

Nika Spiridis

List of Publications by Year in descending order

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81
papers

1,136
citations

394421

19
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454955

30
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83
all docs

83
docs citations

83
times ranked

1314
citing authors

#	ARTICLE	IF	CITATIONS
1	Size effects in epitaxial films of magnetite. <i>Thin Solid Films</i> , 2002, 412, 14-23.	1.8	70
2	Fe ₃ O ₄ (001)films onFe(001): Termination and reconstruction of iron-rich surfaces. <i>Physical Review B</i> , 2006, 74, .	3.2	63
3	Phonons in Iron: From the Bulk to an Epitaxial Monolayer. <i>Physical Review Letters</i> , 2007, 99, 185501.	7.8	56
4	The first experimental results from the 04BM (PEEM/XAS) beamline at Solaris. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2021, 492, 43-48.	1.4	48
5	Phonons at the Fe(110) Surface. <i>Physical Review Letters</i> , 2007, 99, 066103.	7.8	46
6	STM studies of Au nano-clusters on TiO ₂ (1 1 0). <i>Vacuum</i> , 2001, 63, 99-105.	3.5	44
7	Noncollinear Magnetization Structure at the Thickness-Driven Spin-Reorientation Transition in Epitaxial Fe Films on W(110). <i>Physical Review Letters</i> , 2010, 105, 027206.	7.8	44
8	Surface Structure of Epitaxial Magnetite Fe ₃ O ₄ (001) Films:Å In Situ STM and CEMS Studiesâ€. <i>Journal of Physical Chemistry B</i> , 2004, 108, 14356-14361.	2.6	39
9	Fe/CoO(001) and Fe/CoO(111) bilayers: Effect of crystal orientation on the exchange bias. <i>Physical Review B</i> , 2013, 88, .	3.2	34
10	An ultrahigh vacuum system for in situ studies of thin films and nanostructures by nuclear resonance scattering of synchrotron radiation. <i>Review of Scientific Instruments</i> , 2008, 79, 045108.	1.3	33
11	Tailoring of the Perpendicular Magnetization Component in Ferromagnetic Films on a Vicinal Substrate. <i>Physical Review Letters</i> , 2008, 101, 217202.	7.8	28
12	Influence of Au reconstruction on growth of Fe on Au(100). <i>Applied Surface Science</i> , 1999, 141, 313-318.	6.1	27
13	Growth and electronic and magnetic structure of iron oxide films on Pt(111). <i>Physical Review B</i> , 2012, 85, .	3.2	26
14	Epitaxial MgO/Fe(001) and Fe/MgO(001): Structures of the interfaces. <i>Journal of Applied Physics</i> , 2013, 113, 024320.	2.5	26
15	Phonons in Ultrathin Oxide Films: 2D to 3D Transition in FeO on Pt(111). <i>Physical Review Letters</i> , 2015, 115, 186102.	7.8	22
16	Ultrathin epitaxial bcc-Co films stabilized on Au(001)-hex. <i>Surface Science</i> , 2004, 566-568, 272-277.	1.9	21
17	Electronic and magnetic properties of ultra-thin epitaxial magnetite films on MgO(001). <i>Thin Solid Films</i> , 2011, 519, 5588-5595.	1.8	21
18	NMR and local anisotropy in YCo ₄ B. <i>Journal of Magnetism and Magnetic Materials</i> , 1990, 83, 153-154.	2.3	19

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19	Au/FeOx catalysts of different degree of iron oxide reduction. Catalysis Today, 2012, 187, 20-29.	4.4	19
20	Spin engineering with Fe/Au monolayers. Journal of Magnetism and Magnetic Materials, 2002, 240, 362-364.	2.3	18
21	Thickness-driven polar spin reorientation transition in ultrathin Fe/Au(001) films. Physical Review B, 2010, 81, .	3.2	18
22	Cluster-support interaction in Au/Fe ₃ O ₄ system. Catalysis Today, 2011, 169, 24-28.	4.4	18
23	Perpendicular magnetic anisotropy and noncollinear magnetic structure in ultrathin Fe films on W(110). Physical Review B, 2013, 87, .	3.2	18
24	Effect of interfacial iron oxidation on the exchange bias in CoO/Fe bilayers. Applied Surface Science, 2014, 304, 86-90.	6.1	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	Switching of Co Magnetization Driven by Antiferromagnetic-Ferromagnetic Phase Transition of FeRh Alloy in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{Co} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \text{FeRh} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \text{Bilayers}$. Physical Review Applied, 2018, 9, .	3.8	15
28	Layer-by-layer epitaxial growth of polar FeO(111) thin films on MgO(111). Surface Science, 2012, 606, 711-714.	1.9	14
29	Oxygen on an Fe monolayer on W(110): From chemisorption to oxidation. Surface Science, 2013, 617, 183-191.	1.9	14
30	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
31	Correlation of morphology and magnetic properties in ultrathin epitaxial Co films on Au(). Surface Science, 2002, 507-510, 546-552.	1.9	12
32	Exchange bias in epitaxial CoO/Fe bilayer grown on MgO(001). Surface and Interface Analysis, 2010, 42, 696-698.	1.8	12
33	Superstructures on Epitaxial Fe ₃ O ₄ (111) Films: Biphasic Formation versus the Degree of Reduction. Journal of Physical Chemistry C, 2019, 123, 4204-4216.	3.1	12
34	The influence of hydrogen on ⁵⁵ Mn hyperfine fields in YMn ₂ hydrides. Hyperfine Interactions, 1990, 59, 353-356.	0.5	11
35	NMR of samarium and neodymium in intermetallic compounds with iron and cobalt. Journal of Magnetism and Magnetic Materials, 1992, 104-107, 1198-1200.	2.3	10
36	Morphology of Fe/MgO(001) ultrathin films. Journal of Applied Physics, 2007, 102, 034310.	2.5	10

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37	Conversion electron Mössbauer spectroscopy studies of ultrathin Fe films on MgO(001). Surface Science, 2007, 601, 4305-4310.	1.9	10
38	Au adsorption on defect-rich MgO(100) surfaces. Surface and Interface Analysis, 2010, 42, 536-539.	1.8	9
39	Decoding Biomineralization: Interaction of a Mad10-Derived Peptide with Magnetite Thin Films. Nano Letters, 2019, 19, 8207-8215.	9.1	9
40	NMR Investigations of YMn ₂ H _x Hydrides*. Zeitschrift Fur Physikalische Chemie, 1993, 179, 467-472.	2.8	8
41	Magnetic Domains and Anisotropy in Ultrathin Au/Co/Au Wedges Deposited on Mica Substrates. Physica Status Solidi A, 2002, 189, 929-933.	1.7	8
42	Au(111) films on W(110) studied by STM and LEED – Uniaxial reconstruction, dislocations and Ag nanostructures. Applied Surface Science, 2014, 312, 91-96.	6.1	8
43	Samarium NMR in the Sm ₂ Co ₁₇ compound. Journal of Magnetism and Magnetic Materials, 1991, 101, 401-402.	2.3	7
44	CEMS Studies of Au/Fe/Au Ultrathin Films and Monoatomic Multilayers. Physica Status Solidi A, 2002, 189, 287-292.	1.7	7
45	Adsorption of Gold on an Iron-Rich Fe ₃ O ₄ (001) Surface. Journal of Physical Chemistry C, 2014, 118, 2011-2017.	3.1	7
46	Prospects of X-ray photoemission electron microscopy at the first beamline of the Polish synchrotron facility – Solaris™. X-Ray Spectrometry, 2015, 44, 317-322.	1.4	7
47	Oxygen Adsorption on the Fe(110) Surface: The Old System – New Structures. Journal of Physical Chemistry C, 2016, 120, 3807-3813.	3.1	7
48	Chemistry-dependent magnetic properties at the FeNi oxide–metal interface. Journal of Materials Chemistry C, 2020, 8, 5777-5785.	5.5	7
49	Reversible oxidation–reduction of epitaxial iron oxide films on Pt(111): Magnetite–hematite interconversion. Journal of Chemical Physics, 2020, 152, 054701.	3.0	7
50	Interface Structure and Indirect Coupling in Annealed Fe/Cr/Fe Ultrathin Films. Physica Status Solidi A, 2002, 189, 705-709.	1.7	6
51	Electronic states of magnetite from photoemission spectroscopy ARUPS. Physica Status Solidi (B): Basic Research, 2006, 243, 103-106.	1.5	6
52	Phonons in iron monolayers. Journal of Physics: Conference Series, 2010, 217, 012144.	0.4	6
53	The Influence of Base Metal (M) Oxidation State in Au-M-O/TiO ₂ Systems on Their Catalytic Activity in Carbon Monoxide Oxidation. Catalysts, 2012, 2, 38-55.	3.5	6
54	A LEED study of surface relaxation in Fe(110) epitaxial film on W(110). Applied Surface Science, 2013, 286, 66-70.	6.1	6

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55	Corrosion of epitaxial Fe(001) films studied with CEMS and AFM. Surface Science, 2002, 507-510, 865-871.	1.9	5
56	The nucleation, growth and thermal stability of iron clusters on a TiO ₂ (110) surface. Applied Surface Science, 2017, 416, 144-151.	6.1	5
57	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
58	Î²-Carotene-Induced Alterations in Haemoglobin Affinity to O ₂ . Antioxidants, 2021, 10, 451.	5.1	5
59	STM studies of near-surface precipitation of gold in ultra-thin iron films on Au(). Surface Science, 2002, 507-510, 135-139.	1.9	4
60	Observation of the domain structure in Fe/Au superlattices with perpendicular anisotropy. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 1253-1254.	2.3	4
61	Surface Diffusion and Island Growth. Defect and Diffusion Forum, 0, 263, 177-182.	0.4	4
62	CO adsorption on Fe ₃ O ₄ (111) with regular and biphasic terminations. Applied Surface Science, 2020, 507, 145069.	6.1	4
63	Growth and characterization of ultrathin cobalt ferrite films on Pt(111). Applied Surface Science, 2022, 586, 152672.	6.1	4
64	Photoemission electronic states of epitaxially grown magnetite films. Journal of Alloys and Compounds, 2007, 442, 299-301.	5.5	3
65	The influence of the interlayer exchange coupling on the magnetism of an Fe(001) monolayer. Surface Science, 2007, 601, 4300-4304.	1.9	3
66	Perpendicular magnetic anisotropy and residual magnetic phases in gold-capped FeRh film on MgO(001). Journal of Magnetism and Magnetic Materials, 2020, 495, 165804.	2.3	3
67	High-temperature oxygen monolayer structures on W(110) revisited. Applied Surface Science, 2020, 528, 146712.	6.1	3
68	Low-frequency NMR line of ⁵⁵ Mn in the intermetallic compound Y ₆ Mn ₂₃ . Physics Letters, Section A: General, Atomic and Solid State Physics, 1996, 211, 377-381.	2.1	2
69	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
70	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
71	Epitaxial Î±-Mn(001) films on MgO(001). Thin Solid Films, 2014, 556, 137-141.	1.8	2
72	Au nanoparticles on Fe-modified rutile TiO ₂ (110): Dispersion, thermal stability, and CO adsorption. Journal of Chemical Physics, 2020, 152, 054712.	3.0	2

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73	Beating the limitation of the Néel temperature of FeO with antiferromagnetic proximity in FeO/CoO. Applied Physics Letters, 2022, 120, 072404.	3.3	2
74	Domain structures and magnetization processes of ultrathin ordered iron-gold alloys films. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E555-E556.	2.3	1
75	LEEM study of high-temperature oxygen structures on W(110) and their transformations. Applied Surface Science, 2017, 425, 314-320.	6.1	1
76	Graphene Blocks Oxidative Segregation of Iron Dissolved in Platinum: A Model Study. Advanced Materials Interfaces, 2021, 8, 2002172.	3.7	1
77	NMR Investigations of $Y_{Mn_2}H_x$ Hydrides*. Zeitschrift Fur Physikalische Chemie, 1992, 1, 507-512.	2.8	1
78	Magnetic Properties of Fe_3O_4 Films on Fe(001). Acta Physica Polonica A, 2007, 112, 1318-1325.	0.5	1
79	Nuclear magnetic resonance (NMR) and magnetic order in $Y_6Mn_{23}H_x$ hydrides. Journal of Magnetism and Magnetic Materials, 1999, 204, 176-184.	2.3	0
80	Spin polarization and interlayer coupling in Fe/FeAl/Fe sandwiches. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E971-E972.	2.3	0
81	Interactions of β^2 -Carotene with Red Blood Cells: Its Regulatory Role on Hemoglobin Functioning. Acta Physica Polonica A, 2021, 139, 283-287.	0.5	0