

Radu Abrudan

List of Publications by Year in descending order

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52
papers

1,775
citations

331670

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54
all docs

54
docs citations

54
times ranked

3314
citing authors

#	ARTICLE	IF	CITATIONS
1	Interface-induced room-temperature multiferroicity in BaTiO ₃ . Nature Materials, 2011, 10, 753-758.	27.5	341
2	Crystallographically amorphous ferrimagnetic alloys: Comparing a localized atomistic spin model with experiments. Physical Review B, 2011, 84, .	3.2	130
3	Hybridization-controlled charge transfer and induced magnetism at correlated oxide interfaces. Nature Physics, 2016, 12, 484-492.	16.7	122
4	Perpendicular exchange bias in ferrimagnetic spin valves. Nature Communications, 2012, 3, 715.	12.8	112
5	Giant topological Hall effect in correlated oxide thin films. Nature Physics, 2019, 15, 67-72.	16.7	111
6	Ultrafast and Distinct Spin Dynamics in Magnetic Alloys. Spin, 2015, 05, 1550004.	1.3	81
7	Strongly Enhanced Orbital Moment by Reduced Lattice Symmetry and Varying Composition of $\text{Fe}_{1-x}\text{Ni}_x$ Thin Films. Physical Review Letters, 2008, 100, 037205.	7.8	61
8	Rationalizing strain engineering effects in rare-earth nickelates. Physical Review B, 2013, 88, .	3.2	58
9	Structural and magnetic properties of epitaxial $\text{Fe}_{1-x}\text{Co}_x\text{O}$ bilayers on $\text{Ag}(001)$. Physical Review B, 2011, 84, .	3.2	56
10	Valence transition in $(\text{Pr,Ca})\text{CoO}_3$ cobaltites: Charge migration at the metal-insulator transition. Physical Review B, 2011, 84, .	3.2	55
11	Angular Momentum Flow During Ultrafast Demagnetization of a Ferrimagnet. Physical Review Letters, 2019, 122, 157202.	3.2	53
12	Strain-Engineered Ferromagnetism in LaMnO_3 Thin Films. Crystal Growth and Design, 2015, 15, 5332-5337.	7.8	45
13	Manipulating Topological States by Imprinting Non-Collinear Spin Textures. Scientific Reports, 2015, 5, 8787.	3.0	44
14	Manipulation of antiferromagnetic domain distribution in Mn_2Au by ultrahigh magnetic fields and by strain. Physica Status Solidi - Rapid Research Letters, 2017, 11, 1600438.	3.3	38
15	Interfacial exchange coupling in Fe-Tb/[Co/Pt] heterostructures. Physical Review B, 2013, 87, .	2.4	36
16	Insight into spin transport in oxide heterostructures from interface-resolved magnetic mapping. Nature Communications, 2015, 6, 6306.	3.2	34
17	Development of magnetic moments in $\text{Fe}_{1-x}\text{Ni}_x$ -alloys. Journal of Physics Condensed Matter, 2011, 23, 254210.	12.8	34
18		1.8	33

#	ARTICLE	IF	CITATIONS
19	Ferroelectric Control of Interface Spin Filtering in Multiferroic Tunnel Junctions. <i>Physical Review Letters</i> , 2019, 122, 037601.	7.8	28
20	ALICEâ€”An advanced reflectometer for static and dynamic experiments in magnetism at synchrotron radiation facilities. <i>Review of Scientific Instruments</i> , 2015, 86, 063902.	1.3	26
21	Magnetic Study of Co-Doped Magnetosome Chains. <i>Journal of Physical Chemistry C</i> , 2018, 122, 7541-7550.	3.1	24
22	Magnetization compensation and spin reorientation transition in ferrimagnetic DyCo_5 : Multiscale modeling and element-specific measurements. <i>Physical Review B</i> , 2017, 96, .	3.2	18
23	Gilbert damping in NiFeGd compounds: Ferromagnetic resonance versus time-resolved spectroscopy. <i>Physical Review B</i> , 2019, 99, .	3.2	18
24	Precessional dynamics and damping in Co/Cu/Py spin valves. <i>Applied Physics Letters</i> , 2011, 99, 092509.	3.3	17
25	Configurational dependence of the magnetization dynamics in spin valve systems: Influence of spin pumping and domain wall induced coupling. <i>Physical Review B</i> , 2012, 86, .	3.2	17
26	Influence of the Fe-Co ratio on the exchange coupling in TbFeCo/[Co/Pt] heterostructures. <i>Physical Review B</i> , 2016, 93, .	3.2	17
27	Direct Imaging of Chiral Domain Walls and Néel-Type Skyrmionium in Ferrimagnetic Alloys. <i>Advanced Functional Materials</i> , 2021, 31, 2102307.	14.9	16
28	Precessional damping of Fe magnetic moments in a FeNi film. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 165001.	2.8	14
29	Exploration of magnetic fluctuations in PdFe films. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 266001.	1.8	14
30	Ultrafast hot-electron induced quenching of Tb magnetic order. <i>Physical Review B</i> , 2017, 96, .	3.2	12
31	Enhanced spin-orbit coupling in tetragonally strained FeCoB films. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 275802.	1.8	11
32	Magnetic domain coupling study in single-crystalline Fe/CoO bilayers. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 185004.	1.8	9
33	Adaption of a diffractometer for time-resolved X-ray resonant magnetic scattering. <i>Journal of Synchrotron Radiation</i> , 2011, 18, 212-216.	2.4	9
34	Controlled Magnetic Anisotropy in Single Domain Mn-doped Biosynthesized Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2020, 124, 22827-22838.	3.1	9
35	Direct observation of Cr spin polarization in epitaxial Cr/Co/Cr(100) trilayers. <i>Physical Review B</i> , 2013, 88, .	3.2	7
36	Element-Specific Magnetization Damping in Ferrimagnetic DyCo_5 Alloys Revealed by Ultrafast X-ray Measurements. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021, 15, 2100047.	2.4	7

#	ARTICLE	IF	CITATIONS
37	Inner relaxations in equiatomic single-phase high-entropy cantor alloy. Journal of Alloys and Compounds, 2022, 920, 165999.	5.5	7
38	X-ray resonant magnetic scattering from patterned multilayers. Physical Review B, 2012, 86, .	3.2	6
39	Probing the metal-insulator transition in nickelates using soft x-ray absorption spectroscopy. Applied Physics Letters, 2014, 104, .	3.3	6
40	Structure and magnetism of ultra-small cobalt particles assembled at titania surfaces by ion beam synthesis. Applied Surface Science, 2021, 570, 151068.	6.1	6
41	Two-magnon scattering by domain wall induced coupling in Co ₂ MnGe/Au/Py layer systems. Physica Status Solidi (B): Basic Research, 2016, 253, 1782-1787.	1.5	5
42	Search for enhanced magnetism at the interface between Bi ₂ Te ₃ and EuSe. Physical Review B, 2021, 103, .	2.2	4
43	The effect of annealing on the junction profile of CoFeB/MgO tunnel junctions. Journal of Applied Physics, 2010, 108, 063922.	2.5	4
44	Magnetic Anisotropy of Individual Nanomagnets Embedded in Biological Systems Determined by Axi-symmetric X-ray Transmission Microscopy. ACS Nano, 2022, 16, 7398-7408.	14.6	4
45	Ultrafast magnetism as seen by x-rays. Proceedings of SPIE, 2012, , .	0.8	3
46	Exploration of precessional spin dynamics in magnetic multilayers. Journal of Applied Physics, 2012, 112, 103914.	2.5	3
47	Ultra-short helix pitch and spiral ordering in cholesteric liquid crystal revealed by resonant soft X-ray scattering. Soft Matter, 2021, 18, 89-96.	2.7	3
48	Nanoscale mechanical control of surface electrical properties of manganite films with magnetic nanoparticles. Nanoscale Advances, 2019, 1, 1763-1771.	4.6	1
49	Engineering Ultrafast Magnetism. Springer Proceedings in Physics, 2015, , 297-299.	0.2	1
50	Ultra-small cobalt particles embedded in titania by ion beam synthesis: Additional datasets including electron microscopy, neutron reflectometry, modelling outputs and particle size analysis. Data in Brief, 2022, 40, 107674.	1.0	1
51	Shift of the blocking temperature of Co nanoparticles by Cr capping. Journal of Applied Physics, 2013, 114, 233908.	2.5	0
52	Temperature and concentration dependent magnetic properties of epitaxial Fe _{1-x} Cr _x -alloy films in the high Cr-concentration regime. Journal of Applied Physics, 2014, 116, .	2.5	0