Tomasz ÅlÈ©zak

List of Publications by Year
in descending order

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87 papers	1,275 citations	361413 20 h-index	434195 31 g-index
90 all docs	90 docs citations	90 times ranked	1242 citing authors

#	Article	IF	Citations
1	Size effects in epitaxial films of magnetite. Thin Solid Films, 2002, 412, 14-23.	1.8	70
2	Atomic ResolutionÎ³-ray Holography Using the MÃ¶ssbauer Effect. Physical Review Letters, 1997, 79, 3518-3521.	7.8	62
3	Phonons in Iron: From the Bulk to an Epitaxial Monolayer. Physical Review Letters, 2007, 99, 185501.	7.8	56
4	The first experimental results from the 04BM (PEEM/XAS) beamline at Solaris. Nuclear Instruments & Methods in Physics Research B, 2021, 492, 43-48.	1.4	48
5	Phonons at the Fe(110) Surface. Physical Review Letters, 2007, 99, 066103.	7.8	46
6	Noncollinear Magnetization Structure at the Thickness-Driven Spin-Reorientation Transition in Epitaxial Fe Films on W(110). Physical Review Letters, 2010, 105, 027206.	7.8	44
7	Experimental and theoretical studies of vibrational density of states inFe3O4single-crystalline thin films. Physical Review B, 2005, 71, .	3.2	41
8	Magneto-optical anisotropy study ofFen/Aunsuperlattices. Physical Review B, 2000, 62, 13731-13747.	3.2	39
9	Surface Structure of Epitaxial Magnetite Fe3O4(001) Films:Â In Situ STM and CEMS Studiesâ€. Journal of Physical Chemistry B, 2004, 108, 14356-14361.	2.6	39
10	Observation of the Conduction Electron Spin Polarization in the Ag Spacer of aFe/Ag/FeTrilayer. Physical Review Letters, 2003, 91, 017204.	7.8	36
11	An ultrahigh vacuum system forin situstudies of thin films and nanostructures by nuclear resonance scattering of synchrotron radiation. Review of Scientific Instruments, 2008, 79, 045108.	1.3	33
12	Thermal and irradiation induced interdiffusion in magnetite thin films grown on magnesium oxide (001) substrates. Surface Science, 2009, 603, 1175-1181.	1.9	32
13	Structure, composition and crystallinity of epitaxial magnetite thin films. Surface Science, 2008, 602, 2358-2362.	1.9	28
14	Tailoring of the Perpendicular Magnetization Component in Ferromagnetic Films on a Vicinal Substrate. Physical Review Letters, 2008, 101, 217202.	7.8	28
15	Magnesium interdiffusion and surface oxidation in magnetite epitaxial films grown on MgO(1 0 0).. Vacuum, 2001, 63, 331-336.	3.5	24
16	Site-Selective Holographic Imaging of Iron Arrangements in Magnetite. Physical Review Letters, 2004, 92, 205501.	7.8	24
17	Phonons in Ultrathin Oxide Films: 2D to 3D Transition in FeO on Pt(111). Physical Review Letters, 2015, 115, 186102.	7.8	22
18	How a ferromagnet drives an antiferromagnet in exchange biased CoO/Fe(110) bilayers. Scientific Reports, 2019, 9, 889.	3.3	22

#	ARTICLE	IF	CITATIONS
19	Ultrathin epitaxial bcc-Co films stabilized on Au(001)-hex. Surface Science, 2004, 566-568, 272-277.	1.9	21
20	Electronic and magnetic properties of ultra-thin epitaxial magnetite films on MgO(001). Thin Solid Films, 2011, 519, 5588-5595.	1.8	21
21	Room-temperature perpendicular magnetic anisotropy of MgO/Fe/MgO ultrathin films. Journal of Applied Physics, 2013, 114, .	2.5	21
22	Spin engineering with Feâ€“Au monolayers. Journal of Magnetism and Magnetic Materials, 2002, 240, 362-364.	2.3	18
23	Thickness-driven polar spin reorientation transition in ultrathin Fe/Au(001) films. Physical Review B, 2010, 81, .	3.2	18
24	Perpendicular magnetic anisotropy and noncollinear magnetic structure in ultrathin Fe films on W(110). Physical Review B, 2013, 87, .	3.2	18
25	From Monoatomic Multilayers To Ordered Alloys. Acta Physica Polonica A, 2000, 97, 129-139.	0.5	18
26	X-ray photoemission electron microscopy study of the in-plane spin reorientation transitions in epitaxial Fe films on W(110). Journal of Magnetism and Magnetic Materials, 2013, 348, 101-106.	2.3	17
27	Giant in-plane magnetic anisotropy in epitaxial bcc Co/Fe(110) bilayers. Physical Review B, 2016, 94, .	3.2	17
28	Interface modeling in Cr/Fe/Cr sandwiches studied by CEMS. Vacuum, 2001, 63, 337-344.	3.5	16
29	Probing the magnetic state of Fe/FeO/Fe trilayers by multiple isotopic sensor layers. Applied Physics Letters, 2009, 94, .	3.3	16
30	Different scenarios for the in-plane spin reorientation transition in Fe(110) films on W(110). Physical Review B, 2013, 87, .	3.2	16
31	Switching of Co Magnetization Driven by Antiferromagnetic-Ferromagnetic Phase Transition of FeRh Alloy in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Co</mml:mi><mml:mrow><mml:mo>/</mml:mo><mml:mi>FeRh</mml:mi></mml:mrow></mml Bilayers. Physical Review Applied, 2018, 9, .	3.8	15
32	Oxygen on an Fe monolayer on W(110): From chemisorption to oxidation. Surface Science, 2013, 617, 183-191.	1.9	14
33	Growth and magnetic properties of ultrathin epitaxial FeO films and Fe/FeO bilayers on MgO(001). Applied Physics Letters, 2016, 108, .	3.3	14
34	Antiferromagnetic interlayer exchange coupling in epitaxial Fe/MgO/Fe trilayers with MgO barriers as thin as single monolayers. Journal of Applied Physics, 2014, 115, .	2.5	13
35	Interface engineering towards enhanced exchange interaction between Fe and FeO in Fe/MgO/FeO epitaxial heterostructures. Applied Physics Letters, 2019, 115, .	3.3	13
36	Correlation of morphology and magnetic properties in ultrathin epitaxial Co films on Au(). Surface Science, 2002, 507-510, 546-552.	1.9	12

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37	Depth dependence of iron diffusion inFe3Sistudied with nuclear resonant scattering. Physical Review B, 2007, 75, .	3.2	12
38	Exchange bias in epitaxial CoO/Fe bilayer grown on MgO(001). Surface and Interface Analysis, 2010, 42, 696-698.	1.8	12
39	Magnetism of ultrathin Fe films in MgO/Fe/MgO in epitaxial structures probed by nuclear resonant scattering of synchrotron radiation. Journal of Applied Physics, 2013, 113, 214309.	2.5	12
40	Superstructures on Epitaxial Fe3O4(111) Films: Biphase Formation versus the Degree of Reduction. Journal of Physical Chemistry C, 2019, 123, 4204-4216.	3.1	12
41	Thermal and irradiation induced interdiffusion in Fe3O4/MgO(001) thin film. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 1484-1488.	1.4	11
42	Fine tuning of ferromagnet/antiferromagnet interface magnetic anisotropy for field-free switching of antiferromagnetic spins. Nanoscale, 2020, 12, 18091-18095.	5.6	11
43	Control of spin orientation in antiferromagnetic NiO by epitaxial strain and spinâ€“flop coupling. APL Materials, 2020, 8, .	5.1	11
44	Conversion electron MÃ¶ssbauer spectroscopy studies of ultrathin Fe films on MgO(001). Surface Science, 2007, 601, 4305-4310.	1.9	10
45	Nuclear resonant scattering studies of electric field gradient in Fe monolayer on W(110). Surface Science, 2008, 602, 1453-1457.	1.9	10
46	Verwey Transition in Epitaxial Fe3O4 Films. Journal of Radioanalytical and Nuclear Chemistry, 2000, 246, 27-32.	1.5	9
47	CEMS Studies of Au/Fe/Au Ultrathin Films and Monoatomic Multilayers. Physica Status Solidi A, 2002, 189, 287-292.	1.7	7
48	Coupling of collective motions of the protein matrix to vibrations of the non-heme iron in bacterial photosynthetic reaction centers. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 1696-1704.	1.0	7
49	The dynamics of the non-heme iron in bacterial reaction centers from Rhodobacter sphaeroides. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 2095-2102.	1.0	7
50	Tunable magnetic properties of monoatomic metal-oxide Fe/MgO multilayers. Physical Review B, 2014, 90, .	3.2	7
51	Prospects of Xâ€ray photoemission electron microscopy at the first beamline of the Polish synchrotron facility â€˜Solarisâ€™. X-Ray Spectrometry, 2015, 44, 317-322.	1.4	7
52	Controllable magnetic anisotropy and spin orientation of a prototypical easy-plane antiferromagnet on a ferromagnetic support. Physical Review B, 2021, 104, .	3.2	7
53	Interface Structure and Indirect Coupling in Annealed Fe/Cr/Fe Ultrathin Films. Physica Status Solidi A, 2002, 189, 705-709.	1.7	6
54	Diffusion of muons in metallic multilayers. Physica B: Condensed Matter, 2003, 326, 545-549.	2.7	6

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55	Dynamics in submonolayer Fe-films. Surface Science, 2004, 566-568, 372-376.	1.9	6
56	R-VSM and MOKE magnetometers for nanostructures. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 2294-2295.	2.3	6
57	Hyperfine Relaxation in an Iron Submonolayer. Defect and Diffusion Forum, 2005, 237-240, 1225-1229.	0.4	6
58	Phonons in iron monolayers. Journal of Physics: Conference Series, 2010, 217, 012144.	0.4	6
59	Temperature controlled Fe/Au/FeRh spin valves. AIP Advances, 2018, 8, 101434.	1.3	6
60	Oscillating magnetic anisotropy in epitaxial Au/Fe(1â€¯1â€¯0) and Co/Au/Fe(1â€¯1â€¯0) films. Journal of Magnetism and Magnetic Materials, 2020, 497, 165963.	2.3	6
61	Giant magneto-optical anisotropy in Fe/Au monoatomic multilayer. Solid State Communications, 2000, 114, 441-445.	1.9	5
62	Magnetic properties of epitaxial CoO/Fe(001) bilayers: The onset of exchange bias as a function of sublayer thickness and temperature. Physical Review B, 2017, 96, .	3.2	5
63	Interlayer exchange coupling, dipolar coupling and magnetoresistance in Fe/MgO/Fe trilayers with a subnanometer MgO barrier. Journal of Magnetism and Magnetic Materials, 2017, 424, 189-193.	2.3	5
64	Adsorption induced modification of in-plane magnetic anisotropy in epitaxial Co and Fe/Co films on Fe(110). AIP Advances, 2018, 8, 056806.	1.3	5
65	Multiple spin reorientation transitions and large in plane magnetic anisotropy in epitaxial Au/Co/Fe(1â€¯1â€¯0) films. Journal of Magnetism and Magnetic Materials, 2019, 475, 195-200.	2.3	5
66	Tailorable exchange bias and memory of frozen antiferromagnetic spins in epitaxial CoO(1 1 1)/Fe(1 1 0) bilayers. Journal of Magnetism and Magnetic Materials, 2022, 545, 168783.	2.3	5
67	Observation of the domain structure in Feâ€“Au superlattices with perpendicular anisotropy. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 1253-1254.	2.3	4
68	Fe dopants and surface adatoms versus nontrivial topology of single-crystalline Bi₂Se₃. New Journal of Physics, 2020, 22, 063020.	2.9	4
69	Magnetic Anisotropy and Temperature Dependence of Exchange Bias in Epitaxial CoO(111)/Fe(110) Bilayers. Acta Physica Polonica A, 2020, 137, 44-47.	0.5	4
70	Magnetism of thin chromium films studied with low-energy muon spin rotation. Physica B: Condensed Matter, 2000, 289-290, 326-330.	2.7	3
71	Kerr magnetometer based on a differential amplifier. Physica Status Solidi A, 2003, 196, 161-164.	1.7	3
72	Long range electron spin polarization in the Ag layer of a Fe/Ag film. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 1128-1129.	2.3	3

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73	The influence of the interlayer exchange coupling on the magnetism of an Fe(001) monolayer. Surface Science, 2007, 601, 4300-4304.	1.9	3
74	Magnetization processes in ultrathin Auâˆ•Coâˆ•Au films grown on a bifacial Mo(110)/Mo(540) single crystal. Journal of Applied Physics, 2008, 103, .	2.5	3
75	Perpendicular magnetic anisotropy and residual magnetic phases in gold-capped FeRh film on MgO(0â€¯0â€¯1). Journal of Magnetism and Magnetic Materials, 2020, 495, 165804.	2.3	3
76	Spin-flop coupling induced large coercivity enhancement in Fe/FeRh/W(110) bilayers across ferromagneticâ€“antiferromagnetic phase transition of FeRh alloy. Journal of Magnetism and Magnetic Materials, 2020, 498, 166258.	2.3	3
77	NONMAGNETIC IRON LAYERS AT THE Fe/Ru INTERFACE. Surface Review and Letters, 1997, 04, 1239-1243.	1.1	2
78	Indirect exchange coupling and spin polarization in Fe/AlFe/Fe trilayers. Journal of Magnetism and Magnetic Materials, 1999, 198-199, 405-407.	2.3	2
79	Experimental studies of the non-collinear magnetic states in epitaxial FeAu multilayers. Journal of Magnetism and Magnetic Materials, 2002, 240, 536-538.	2.3	2
80	Iron Diffusion Near Surface of Fe₃Si is Fast- and Decays to Bulk Values within 3 nm. Defect and Diffusion Forum, 2005, 237-240, 1222-1224.	0.4	2
81	Magnetism of ultra-thin iron films seen by the nuclear resonant scattering of synchrotron radiation. Journal of Physics: Conference Series, 2010, 217, 012090.	0.4	2
82	Influence of Cd2+on the spin state of non-heme iron and on protein local motions in reactions centers from purple photosynthetic bacteriumRhodospirilium rubrum. Journal of Physics: Conference Series, 2010, 217, 012021.	0.4	2
83	Beating the limitation of the NÃ©el temperature of FeO with antiferromagnetic proximity in FeO/CoO. Applied Physics Letters, 2022, 120, 072404.	3.3	2
84	Domain structures and magnetization processes of ultrathin ordered ironâ€“gold alloys films. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E555-E556.	2.3	1
85	Spin polarization and interlayer coupling in Fe/FeAl/Fe sandwiches. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E971-E972.	2.3	0
86	Driving the polar spin reorientation transition of ultrathin ferromagnets with antiferromagneticâ€“ferromagnetic phase transition of nearby FeRh alloy film. Scientific Reports, 2020, 10, 14901.	3.3	0
87	P1029 Pan-microbial detection using Axiom genotyping solution from Affymetrix. Journal of Animal Science, 2016, 94, 29-29.	0.5	0