

Florian Bertram

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Time-resolved x-ray diffraction and photoelectron spectroscopy investigation of the reactive molecular beam epitaxy of Fe_3O_4 ultrathin films. <i>Physical Review B</i> , 2022, 105, .	1.1	8
2	Real-Time Monitoring the Growth of Epitaxial CoFe_3xO_4 Ultrathin Films on Nb-Doped $\text{SrTiO}_3(001)$ via Reactive Molecular Beam Epitaxy by Means of Operando HAXPES. <i>Materials</i> , 2022, 15, 2377.	1.3	0
3	Neural network analysis of neutron and X-ray reflectivity data: automated analysis using <code>mlreflect</code> , experimental errors and feature engineering. <i>Journal of Applied Crystallography</i> , 2022, 55, 362-369.	1.9	7
4	Cationic Ordering and Its Influence on the Magnetic Properties of Co-Rich Cobalt Ferrite Thin Films Prepared by Reactive Solid Phase Epitaxy on Nb-Doped $\text{SrTiO}_3(001)$. <i>Materials</i> , 2022, 15, 46.	1.3	1
5	Structural and magnetic investigation of the interfaces of $\text{Fe}_3\text{O}_4/\text{MgO}$ with and without NiO interlayer. <i>Physical Review B</i> , 2022, 105, .	1.1	0
6	Quantitative comparison of the magnetic proximity effect in Pt detected by XRMR and XMCD. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	9
7	Surface and subsurface damage in 14 MeV Au ion-irradiated diamond. <i>Journal of Applied Physics</i> , 2021, 130, 105303.	1.1	0
8	Interface Magnetization Phenomena in Epitaxial Thin $\text{Fe}_3\text{O}_4/\text{CoFe}_3\text{xO}_4$ Bilayers. <i>Journal of Physical Chemistry C</i> , 2021, 125, 23327-23337.	1.5	1
9	Catalytic Oxidation of CO on a Curved Pt(111) Surface: Simultaneous Ignition at All Facets through a Transient $\text{CO}^{\ominus}\text{O}^{\ominus}$ Complex**. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 20037-20043.	7.2	13
10	Catalytic Oxidation of CO on a Curved Pt(111) Surface: Simultaneous Ignition at All Facets through a Transient $\text{CO}^{\ominus}\text{O}^{\ominus}$ Complex**. <i>Angewandte Chemie</i> , 2020, 132, 20212-20218.	1.6	1
11	Effects of Post-deposition Annealing on Epitaxial $\text{CoO}/\text{Fe}_3\text{O}_4$ Bilayers on $\text{SrTiO}_3(001)$ and Formation of Thin High-Quality Cobalt Ferrite-like Films. <i>Journal of Physical Chemistry C</i> , 2020, 124, 23895-23904.	1.5	7
12	Real-time monitoring the growth of strained off-stoichiometric $\text{Ni}_x\text{Fe}_{3-x}\text{O}_4$ ultrathin films on $\text{MgO}(001)$. <i>Applied Physics Letters</i> , 2020, 117, 011601.	1.5	4
13	Structure of two-dimensional Fe_3O_4 . <i>Journal of Chemical Physics</i> , 2020, 152, 114705.	1.2	10
14	Spatially-resolved luminescence and crystal structure of single core-shell nanowires measured in the as-grown geometry. <i>Nanotechnology</i> , 2020, 31, 214002.	1.3	3
15	Cation- and lattice-site-selective magnetic depth profiles of ultrathin Fe_3O_4 films. <i>Physical Review B</i> , 2020, 102, 044407.	1.1	8
16	Enhanced magnetization of ultrathin NiFe_2O_4 films on SrTiO_3 related to cation disorder and anomalous strain. <i>Physical Review Materials</i> , 2020, 4, .	0.9	6
17	Beam damage of single semiconductor nanowires during X-ray nanobeam diffraction experiments. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 1200-1208.	1.0	4
18	Formation of ultrathin cobalt ferrite films by interdiffusion of $\text{Fe}_3\text{O}_4/\text{CoO}$ bilayers. <i>Physical Review B</i> , 2019, 100, .	1.1	15

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19	Surface oxide development on aluminum alloy 6063 during heat treatment. Surface and Interface Analysis, 2019, 51, 1214-1224.	0.8	4
20	Surface development of a brazing alloy during heat treatment—a comparison between UHV and APXPS. Journal of Physics Condensed Matter, 2018, 30, 024004.	0.7	2
21	Complete structural and strain analysis of single GaAs/(In,Ga)As/GaAs core-shell nanowires by means of in-plane and out-of-plane X-ray nanodiffraction. Journal of Applied Crystallography, 2018, 51, 1387-1395.	1.9	11
22	Catalytic Oxidation of Carbon Monoxide on a Curved Pd Crystal: Spatial Variation of Active and Poisoning Phases in Stationary Conditions. Journal of the American Chemical Society, 2018, 140, 16245-16252.	6.6	24
23	Impact of Strain and Morphology on Magnetic Properties of Fe ₃ O ₄ /NiO Bilayers Grown on Nb:SrTiO ₃ (001) and MgO(001). Materials, 2018, 11, 1122.	1.3	3
24	Dehydrogenation of Liquid Organic Hydrogen Carriers on Supported Pd Model Catalysts: Carbon Incorporation Under Operation Conditions. Catalysis Letters, 2018, 148, 2901-2910.	1.4	6
25	Combining synchrotron light with laser technology in catalysis research. Journal of Synchrotron Radiation, 2018, 25, 1389-1394.	1.0	9
26	Integration of electrochemical and synchrotron-based X-ray techniques for in-situ investigation of aluminum anodization. Electrochimica Acta, 2017, 241, 299-308.	2.6	19
27	Confining metal-halide perovskites in nanoporous thin films. Science Advances, 2017, 3, e1700738.	4.7	103
28	Anodization of Al(100), Al(111) and Al Alloy 6063 studied in situ with X-ray reflectivity and electrochemical impedance spectroscopy. Journal of Electroanalytical Chemistry, 2017, 799, 556-562.	1.9	21
29	Devitrification and hydrogen storage capacity of the eutectic Ca ₇₂ Mg ₂₈ metallic glass. Journal of Alloys and Compounds, 2017, 725, 916-922.	2.8	3
30	Fe Oxides on Ag Surfaces: Structure and Reactivity. Topics in Catalysis, 2017, 60, 492-502.	1.3	10
31	Strain Dependent Light-off Temperature in Catalysis Revealed by Planar Laser-Induced Fluorescence. ACS Catalysis, 2017, 7, 110-114.	5.5	36
32	1D silicon refractive lenses for surface scattering with high energy x-rays. AIP Conference Proceedings, 2016, , .	0.3	4
33	Surface development of an aluminum brazing sheet during heating studied by XPEEM and XPS. Materials Research Express, 2016, 3, 106506.	0.8	5
34	The structure-function relationship for alumina supported platinum during the formation of ammonia from nitrogen oxide and hydrogen in the presence of oxygen. Physical Chemistry Chemical Physics, 2016, 18, 10850-10855.	1.3	2
35	Static magnetic proximity effect in NiPt bilayers investigated by x-ray resonant magnetic reflectivity. Physical Review B, 2016, 93, .		
36	Modifying magnetic properties of ultra-thin magnetite films by growth on Fe pre-covered MgO(001). Journal of Applied Physics, 2015, 118, 113904.	1.1	16

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37	X-ray photoemission analysis of clean and carbon monoxide-chemisorbed platinum(111) stepped surfaces using a curved crystal. Nature Communications, 2015, 6, 8903.	5.8	48
38	Static Magnetic Proximity Effect in $\text{Pt}/\text{MnO}/\text{NiFeO}_4$. Physical Review Letters, 2015, 115, 097401.	2.9	6
39	Magnetic anisotropy related to strain and thickness of ultrathin iron oxide films on MgO(001). Materials Research Express, 2015, 2, 016101.	0.8	11
40	The thickness of native oxides on aluminum alloys and single crystals. Applied Surface Science, 2015, 349, 826-832.	3.1	174
41	Structure and morphology of epitaxially grown Fe ₃ O ₄ /NiO bilayers on MgO(001). Thin Solid Films, 2015, 589, 526-533.	0.8	9
42	Role of interface on La _{0.7} Sr _{0.3} MnO ₃ - Si junction properties. Applied Science Letters, 2015, 1, 54-58.	0.3	0
43	Ultrathin, epitaxial cerium dioxide on silicon. Applied Physics Letters, 2014, 104, .	1.5	22
44	<i>In situ</i> anodization of aluminum surfaces studied by x-ray reflectivity and electrochemical impedance spectroscopy. Journal of Applied Physics, 2014, 116, .	1.1	17
45	Reordering between tetrahedral and octahedral sites in ultrathin magnetite films grown on MgO(001). Journal of Applied Physics, 2013, 113, 184103.	1.1	19
46	A compact high vacuum heating chamber for <i>in-situ</i> x-ray scattering studies. Review of Scientific Instruments, 2012, 83, 083904.	0.6	4
47	X-ray diffraction study on size effects in epitaxial magnetite thin films on MgO(001). Journal Physics D: Applied Physics, 2012, 45, 395302.	1.3	21
48	Uniaxial magnetic anisotropy for thin Co films on glass studied by magneto-optic Kerr effect. Journal of Applied Physics, 2011, 109, .	1.1	13
49	<i>In-situ</i> x-ray diffraction studies on post-deposition vacuum-annealing of ultra-thin iron oxide films. Journal of Applied Physics, 2011, 110, .	1.1	18
50	Silicate-free growth of high-quality ultrathin cerium oxide films on Si(111). Physical Review B, 2011, 84, .	1.1	25
51	Analysis of periodic dislocation networks using x-ray diffraction and extended finite element modeling. Applied Physics Letters, 2010, 96, 131905.	1.5	16
52	Epitaxial Growth of Bi(111) on Si(001). E-Journal of Surface Science and Nanotechnology, 2009, 7, 441-447.	0.1	1
53	Effect of amorphous interface layers on crystalline thin-film x-ray diffraction. Physical Review B, 2009, 79, .	1.1	11
54	Postdeposition annealing induced transition from hexagonal Pr ₂ O ₃ to cubic Pr ₂ O ₃ films on Si(111). Journal of Applied Physics, 2009, 105, .	1.1	18

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55	Structural phase transition of ultra thin PrO ₂ films on Si(111). Journal of Physics Condensed Matter, 2009, 21, 175408.	0.7	10
56	Epitaxy of single crystalline PrO ₂ films on Si(111). Applied Physics Letters, 2008, 93, 032905.	1.5	25