the Fe-based amorphous alloy prepared by mechanical alloying and rapid quenching. <i>Journal of Alloys and Compounds</i> , 2017, 703, 19-25.	2.8	17
34	Synthesis, crystal structure and thermal decomposition study of a new barium acetato-propionate complex. <i>Journal of Analytical and Applied Pyrolysis</i> , 2011, 92, 445-449.	2.6	16
35	Epitaxial growth of CeO_2 thin film on cube textured NiW substrate using a propionate-based metalorganic deposition (MOD) method. <i>Materials Chemistry and Physics</i> , 2012, 133, 772-778.	2.0	15
36	The Vortex Path Model Analysis of the Field Angle Dependence of the Critical Current Density in Nanocomposite $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ BaZrO_3 Films Obtained by Low Fluorine Chemical Solution Deposition. <i>Journal of Superconductivity and Novel Magnetism</i> , 2014, 27, 2493-2500.	0.8	15

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37	Ferromagnetic resonance in thin films submitted to multiaxial stress state: application of the uniaxial equivalent stress concept and experimental validation. Journal Physics D: Applied Physics, 2016, 49, 265001.	1.3	15
38	Chemically processed BaZrO ₃ nanopowders as artificial pinning centres. Journal of Physics: Conference Series, 2008, 97, 012289.	0.3	14
39	Convective assembly of two-dimensional nanosphere lithographic masks. Materials Letters, 2009, 63, 1834-1836.	1.3	14
40	Magnetic pinning effects of epitaxial La _x Sr _{1-x} MnO ₃ nanostructured thin films on YBa ₂ Cu ₃ O _{7-δ} layers. Journal of Applied Physics, 2012, 112, .	1.1	14
41	Interfacial Dzyaloshinskii-Moriya interaction sign in $\text{Ir}/\text{Co}/\text{Mn}/\text{Pt}$ systems investigated by Brillouin light scattering. Physical Review B, 2018, 97, .		
42	Synthesis of epitaxial BaZrO ₃ thin films by chemical solution deposition. Thin Solid Films, 2010, 518, 4714-4717.	0.8	12
43	Capping layer-tailored interface magnetic anisotropy in ultrathin Co ₂ FeAl films. Journal of Applied Physics, 2015, 117, 023906.	1.1	12
44	Investigation of the annealing temperature dependence of the spin pumping in Co ₂₀ Fe ₆₀ B ₂₀ /Pt systems. Journal of Applied Physics, 2018, 123, .	1.1	12
45	Epitaxial growth and characterization of La ₂ Zr ₂ O ₇ multilayers on biaxially textured NiW substrate by chemical solution deposition under highly reducing conditions. Thin Solid Films, 2013, 531, 491-498.	0.8	11
46	Annealing temperature and thickness dependencies of structural and magnetic properties of Co ₂ FeAl thin films. Physical Review B, 2016, 94, .	1.1	11
47	Structural defects analysis versus spin polarized tunneling in Co ₂ FeAl/MgO/CoFe magnetic tunnel junctions with thick MgO barriers. Journal of Magnetism and Magnetic Materials, 2013, 347, 79-85.	1.0	10
48	Perpendicular Magnetic Anisotropy in Co ₂ FeAl Thin Films: Effect of Annealing Temperature. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	9
49	Spin-orbit Torques and Magnetization Switching in Perpendicularly Magnetized Epitaxial Pd/Co ₂ FeAl/MgO Structures. Physical Review Applied, 2020, 13, .	1.5	9
50	Investigation of the correlation between perpendicular magnetic anisotropy, spin mixing conductance and interfacial Dzyaloshinskii-Moriya interaction in CoFeB-based systems. Journal Physics D: Applied Physics, 2020, 53, 505003.	1.3	9
51	Perpendicular magnetic anisotropy and interfacial Dzyaloshinskii-Moriya interaction in as grown and annealed $\text{X}/\text{Co}/\text{Y}$ ultrathin systems. Journal of Physics Condensed Matter, 2020, 32, 495802.	0.7	9
52	The Influence of the Capping Layer on the Perpendicular Magnetic Anisotropy in Permalloy Thin Films. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	8
53	Temperature dependence of the perpendicular magnetic anisotropy in Ta/Co ₂ FeAl/MgO structures probed by Anomalous Hall Effect. Journal of Magnetism and Magnetic Materials, 2015, 392, 79-82.	1.0	8
54	Effective 90-degree magnetization rotation in Co ₂ FeAl thin film/piezoelectric system probed by microstripline ferromagnetic resonance. Applied Physics Letters, 2015, 107, .	1.5	8

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55	Epitaxial La 0.7 Sr 0.3 MnO 3 nanostructures obtained by polymer-assisted surface decoration (PASD). Materials Letters, 2016, 171, 281-284.	1.3	8
56	Static and dynamic magnetic properties of Co2FeAl-based stripe arrays. Journal of Magnetism and Magnetic Materials, 2016, 399, 199-206.	1.0	8
57	Multiple Magnetoelectric Regimes in $\text{Ta/Co}_{20}\text{Fe}_{20}\text{B}_{20}\text{O}_{20}$ Multilayers. Physical Review Applied, 2021, 15, .		8
58	Magnetic and Electrical Properties of Undoped and Holmium Doped ZnO Thin Films Grown by Sol-Gel Method. Advanced Engineering Forum, 0, 8-9, 301-308.	0.3	7
59	Ordered misfit dislocations in epitaxial Gd doped CeO 2 thin films deposited on (001)YSZ single crystal substrates. Applied Surface Science, 2018, 433, 668-673.	3.1	7
60	Magnetic Anisotropy and Damping Constant in CoFeB/Ir and CoFeB/Ru Systems. IEEE Transactions on Magnetics, 2018, 54, 1-5.	1.2	7
61	Effect of Chiral Damping on the dynamics of chiral domain walls and skyrmions. Nature Communications, 2022, 13, 1192.	5.8	7
62	Optical properties correlated with morphology and structure of TEAH modified ZnO nanoparticles via precipitation method. Journal of Alloys and Compounds, 2013, 574, 255-259.	2.8	5
63	Damping and spin mixing conductance in Ni ₈₀ Fe ₂₀ /CuIr structures: effect of Ir doping. Journal Physics D: Applied Physics, 2017, 50, 135002.	1.3	5
64	Annealing effect on elastic, magnetic and magnetoelastic properties of CoFeB thin films on polymer substrate. Journal Physics D: Applied Physics, 2017, 50, 455002.	1.3	5
65	Surface Decoration as a Prospective Artificial Pinning Strategy in Superconducting YBa2Cu 3O _{7-x} Films. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.1	5
66	Spin Pumping and Magnetic Anisotropy in La 2/3 Sr 1/3 MnO 3/Pt Systems. Physica Status Solidi (B): Basic Research, 2020, 257, 2000265.	0.7	5
67	Dependence of the interfacial Dzyaloshinskii-Moriya interaction, perpendicular magnetic anisotropy, and damping in Co-based systems on the thickness of Pt and Ir layers. Physical Review B, 2021, 104, .	1.1	5
68	Interface phenomena in ferromagnet/ $\text{Ta/Co}_{20}\text{Fe}_{20}\text{B}_{20}\text{O}_{20}$ -based systems: Damping, perpendicular magnetic anisotropy, and Dzyaloshinskii-Moriya interaction. Physical Review Materials, 2020, 4, .	0.9	5
69	Al-doped and undoped zinc oxide films obtained by soft chemistry. Processing and Application of Ceramics, 2009, 3, 79-84.	0.4	5
70	Influence of a TiO2 buffer layer on the magnetic properties of anatase Co:TiO2 thin films. Journal of Applied Physics, 2012, 111, 083917.	1.1	4
71	ELECTRONIC, STRUCTURAL AND MAGNETIC PROPERTIES OF $\text{Co}_{20}\text{FeAl}$ THIN FILMS FOR POTENTIAL SPINTRONIC APPLICATIONS. Spin, 2014, 04, 1440022.	0.6	4
72	Design and Characterization of a Micrometric Magneto-resistive Sensor. , 2019, , .		4

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73	Annealing Temperature and Thickness Dependencies of Perpendicular Magnetic Anisotropy and Dzyaloshinskii-Moriya Interaction of Pt/Co/MgO Thin Films. IEEE Transactions on Magnetics, 2022, 58, 1-5.	1.2	4
74	Precursor chemistry for the solution deposition of epitaxial La _{0.66} Sr _{0.33} MnO ₃ (LSMO) thin films. Thin Solid Films, 2010, 518, 4753-4756.	0.8	3
75	New versatile synthesis for low dimension superparamagnetic YBa ₂ Cu ₃ O _{7-x} nanoparticles. Ceramics International, 2017, 43, 8845-8849.	2.3	3
76	Development of a non-contact angular transducer. , 2014, , .		2
77	Characterization of the Interfacial Dzyaloshinskii-Moriya Interaction in Pt/Co ₂ FeAl _{0.5} Si _{0.5} Ultrathin Films by Brillouin Light Scattering. IEEE Transactions on Magnetics, 2017, 53, 1-5.	1.2	2
78	Mechanism of Spin-Orbit Torques in Platinum Oxide Systems. Advanced Electronic Materials, 2022, 8, .	2.6	2
79	Atomic force microscopy study of nanocrystalline ceria thin films. Journal of Physics: Conference Series, 2009, 182, 012015.	0.3	1
80	Effect of the annealing temperature on dynamic and structural properties of Co ₂ FeAl thin films. EPJ Web of Conferences, 2014, 75, 02001.	0.1	1
81	PSpice Model for a Current Sensor Based on Spin-Valve Magnetoresistive Microstructure. , 2020, , .		1
82	Perpendicular Magnetic Anisotropy Electric Field Modulation in Magnetron-Sputtered Pt/Co/X/MgO Ultrathin Structures With Chemically Tailored Top Interface. IEEE Transactions on Magnetics, 2021, 57, 1-10.	1.2	1
83	Manufacturing, Characterization, and Simulation Model Design for a Current Sensor Based on a Spin-Valve Magnetoresistive Microstructure. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2022, 12, 422-428.	1.4	1
84	Exchange Coupling in Co/Ru/Co and Fe/MgO/Fe Multilayered Structures. AIP Conference Proceedings, 2007, , .	0.3	0
85	Perpendicular magnetic anisotropy in Co ₂ FeAl thin films: Effect of the annealing temperature. , 2015, , .		0
86	Single Source Precursor for PAD-LaMnO ₃ Thin Films. Crystals, 2020, 10, 851.	1.0	0
87	Hf thickness dependence of perpendicular magnetic anisotropy, damping and interfacial Dzyaloshinskii-Moriya interaction in Pt/CoFe/Hf/HfO ₂ . Physical Review Materials, 2021, 5, .	0.9	0
88	Morphological and Structural Evolution of Chemically Deposited Epitaxially LaNiO ₃ Thin Films. Coatings, 2021, 11, 1376.	1.2	0