

Maciej O Liedke

List of Publications by Year in descending order

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citations

257101

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121
all docs

121
docs citations

121
times ranked

2515
citing authors

#	ARTICLE	IF	CITATIONS
1	Exploring point defects and trap states in undoped SrTiO ₃ single crystals. Journal of the European Ceramic Society, 2022, 42, 1510-1521.	2.8	14
2	Influence of surface activation on the microporosity of PEâ€CVD and PEâ€ALD SiO ₂ thin films on PDMS. Plasma Processes and Polymers, 2022, 19, .	1.6	5
3	Manipulating magnetic and magnetoresistive properties by oxygen vacancy complexes in GCMO thin films. Journal of Physics Condensed Matter, 2022, 34, 155804.	0.7	0
4	Strongly Enhanced Growth of High-Temperature Superconducting Films on an Advanced Metallic Template. Crystal Growth and Design, 2022, 22, 2097-2104.	1.4	2
5	Defect Nanostructure and its Impact on Magnetism of Cr ₂ O ₃ Thin Films. Small, 2022, 18, e2201228.	5.2	13
6	The mechanism behind the high radiation tolerance of Feâ€Cr alloys. Journal of Applied Physics, 2022, 131, .	1.1	4
7	The impact of high hydrostatic pressure maintenance after high-pressure torsion on phenomena during high hydrostatic pressure annealing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 840, 142874.	2.6	2
8	Ion Intercalation in Lanthanum Strontium Ferrite for Aqueous Electrochemical Energy Storage Devices. ACS Applied Materials & Interfaces, 2022, 14, 18486-18497.	4.0	4
9	Magnetism and Magnetoelectricity of Textured Polycrystalline Bulk Cr ₂ O ₃ Sintered in Conditions Far out of Equilibrium. ACS Applied Electronic Materials, 2022, 4, 2943-2952.	2.0	5
10	Modification of Porous Ultralow- <i>k</i> Film by Vacuum Ultraviolet Emission. ACS Applied Electronic Materials, 2022, 4, 2760-2776.	2.0	3
11	Unravelling the Origin of Ultraâ€Low Conductivity in SrTiO ₃ Thin Films: Sr Vacancies and Ti on Aâ€Sites Cause Fermi Level Pinning. Advanced Functional Materials, 2022, 32, .	7.8	5
12	Nanoscaled LiMn ₂ O ₄ for Extended Cycling Stability in the 3 V Plateau. ACS Applied Materials & Interfaces, 2022, 14, 33438-33446.	4.0	6
13	Oxidation of amorphous HfNbTaTiZr high entropy alloy thin films prepared by DC magnetron sputtering. Journal of Alloys and Compounds, 2021, 869, 157978.	2.8	24
14	Zinc Oxide Defect Microstructure and Surface Chemistry Derived from Oxidation of Metallic Zinc: Thinâ€Film Transistor and Sensor Behavior of ZnO Films and Rods. Chemistry - A European Journal, 2021, 27, 5422-5431.	1.7	8
15	Mapping the Structure of Oxygen-Doped Wurtzite Aluminum Nitride Coatings from <i>Ab Initio</i> Random Structure Search and Experiments. ACS Applied Materials & Interfaces, 2021, 13, 5762-5771.	4.0	3
16	Cation non-stoichiometry in Fe:SrTiO ₃ thin films and its effect on the electrical conductivity. Nanoscale Advances, 2021, 3, 6114-6127.	2.2	4
17	An experimental investigation of light emission produced in the process of positronium formation in matter. Physical Chemistry Chemical Physics, 2021, 23, 11264-11271.	1.3	2
18	Solution synthesis and dielectric properties of alumina thin films: understanding the role of the organic additive in film formation. Dalton Transactions, 2021, 50, 8811-8819.	1.6	0

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19	Zinc Oxide Defect Microstructure and Surface Chemistry Derived from Oxidation of Metallic Zinc. Thin Film Transistor and Sensoric Behaviour of ZnO Films and Rods. Chemistry - A European Journal, 2021, 27, 5312-5312.	1.7	0
20	Ultrathin Co films with Pt and Au coversâ€”magnetic and structural properties driven by Ga ⁺ ion irradiation. New Journal of Physics, 2021, 23, 023015.	1.2	5
21	Tuned AFMâ€”FM coupling by the formation of vacancy complex in Gd _{0.6} Ca _{0.4} MnO ₃ thin film lattice. Journal of Physics Condensed Matter, 2021, 33, 255803.	0.7	4
22	Magneto-ionics in Single-Layer Transition Metal Nitrides. ACS Applied Materials & Interfaces, 2021, 13, 30826-30834.	4.0	13
23	A new system for real-time data acquisition and pulse parameterization for digital positron annihilation lifetime spectrometers with high repetition rates. Journal of Instrumentation, 2021, 16, P08001.	0.5	25
24	Effect of roughness and nanoporosity on optical properties of black and reflective Al films prepared by magnetron sputtering. Journal of Alloys and Compounds, 2021, 872, 159744.	2.8	11
25	Critical Role of Electrical Resistivity in Magnetoionics. Physical Review Applied, 2021, 16, .	1.5	6
26	Formation and time dynamics of hydrogen-induced vacancies in nickel. Acta Materialia, 2021, 219, 117264.	3.8	13
27	Phase evolution of Te-hyperdoped Si upon furnace annealing. Applied Surface Science, 2021, 567, 150755.	3.1	6
28	Exploring the anti-site disorder and oxygen vacancies in Sr ₂ FeMoO ₇ Defect Characterization Using Positron Annihilation Spectroscopy on Laser-Ablated Surfaces. Jom, 2021, 73, 4221.	1.0	9
29	Defect Characterization Using Positron Annihilation Spectroscopy on Laser-Ablated Surfaces. Jom, 2021, 73, 4221.	0.9	0
30	Radiation damage evolution in pure W and W-Cr-Hf alloy caused by 5Â MeV Au ions in a broad range of dpa. Nuclear Materials and Energy, 2021, 29, 101085.	0.6	3
31	Light-driven permanent transition from insulator to conductor. Physical Review B, 2021, 104, .	1.1	6
32	Positron annihilation analysis of nanopores and growth mechanism of oblique angle evaporated TiO ₂ and SiO ₂ thin films and multilayers. Microporous and Mesoporous Materials, 2020, 295, 109968.	2.2	8
33	Tailored fabrication of iridium nanoparticle-sensitized titanium oxynitride nanotubes for solar-driven water splitting: experimental insights on the photocatalyticâ€”activityâ€”defects relationship. Catalysis Science and Technology, 2020, 10, 801-809.	2.1	33
34	Improvement of luminescence properties of n-GaN using TEGa precursor. Journal of Crystal Growth, 2020, 531, 125383.	0.7	6
35	Thermal kinetics of free volume in porous spin-on dielectrics: Exploring the network- and pore-properties. Microporous and Mesoporous Materials, 2020, 308, 110457.	2.2	4
36	Voltage-driven motion of nitrogen ions: a new paradigm for magneto-ionics. Nature Communications, 2020, 11, 5871.	5.8	42

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37	A new mechanism for void-cascade interaction from nondestructive depth-resolved atomic-scale measurements of ion irradiation-induced defects in Fe. <i>Science Advances</i> , 2020, 6, eaba8437.	4.7	32
38	Vacancy-Hydrogen Interaction in Niobium during Low-Temperature Baking. <i>Scientific Reports</i> , 2020, 10, 8300.	1.6	17
39	Magnetic response of FeRh to static and dynamic disorder. <i>RSC Advances</i> , 2020, 10, 14386-14395.	1.7	21
40	Measurement and Simulation of Vacancy Formation in 2-MeV Self-irradiated Pure Fe. <i>Jom</i> , 2020, 72, 2436-2444.	0.9	1
41	A detailed ellipsometric porosimetry and positron annihilation spectroscopy study of porous organosilicate-glass films with various ratios of methyl terminal and ethylene bridging groups. <i>Microporous and Mesoporous Materials</i> , 2020, 306, 110434.	2.2	11
42	Boosting Room-Temperature Magnetoionics in a Non-Magnetic Oxide Semiconductor. <i>Advanced Functional Materials</i> , 2020, 30, 2003704.	7.8	18
43	A secret luminescence killer in deepest QWs of InGaN/GaN multiple quantum well structures. <i>Journal of Crystal Growth</i> , 2020, 536, 125579.	0.7	1
44	Chemical manipulation of hydrogen induced high p-type and n-type conductivity in Ga ₂ O ₃ . <i>Scientific Reports</i> , 2020, 10, 6134.	1.6	65
45	Characterisation of micropores in plasma deposited SiO _x films by means of positron annihilation lifetime spectroscopy. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 475205.	1.3	7
46	Point and extended defects in heteroepitaxial δ -Ga ₂ O ₃ films. <i>Physical Review Materials</i> , 2020, 4, .	0.9	12
47	Positron Structural Analysis of ScN Films Deposited on MgO Substrate. <i>Acta Physica Polonica A</i> , 2020, 137, 209-214.	0.2	3
48	Investigation of Optical Properties and Defects Structure of Rare Earth (Sm, Gd, Ho) Doped Zinc Oxide Thin Films Prepared by Pulsed Laser Deposition. <i>Acta Physica Polonica A</i> , 2020, 137, 215-218.	0.2	2
49	Defects in Thin Layers of High Entropy Alloy HfNbTaTiZr. <i>Acta Physica Polonica A</i> , 2020, 137, 219-221.	0.2	3
50	Microstructure and Nanoscopic Porosity in Black Pd Films. <i>Acta Physica Polonica A</i> , 2020, 137, 222-226.	0.2	5
51	Study of Nanoscopic Porosity in Black Metals by Positron Annihilation Spectroscopy. <i>Acta Physica Polonica B</i> , 2020, 51, 383.	0.3	5
52	Dissolution of donor-vacancy clusters in heavily doped n-type germanium. <i>New Journal of Physics</i> , 2020, 22, 123036.	1.2	4
53	Depth selective magnetic phase coexistence in FeRh thin films. <i>APL Materials</i> , 2020, 8, .	2.2	15
54	Quenched-in Vacancies and Hardening of Fe-Al Intermetallics. <i>Acta Physica Polonica A</i> , 2020, 137, 255-259.	0.2	0

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55	Fundamental studies on the curing behaviour of porous CVD and spin-on dielectrics. , 2020, , .		0
56	Flexible IGZO TFTs and Their Suitability for Space Applications. IEEE Journal of the Electron Devices Society, 2019, 7, 1182-1190.	1.2	14
57	On defectsâ€™ role in enhanced perpendicular magnetic anisotropy in Pt/Co/Pt, induced by ion irradiation. Journal of Physics Condensed Matter, 2019, 31, 185801.	0.7	7
58	Vacancy complexes in nonequilibrium germanium-tin semiconductors. Applied Physics Letters, 2019, 114, .	1.5	30
59	Depth Resolved Measurements of Atomic Scale Defects in Ion Irradiated Fe Alloys. Microscopy and Microanalysis, 2019, 25, 1546-1547.	0.2	1
60	Enhanced flux pinning isotropy by tuned nanosized defect network in superconducting YBa ₂ Cu ₃ O _{6+x} films. Scientific Reports, 2019, 9, 15425.	1.6	24
61	The role of open-volume defects in the annihilation of antisites in a B2-ordered alloy. Acta Materialia, 2019, 176, 167-176.	3.8	14
62	Formation of heavy clusters in ion-irradiated compounds. Vacuum, 2019, 164, 149-152.	1.6	4
63	Ion-induced processes in polymer composite materials: Positron annihilation spectroscopy in combination with UV-Vis absorption and Raman spectroscopy. AIP Conference Proceedings, 2019, , .	0.3	1
64	Porosity in Ce ⁴⁺ and Mg ²⁺ doped zirconia nanomaterials. AIP Conference Proceedings, 2019, , .	0.3	0
65	Microstructure, defect structure and hydrogen trapping in zirconium alloy Zr-1Nb treated by plasma immersion Ti ion implantation and deposition. Journal of Alloys and Compounds, 2018, 732, 80-87.	2.8	17
66	Low Temperature and Radiation Stability of Flexible IGZO TFTs and their Suitability for Space Applications. , 2018, , .		1
67	Voltage-Controlled ONâ€™OFF Ferromagnetism at Room Temperature in a Single Metal Oxide Film. ACS Nano, 2018, 12, 10291-10300.	7.3	57
68	Positron annihilation lifetime and Doppler broadening spectroscopy at the ELBE facility. AIP Conference Proceedings, 2018, , .	0.3	60
69	Metal oxide double layer capacitors by electrophoretic deposition of metal oxides. Fabrication, electrical characterization and defect analysis using positron annihilation spectroscopy. Journal of Materials Chemistry C, 2018, 6, 9501-9509.	2.7	2
70	Purely antiferromagnetic magnetoelectric random access memory. Nature Communications, 2017, 8, 13985.	5.8	217
71	Engineering of optical and electrical properties of ZnO by non-equilibrium thermal processing: The role of zinc interstitials and zinc vacancies. Journal of Applied Physics, 2017, 122, 035303.	1.1	17
72	Probing the Impact of the Initiator Layer on Grafted-from Polymer Brushes: A Positron Annihilation Spectroscopy Study. Macromolecules, 2017, 50, 5574-5581.	2.2	18

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73	Positron annihilation lifetime spectroscopy at a superconducting electron accelerator. Journal of Physics: Conference Series, 2017, 791, 012004.	0.3	20
74	Positronium Probing of Pores in Zirconia Nanopowders. Acta Physica Polonica A, 2017, 132, 1564-1568.	0.2	1
75	Positronium Formation in Nanostructured Metals. Acta Physica Polonica A, 2017, 132, 1579-1584.	0.2	1
76	Formation of Co nanodisc with enhanced perpendicular magnetic anisotropy driven by Ga^+ ion irradiation on Pt/Co/Pt films. Physical Review B, 2016, 94, .	1.1	11
77	ZnO Luminescence and scintillation studied via photoexcitation, X-ray excitation and gamma-induced positron spectroscopy. Scientific Reports, 2016, 6, 31238.	1.6	45
78	Open volume defects and magnetic phase transition in Fe ₆₀ Al ₄₀ transition metal aluminide. Journal of Applied Physics, 2015, 117, .	1.1	61
79	Synthesis and characterization of MnAs and MnP nanoclusters embedded in III-V semiconductors. Materials Research Express, 2014, 1, 026105.	0.8	9
80	III-V/Si on silicon-on-insulator platform for hybrid nanoelectronics. Journal of Applied Physics, 2014, 115, .	1.1	12
81	Effect of Ga ⁺ irradiation in molecular-beam epitaxy grown Pt/Co/Pt thin films studied by magneto-optic spectroscopy. Journal of Applied Physics, 2014, 115, 17C106.	1.1	7
82	Ion irradiation induced enhancement of out-of-plane magnetic anisotropy in ultrathin Co films. Journal of Applied Physics, 2013, 113, 17C109.	1.1	16
83	Conductivity type and crystal orientation of GaAs nanocrystals fabricated in silicon by ion implantation and flash lamp annealing. Nuclear Instruments & Methods in Physics Research B, 2013, 312, 104-109.	0.6	2
84	Crossover in the surface anisotropy contributions of ferromagnetic films on rippled Si surfaces. Physical Review B, 2013, 87, .	1.1	61
85	Ga ⁺ ion irradiation-induced changes in magnetic anisotropy of a Pt/Co/Pt thin film studied by X-ray magnetic circular dichroism. EPJ Web of Conferences, 2013, 40, 08002.	0.1	1
86	Magnetization dynamics of buckling domain structures in patterned thin films. Physical Review B, 2012, 86, .	1.1	9
87	Tailoring of magnetism in Pt/Co/Pt ultrathin films by ion irradiation. Physical Review B, 2012, 85, .	1.1	64
88	Perpendicular magnetic anisotropy in a Pt/Co/Pt ultrathin film arising from a lattice distortion induced by ion irradiation. Physical Review B, 2012, 86, .	1.1	41
89	Effect of Ga ⁺ irradiation on the magneto-optic spectra of Pt/Co/Pt sandwiches. Thin Solid Films, 2012, 520, 7169-7172.	0.8	7
90	InP nanocrystals on silicon for optoelectronic applications. Nanotechnology, 2012, 23, 485204.	1.3	19

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109	Domain structure during magnetization reversal of PtMn/CoFe exchange bias micropatterned lines. Journal of Applied Physics, 2006, 100, 043918.	1.1	10
110	Domain structure of magnetically micro-patterned PtMn/NiFe exchange bias bilayers. IEEE Transactions on Magnetics, 2005, 41, 3610-3612.	1.2	10
111	Reflectivity characterisation of ion irradiated exchange bias FeMn/FeNi films. Journal of Magnetism and Magnetic Materials, 2005, 286, 225-228.	1.0	3
112	Analysis of the Ni$^{2+}$ s ³⁵ g _{1/2} overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/x	1.0	0
113	Ion beam induced destabilization of icosahedral structures in gas phase prepared FePt nanoparticles. Journal of Applied Physics, 2005, 97, 10N112.	1.1	29
114	Magnetic anisotropy and domain patterning of amorphous films by He-ion irradiation. Applied Physics Letters, 2005, 86, 162502.	1.5	53
115	FMR study of ultrathin Co magnetic films on vicinal Si(1 1 1) substrates. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E911-E912.	1.0	3
116	Control of Interlayer Exchange Coupling in Fe/Cr/Fe Trilayers by Ion Beam Irradiation. Physical Review Letters, 2003, 90, 097201.	2.9	58
117	Application of Positron Beams to the Investigation of Memristive Materials and Diluted Magnetic Semiconductors. Defect and Diffusion Forum, 0, 331, 235-251.	0.4	0