

Katharina Ollefs

List of Publications by Year in descending order

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67
papers

1,675
citations

304368

22
h-index

301761

39
g-index

70
all docs

70
docs citations

70
times ranked

2607
citing authors

#	ARTICLE	IF	CITATIONS
1	Absence of Intrinsic Ferromagnetic Interactions of Isolated and Paired Co Dopant Atoms in $Zn_{1-x}Co_xO$ with High Structural Perfection. Physical Review Letters, 2008, 100, 157201.	2.9	77
2	Spin pumping damping and magnetic proximity effect in Pd and Pt spin-sink layers. Physical Review B, 2016, 94, .	1.1	121
3	Advanced spectroscopic synchrotron techniques to unravel the intrinsic properties of dilute magnetic oxides: the case of Co:ZnO. New Journal of Physics, 2010, 12, 013020.	1.2	89
4	Hysteresis Design of Magnetocaloric Materials – From Basic Mechanisms to Applications. Energy Technology, 2018, 6, 1397-1428.	1.8	79
5	High-Resolution X-Ray Lensless Imaging by Differential Holographic Encoding. Physical Review Letters, 2010, 105, 043901.	2.9	77
6	Spin Hall magnetoresistance in a canted ferrimagnet. Physical Review B, 2016, 94, .	1.1	73
7	Element-Specific Magnetic Hysteresis of Individual 18 nm Fe Nanocubes. Nano Letters, 2011, 11, 1710-1715.	4.5	64
8	Limitations of measuring small magnetic signals of samples deposited on a diamagnetic substrate. Journal of Magnetism and Magnetic Materials, 2008, 320, 3341-3346.	1.0	59
9	Magnetic properties of rare-earth and transition metal based perovskite type high entropy oxides. Journal of Applied Physics, 2020, 127, .	1.1	48
10	Role of intermediate d states in tuning the band structure of high entropy oxides. APL Materials, 2020, 8, .	2.2	47
11	Anisotropic paramagnetism of Co-doped ZnO epitaxial films. Physical Review B, 2010, 81, .	1.1	46
12	Iridates from the molecular side. Nature Communications, 2016, 7, 12195.	5.8	41
13	Magnetism of Co doped ZnO with Al codoping: Carrier-induced mechanisms versus extrinsic origins. Physical Review B, 2010, 82, .	1.1	40
14	Comprehensive investigation of crystallographic, spin-electronic and magnetic structure of $Zn_{1-x}Co_xO$		

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19	Element specific magnetic properties of Gd-doped GaN: Very small polarization of Ga and paramagnetism of Gd. Physical Review B, 2008, 77, .	1.1	34
20	Investigating magnetic proximity effects at ferrite/Pt interfaces. Applied Physics Letters, 2017, 111, .	1.5	28
21	Absence of ferromagnetic-transport signatures in epitaxial paramagnetic and superparamagnetic $Zn_{0.95}Mn_{0.05}O$. Physical Review B, 2009, 80, .	1.1	24
22	Magnetic interactions in the Zn-Co-O system: tuning local structure, valence and carrier type from extremely Co doped ZnO to ZnCo ₂ O ₄ . Scientific Reports, 2015, 5, 16863.	1.6	23
23	Coalescence-driven magnetic order of the uncompensated antiferromagnetic Co doped ZnO. Physical Review B, 2016, 94, .	1.1	21
24	Magnetic response of FeRh to static and dynamic disorder. RSC Advances, 2020, 10, 14386-14395.	1.7	21
25	Gd-doped GaN studied with element specificity: Very small polarization of Ga, paramagnetism of Gd and the formation of magnetic clusters. Journal of Magnetism and Magnetic Materials, 2010, 322, 1162-1166.	1.0	18
26	[OsF ₆] ⁻ : Molecular Models for Spin-Orbit Entangled Phenomena. Chemistry - A European Journal, 2017, 23, 11244-11248.	1.7	18
27	Microscopic nonequilibrium energy transfer dynamics in a photoexcited metal/insulator heterostructure. Physical Review B, 2019, 100, .	1.1	18
28	Europium Cyclooctatetraene Nanowire Carpets: A Low-Dimensional, Organometallic, and Ferromagnetic Insulator. Journal of Physical Chemistry Letters, 2019, 10, 911-917.	2.1	18
29	A full gap above the Fermi level: the charge density wave of monolayer VS ₂ . Nature Communications, 2021, 12, 6837.	5.8	16
30	Electronic and magnetic properties of phosphorus across the first-order ferromagnetic transition of $Mn_{1-x}P_xSi$ magnetocaloric materials. Physical Review B, 2015, 92, .	1.1	15
31	Electronic and magnetic properties of phosphorus across the first-order ferromagnetic transition of $Mn_{1-x}P_xSi$ magnetocaloric materials. Physical Review B, 2015, 92, .	1.1	15
32	Magnetic ordering in magnetic shape memory alloy Ni-Mn-In-Co. Physical Review B, 2015, 92, .	1.1	14
33	Local probe of irradiation-induced structural changes and orbital magnetism in $Fe_{60}Al_{40}$ thin films via an order-disorder phase transition. Physical Review B, 2018, 98, .	1.1	14
34	The combination of micro-resonators with spatially resolved ferromagnetic resonance. Review of Scientific Instruments, 2017, 88, 093703.	0.6	13
35	Toward broad-band x-ray detected ferromagnetic resonance in longitudinal geometry. Journal of Applied Physics, 2015, 117, .	1.1	12
36	Engineering the magnetic anisotropy of an ultrathin Co layer sandwiched between films of Mo or Au. Journal Physics D: Applied Physics, 2017, 50, 215004.	1.3	11

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37	X-Ray Linear Dichroism: An Element-Selective Spectroscopic Probe for Local Structural Properties and Valence. Journal of Surfaces and Interfaces of Materials, 2014, 2, 14-23.	0.5	11
38	Local structure and magnetism of $\text{Co}_{1-x}\text{Zn}_x\text{O}$ in wurtzite Co:ZnO . Physical Review B, 2017, 95, .	1.0	10
39	Electronic structure and magnetism of epitaxial $\text{Ni}_{1-x}\text{Mn}_x\text{Ga(-Co)}$ thin films with partial disorder: a view across the phase transition. Journal Physics D: Applied Physics, 2017, 50, 465005.	1.3	10
40	Non-standing spin-waves in confined micrometer-sized ferromagnetic structures under uniform excitation. Applied Physics Letters, 2020, 116, 072401.	1.5	10
41	Local structure and X-ray magnetic circular dichroism of Au in Au-Co nanoalloys. Applied Surface Science, 2018, 433, 596-601.	3.1	8
42	Extracting the Dynamic Magnetic Contrast in Time-Resolved X-ray Transmission Microscopy. Nanomaterials, 2019, 9, 940.	1.9	8
43	Static magnetic proximity effects and spin Hall magnetoresistance in Pt/Y ₃ Fe ₅ O ₁₂ and inverted Y ₃ Fe ₅ O ₁₂ /Pt bilayers. Physical Review B, 2020, 102, .	1.1	8
44	Tuning the magnetic properties of films. Journal of Magnetism and Magnetic Materials, 2010, 322, 1232-1234.	1.0	7
45	Structure, valence, and magnetism of Co-doped ZnO at the coalescence limit (invited). Journal of Applied Physics, 2014, 115, 172603.	1.1	6
46	XAS and XMCD studies of magnetic properties modifications of Pt/Co/Au and Pt/Co/Pt trilayers induced by Ga ⁺ ions irradiation. Journal of Synchrotron Radiation, 2015, 22, 753-759.	1.0	6
47	Magnetic and XMCD studies of Pr ^x Sr _{1-x} MnO ₃ manganite films. Journal of Magnetism and Magnetic Materials, 2017, 428, 43-49.	1.0	6
48	XMCD studies of magnetic polarization at Mo atoms in CoMo alloy and magnetically coupled Co/Mo multilayers. Journal of Synchrotron Radiation, 2018, 25, 1400-1407.	1.0	6
49	Epitaxy Induced Highly Ordered Sm ₂ Co ₁₇ â€“SmCo ₅ Nanoscale Thin-Film Magnets. ACS Applied Materials & Interfaces, 2021, 13, 32415-32423.	4.0	6
50	Spatially resolved GHz magnetization dynamics of a magnetite nano-particle chain inside a magnetotactic bacterium. Physical Review Research, 2021, 3, .	1.3	6
51	Element specific measurements of the structural properties and magnetism of. Journal of Magnetism and Magnetic Materials, 2009, 321, 699-701.	1.0	5
52	Influence of the developing magnetic order on the transport properties of epitaxial Zn _{1-x} CoxO films. Journal of Physics: Conference Series, 2010, 200, 052034.	0.3	4
53	Co-Doped ZnO Epitaxial Films: From a Brillouin-Like Paramagnet to a Phase-Separated Superparamagnetic Ensemble. Journal of Nanoscience and Nanotechnology, 2010, 10, 5958-5963.	0.9	4
54	Co and Cu co-doped ZnO epitaxial filmsâ€“A magnetically soft nano-composite. Journal of Applied Physics, 2016, 119, .	1.1	4

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55	Magnetic Proximity Effect Free Spin Hall Magnetoresistance in YIG/Pd. Spin, 2017, 07, 1740005.	0.6	4
56	Interface-related magnetic and vibrational properties in Fe/MgO heterostructures from nuclear resonant spectroscopy and first-principles calculations. Physical Review Materials, 2020, 4, .	0.9	4
57	Effect of lattice excitations on transient near-edge x-ray absorption spectroscopy. Physical Review B, 2021, 104, .	1.1	4
58	Uniaxially Aligned 1D Sandwich-Molecular Wires: Electronic Structure and Magnetism. Journal of Physical Chemistry C, 2022, 126, 3140-3150.	1.5	4
59	Tailoring magnetic anisotropy by graphene-induced selective skyhook effect on 4f-metals. Nanoscale, 2022, 14, 7682-7691.	2.8	4
60	X-ray magnetic circular dichroism measured at the FeK-edge with a reduced intrinsic broadening: x-ray absorption spectroscopy versus resonant inelastic x-ray scattering measurements. Journal of Physics Condensed Matter, 2016, 28, 505202.	0.7	3
61	Towards a mechanistic understanding of the sol-gel syntheses of ternary carbides. Inorganic Chemistry Frontiers, 2022, 9, 1565-1574.	3.0	3
62	X-ray absorption spectroscopy in electrical fields: An element-selective probe of atomic polarization. Physical Review B, 2016, 93, .	1.1	2
63	Observation of the Onset of Magnetic Clustering in Superparamagnetic Zn _{1-x} Co _x O Films. Journal of Superconductivity and Novel Magnetism, 2010, 23, 91-94.	0.8	1
64	Role of preparation and implantation-related defects for the magnetic properties of Zn _{0.9} Co _{0.1} O epitaxial films. Journal of Applied Physics, 2014, 116, 043912.	1.1	1
65	Simultaneous Multi-Property Probing During Magneto-Structural Phase Transitions: An Element-Specific and Macroscopic Hysteresis Characterization at ID12 of the ESRF. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-9.	2.4	1
66	Effects of the Inhomogeneous Co Doping on the Magnetoresistance of Zn _{1-x} Co _x O Epitaxial Films. Journal of Nanoscience and Nanotechnology, 2012, 12, 1054-1058.	0.9	0
67	Peculiarities of Disorder-Induced Ferromagnetism Phenomena in Fe ₆₀ A ₄₀ films on a local scale. , 2018, , .		0