Michael Lorenz

List of Publications by Year
in descending order

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365 papers	12,858 citations	31976 53 h-index	33894 99 g-index
370 all docs	370 docs citations	370 times ranked	11063 citing authors

#	Article	IF	Citations
1	High electron mobility of epitaxial ZnO thin films on c-plane sapphire grown by multistep pulsed-laser deposition. Applied Physics Letters, 2003, 82, 3901-3903.	3.3	596
2	Raman scattering in ZnO thin films doped with Fe, Sb, Al, Ga, and Li. Applied Physics Letters, 2003, 83, 1974-1976.	3.3	595
3	Infrared dielectric functions and phonon modes of high-quality ZnO films. Journal of Applied Physics, 2003, 93, 126-133.	2.5	590
4	Zinc oxide nanorod based photonic devices: recent progress in growth, light emitting diodes and lasers. Nanotechnology, 2009, 20, 332001.	2.6	572
5	Room temperature ferromagnetism in ZnO films due to defects. Applied Physics Letters, 2008, 92, 082508.	3.3	329
6	Whispering Gallery Modes in Nanosized Dielectric Resonators with Hexagonal Cross Section. Physical Review Letters, 2004, 93, 103903.	7.8	291
7	Defect-induced magnetic order in pure ZnO films. Physical Review B, 2009, 80, .	3.2	274
8	The 2016 oxide electronic materials and oxide interfaces roadmap. Journal Physics D: Applied Physics, 2016, 49, 433001.	2.8	266
9	Transparent flexible thermoelectric material based on non-toxic earth-abundant p-type copper iodide thin film. Nature Communications, 2017, 8, 16076.	12.8	233
10	Whispering gallery mode lasing in zinc oxide microwires. Applied Physics Letters, 2008, 92, 241102.	3.3	192
11	MgxZn1â^'xO(0â©½x<0.2) nanowire arrays on sapphire grown by high-pressure pulsed-laser deposition. Applied Physics Letters, 2005, 86, 143113.	3.3	188
12	Room temperature ferromagnetism in carbon-implanted ZnO. Applied Physics Letters, 2008, 93, .	3.3	188
13	Room-temperature synthesized copper iodide thin film as degenerate p-type transparent conductor with a boosted figure of merit. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 12929-12933.	7.1	188
14	Cuprous iodide - a p-type transparent semiconductor: history and novel applications. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 1671-1703.	1.8	178
15	Dielectric functions (1 to 5 eV) of wurtzite MgxZn1â^'xOâ€Š(xâ©½0.29) thin films. Applied Physics Letters, 2003, 82, 2260-2262.	3.3	165
16	Mean barrier height of Pd Schottky contacts on ZnO thin films. Applied Physics Letters, 2006, 88, 092102.	3.3	154
17	Two-dimensional electron gas density in Al1â^'xInxN/AlN/GaN heterostructures (0.03â‰¤xâ‰¤0.23). Journal of Applied Physics, 2008, 103, .	2.5	154
18	Optical and electrical properties of epitaxial (Mg,Cd)xZn1â^'xO, ZnO, and ZnO:(Ga,Al) thin films on c-plane sapphire grown by pulsed laser deposition. Solid-State Electronics, 2003, 47, 2205-2209.	1.4	140

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19	Recent Progress on ZnOâ€Based Metalâ€Semiconductor Fieldâ€Effect Transistors and Their Application in Transparent Integrated Circuits. Advanced Materials, 2010, 22, 5332-5349.	21.0	140
20	Defects in virgin andN+-implanted ZnO single crystals studied by positron annihilation, Hall effect, and deep-level transient spectroscopy. Physical Review B, 2006, 74, .	3.2	135
21	Transparent semiconducting oxides: materials and devices. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 1437-1449.	1.8	129
22	Phosphorus acceptor doped ZnO nanowires prepared by pulsed-laser deposition. Nanotechnology, 2007, 18, 455707.	2.6	109
23	Lateral homogeneity of Schottky contacts on n-type ZnO. Applied Physics Letters, 2004, 84, 79-81.	3.3	108
24	Tin-assisted heteroepitaxial PLD-growth of Îº-Ga2O3 thin films with high crystalline quality. APL Materials, 2019, 7, .	5.1	98
25	Largeâ€area doubleâ€side pulsed laser deposition of YBa2Cu3O7âˆ'x thin films on 3â€in. sapphire wafers. Applied Physics Letters, 1996, 68, 3332-3334.	3.3	96
26	Multiferroic BaTiO₃â€“BiFeO₃composite thin films and multilayers: strain engineering and magnetoelectric coupling. Journal Physics D: Applied Physics, 2014, 47, 135303.	2.8	96
27	Room-temperature Domain-epitaxy of Copper Iodide Thin Films for Transparent CuI/ZnO Heterojunctions with High Rectification Ratios Larger than 109. Scientific Reports, 2016, 6, 21937.	3.3	91
28	Cuprous iodide - a p-type transparent semiconductor: history and novel applications (Phys. Status) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.8	90
29	Anionic and cationic substitution in ZnO. Progress in Solid State Chemistry, 2009, 37, 153-172.	7.2	85
30	Room temperature ferromagnetism in Mn-doped ZnO films mediated by acceptor defects. Applied Physics Letters, 2007, 91, .	3.3	84
31	Metal-insulator transition in Co-dopedZnO: Magnetotransport properties. Physical Review B, 2006, 73, .	3.2	83
32	Infrared optical properties of MgxZn1âˆ'xO thin films (0â©½xâ©½1): Long-wavelength optical phonons and dielectric constants. Journal of Applied Physics, 2006, 99, 113504.	2.5	82
33	Spatially Inhomogeneous Impurity Distribution in ZnO Micropillars. Nano Letters, 2004, 4, 797-800.	9.1	78
34	Whispering gallery modes in zinc oxide microâ€and nanowires. Physica Status Solidi (B): Basic Research, 2010, 247, 1282-1293.	1.5	77
35	Lattice parameters and Raman-active phonon modes of Î²-(AlxGa1âˆ'x)2O3. Journal of Applied Physics, 2015, 117, .	2.5	75
36	Properties of reactively sputtered Ag, Au, Pd, and Pt Schottky contacts on n-type ZnO. Journal of Vacuum Science & Technology B, 2009, 27, 1769.	1.3	73

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37	Occurrence of Rotation Domains in Heteroepitaxy. Physical Review Letters, 2010, 105, 146102.	7.8	72
38	Electrical and magnetic properties of RE-doped ZnO thin films (RE = Gd, Nd). Superlattices and Microstructures, 2007, 42, 231-235.	3.1	71
39	Deep acceptor states in ZnO single crystals. Applied Physics Letters, 2006, 89, 092122.	3.3	67
40	UV optical properties of ferromagnetic Mn-doped ZnO thin films grown by PLD. Thin Solid Films, 2005, 486, 117-121.	1.8	66
41	ZnO metal-semiconductor field-effect transistors with Ag-Schottky gates. Applied Physics Letters, 2008, 92, 192108.	3.3	66
42	Infrared dielectric functions and phonon modes of wurtzite MgxZn1â^'xOâ€,(xâ©½0.2). Applied Physics Letters, 2002, 81, 2376-2378.	3.3	65
43	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>s</mml:mi><mml:mtext>â^'</mml:mtext><mml:mi>d</mml:mi></mml:mrow></mml:math>ex interaction induced magnetoresistance in magnetic ZnO. Physical Review B, 2007, 76, .	3.2	65
44	Defect-induced ferromagnetism in undoped and Mn-doped zirconia thin films. Physical Review B, 2010, 82, .	3.2	65
45	Structural characterization of a-plane Zn1â^'xCdxO (0â©½xâ©½0.085) thin films grown by metal-organic vapor phase epitaxy. Journal of Applied Physics, 2006, 99, 023514.	2.5	61
46	Spin Manipulation in Co-Doped ZnO. Physical Review Letters, 2008, 101, 076601.	7.8	61
47	Correlation of magnetoelectric coupling in multiferroic BaTiO3-BiFeO3 superlattices with oxygen vacancies and antiphase octahedral rotations. Applied Physics Letters, 2015, 106, .	3.3	61
48	Electron paramagnetic resonance ofZn1â^'xMnxOthin films and single crystals. Physical Review B, 2005, 72, .	3.2	60
49	Lattice parameters and Raman-active phonon modes of (InxGa1â€“x)2O3 for xâ€‰<â€‰0.4. Journal of Applied Physics, 2014, 116, .	2.5	59
50	Hard amorphous CSi x N y thin films deposited by RF nitrogen plasma assisted pulsed laser ablation of mixed graphite/Si 3 N 4 -targets. Thin Solid Films, 1999, 348, 103-113.	1.8	57
51	Structural and optical properties of (In,Ga)₂O₃ thin films and characteristics of Schottky contacts thereon. Semiconductor Science and Technology, 2015, 30, 024005.	2.0	56
52	Refractive indices and band-gap properties of rocksalt MgxZn1â^'xO (0.68â©½xâ©½1). Journal of Applied Physics, 2006, 99, 123701.	2.5	55
53	High-quality Y-Ba-Cu-O thin films by PLD-ready for market applications. IEEE Transactions on Applied Superconductivity, 2001, 11, 3209-3212.	1.7	54
54	Temperature-dependent dielectric and electro-optic properties of a ZnO-BaTiO3-ZnO heterostructure grown by pulsed-laser deposition. Applied Physics Letters, 2005, 86, 091904.	3.3	52

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55	Low-temperature processed Schottky-gated field-effect transistors based on amorphous gallium-indium-zinc-oxide thin films. Applied Physics Letters, 2010, 97, .	3.3	52
56	Resistive hysteresis and interface charge coupling in BaTiO3-ZnO heterostructures. Applied Physics Letters, 2009, 94, 142904.	3.3	51
57	Indium Gallium Oxide Alloys: Electronic Structure, Optical Gap, Surface Space Charge, and Chemical Trends within Common-Cation Semiconductors. ACS Applied Materials & Interfaces, 2021, 13, 2807-2819.	8.0	50
58	Microstructure defects in YBCO thin films. Physica C: Superconductivity and Its Applications, 1995, 243, 281-293.	1.2	49
59	Luminescence and surface properties of MgxZn1â^'xO thin films grown by pulsed laser deposition. Journal of Applied Physics, 2007, 101, 083521.	2.5	49
60	Donor-like defects in ZnO substrate materials and ZnO thin films. Applied Physics A: Materials Science and Processing, 2007, 88, 135-139.	2.3	49
61	Fe-implanted ZnO: Magnetic precipitates versus dilution. Journal of Applied Physics, 2008, 103, .	2.5	49
62	Cathodoluminescence of selected single ZnO nanowires on sapphire. Annalen Der Physik, 2004, 13, 39-42.	2.4	48
63	Mott variable-range hopping and weak antilocalization effect in heteroepitaxial Na<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>IrO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math> thin films. Physical Review B, 2013, 88, .	3.2	48
64	Dielectric function in the spectral range (0.5â€“8.5)eV of an (Al_x) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 Td (Ga1 Physics, 2015, 117, 165307.	2.5	48
65	pâ€type conducting ZnO:P microwires prepared by direct carbothermal growth. Physica Status Solidi - Rapid Research Letters, 2008, 2, 37-39.	2.4	47
66	Effect of rare-earth ion doping on the multiferroic properties of BiFeO₃thin films grown epitaxially on SrTiO₃(1â€‰0â€‰0). Journal Physics D: Applied Physics, 2013, 46, 175006.	2.8	46
67	Ordered growth of tilted ZnO nanowires: morphological, structural and optical characterization. Nanotechnology, 2007, 18, 195303.	2.6	45
68	Pulsed Laser Deposition of ZnO-Based Thin Films. Springer Series in Materials Science, 2008, , 303-357.	0.6	44
69	Homogeneous core/shell ZnO/ZnMgO quantum well heterostructures on vertical ZnO nanowires. Nanotechnology, 2009, 20, 305701.	2.6	44
70	UVâ€“VUV spectroscopic ellipsometry of ternary MgxZn1â^'xO (0â‰‰xâ‰‰0.53) thin films. Thin Solid Films, 2004, 455-456, 500-504.	1.8	43
71	Magnetoresistance and anomalous Hall effect in magnetic ZnO films. Journal of Applied Physics, 2007, 101, 063918.	2.5	43
72	Ferromagnetic transition metal implanted ZnO: A diluted magnetic semiconductor?. Vacuum, 2009, 83, S13-S19.	3.5	42

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73	Side-selective and non-destructive determination of the critical current density of double-sided superconducting thin films. Physica C: Superconductivity and Its Applications, 1996, 265, 335-340.	1.2	41
74	Homoepitaxy of ZnO by pulsed-laser deposition. Physica Status Solidi - Rapid Research Letters, 2007, 1, 129-131.	2.4	41
75	Selfâ€organized growth of ZnOâ€based nanoâ€and microstructures. Physica Status Solidi (B): Basic Research, 2010, 247, 1265-1281.	1.5	41
76	High mobility, highly transparent, smooth, p-type CuI thin films grown by pulsed laser deposition. APL Materials, 2020, 8, .	5.1	41
77	Excitonâ€“polariton formation at room temperature in a planar ZnO resonator structure. Applied Physics B: Lasers and Optics, 2008, 93, 331-337.	2.2	40
78	Room-temperature ferromagnetic Mn-alloyed ZnO films obtained by pulsed laser deposition. Journal of Magnetism and Magnetic Materials, 2006, 307, 212-221.	2.3	38
79	Paramagnetism in Co-doped ZnO films. Journal Physics D: Applied Physics, 2009, 42, 085001.	2.8	38
80	Interface polarization coupling in piezoelectric-semiconductor ferroelectric heterostructures. Physical Review B, 2010, 81, .	3.2	38
81	Visible-blind and solar-blind ultraviolet photodiodes based on (InxGa1â^'x)2O3. Applied Physics Letters, 2016, 108, .	3.3	38
82	Epitaxial stabilization of single phase Î²-(InxGa1â^'x)2O3 thin films up to x = 0.28 on c-sapphire and Î²-Ga2O3(001) templates by tin-assisted VCCS-PLD. APL Materials, 2019, 7, .	5.1	38
83	ac susceptibility of structuredYBa2Cu3O7thin films in transverse magnetic ac fields. Physical Review B, 1997, 55, 11816-11822.	3.2	37
84	Spatial fluctuations of optical emission from single ZnO/MgZnO nanowire quantum wells. Nanotechnology, 2008, 19, 115202.	2.6	37
85	Pulsed-laser deposition and characterization of ZnO nanowires with regular lateral arrangement. Applied Physics A: Materials Science and Processing, 2007, 88, 31-34.	2.3	36
86	A comparison between ZnO films doped with 3d and 4f magnetic ions. Thin Solid Films, 2007, 515, 8761-8763.	1.8	36
87	Microcracks observed in epitaxial thin films of YBa2 Cu3O7â€“Î´ and GdBa2Cu3O7â€“Î´. Physica Status Solidi A, 1995, 150, 381-394.	1.7	35
88	Two-dimensional ZnO:Al nanosheets and nanowalls obtained by Al2O3-assisted carbothermal evaporation. Thin Solid Films, 2005, 486, 191-194.	1.8	35
89	Structural and magnetic properties of epitaxial magnetite thin films prepared by pulsed laser deposition. Journal of Magnetism and Magnetic Materials, 1995, 140-144, 725-726.	2.3	34
90	25 years of pulsed laser deposition. Journal Physics D: Applied Physics, 2014, 47, 030301.	2.8	34

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91	Rectifying semiconductor-ferroelectric polarization loops and offsets in Ptâ€“BaTiO3â€“ZnOâ€“Pt thin film capacitor structures. Thin Solid Films, 2005, 486, 153-157.	1.8	33
92	Electron paramagnetic resonance in transition metal-doped ZnO nanowires. Journal of Applied Physics, 2007, 101, 024324.	2.5	33
93	Control of interface abruptness of polar MgZnO/ZnO quantum wells grown by pulsed laser deposition. Applied Physics Letters, 2010, 97, .	3.3	33
94	Exchange anisotropy in epitaxial Fe3O4/CoO and Fe3O4/CoxFe3â^'xO4 bilayers grown by pulsed laser deposition. Journal of Applied Physics, 1998, 84, 5097-5104.	2.5	32
95	Infrared dielectric functions and crystal orientation of a-plane ZnO thin films on r-plane sapphire determined by generalized ellipsometry. Thin Solid Films, 2004, 455-456, 161-166.	1.8	32
96	Fast, high-efficiency, and homogeneous room-temperature cathodoluminescence of ZnO scintillator thin films on sapphire. Applied Physics Letters, 2006, 89, 243510.	3.3	32
97	Formation of a two-dimensional electron gas in ZnO/MgZnO single heterostructures and quantum wells. Thin Solid Films, 2009, 518, 1048-1052.	1.8	32
98	Optical properties of homo- and heteroepitaxial single quantum wells grown by pulsed-laser deposition. Journal of Luminescence, 2010, 130, 520-526.	3.1	32
99	Microstructure and microwave surface resistance of typical YBaCuO thin films on sapphire and LaAlO3. Superconductor Science and Technology, 1999, 12, 366-375.	3.5	31
100	Optical and structural properties of MgZnO/ZnO hetero- and double heterostructures grown by pulsed laser deposition. Applied Physics A: Materials Science and Processing, 2007, 88, 99-104.	2.3	31
101	Properties of Schottky Barrier Diodes on (In_xGa_{1â€“x})₂O₃ for 0.01 â‰¤ x â‰¤ 0.85 Determined by a Combinatorial Approach. ACS Combinatorial Science, 2015, 17, 710-715.	3.8	31
102	Large-area and double-sided pulsed laser deposition of Y-Ba-Cu-O thin films applied to HTSC microwave devices. IEEE Transactions on Applied Superconductivity, 1997, 7, 1240-1243.	1.7	30
103	Electronic properties of defects in pulsed-laser deposition grown ZnO with levels at 300 and 370meV below the conduction band. Physica B: Condensed Matter, 2007, 401-402, 378-381.	2.7	30
104	Local lattice distortions in oxygen deficient Mn-doped ZnO thin films, probed by electron paramagnetic resonance. Journal of Materials Chemistry C, 2014, 2, 4947.	5.5	30
105	Epitaxial Coherence at Interfaces as Origin of High Magnetoelectric Coupling in Multiferroic BaTiO₃â€“BiFeO₃ Superlattices. Advanced Materials Interfaces, 2016, 3, 1500822.	3.7	30
106	Epitaxial Î²-(AlxGa1â^'x)2O3 thin films and heterostructures grown by tin-assisted VCCS-PLD. APL Materials, 2019, 7, .	5.1	30
107	Inductive determination of the critical current density of superconducting thin films without lateral structuring. Physica C: Superconductivity and Its Applications, 1994, 220, 209-214.	1.2	29
108	Infrared dielectric function and phonon modes of Mg-rich cubic MgxZn1â^'xO(xâ©¾0.67) thin films on sapphire (0001). Applied Physics Letters, 2004, 85, 905-907.	3.3	29

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109	Photocurrent spectroscopy of deep levels in ZnO thin films. Physical Review B, 2007, 76, .	3.2	29
110	Tungsten Oxide as a Gate Dielectric for Highly Transparent and Temperatureâ€Stable Zincâ€Oxideâ€Based Thinâ€Film Transistors. Advanced Materials, 2011, 23, 5383-5386.	21.0	29
111	Exchange bias and magnetodielectric coupling effects in ZnFe2O4â€“BaTiO3 composite thin films. CrystEngComm, 2012, 14, 6477.	2.6	29
112	Ferroelectric thin film field-effect transistors based on ZnO/BaTiO3 heterostructures. Journal of Vacuum Science & Technology B, 2009, 27, 1789-1793.	1.3	28
113	Fresnoite thin films grown by pulsed laser deposition: photoluminescence and laser crystallization. CrystEngComm, 2011, 13, 6377.	2.6	28
114	High electron mobility of phosphorous-doped homoepitaxial ZnO thin films grown by pulsed-laser deposition. Journal of Applied Physics, 2008, 104, 013708.	2.5	27
115	Tuning the lateral density of ZnO nanowire arrays and its application as physical templates for radial nanowire heterostructures. Journal of Materials Chemistry, 2010, 20, 3848.	6.7	27
116	Electrical properties of ZnO thin films and optical properties of ZnO-based nanostructures. Superlattices and Microstructures, 2005, 38, 317-328.	3.1	26
117	Magnetoresistance effects in Zn0.90Co0.10O films. Journal of Applied Physics, 2006, 100, 013904.	2.5	26
118	Ferrimagnetic ZnFe₂O₄ thin films on SrTiO₃ single crystals with highly tunable electrical conductivity. Physica Status Solidi - Rapid Research Letters, 2011, 5, 438-440.	2.4	26
119	Magnetic spin structure and magnetoelectric coupling in BiFeO3-BaTiO3 multilayer. Applied Physics Letters, 2015, 106, .	3.3	26
120	Suppression of Grain Boundary Scattering in Multifunctional pâ€Type Transparent Î³â€CuI Thin Films due to Interface Tunneling Currents. Advanced Materials Interfaces, 2018, 5, 1701411.	3.7	26
121	Solubility limit and material properties of a Î²-(AlxGa1â^'x)2O3 thin film with a lateral cation gradient on (00.1)Al2O3 by tin-assisted PLD. APL Materials, 2020, 8, 021103.	5.1	26
122	Low temperature photoluminescence and infrared dielectric functions of pulsed laser deposited ZnO thin films on silicon. Thin Solid Films, 2006, 496, 234-239.	1.8	25
123	Properties of phosphorus doped ZnO. Applied Physics A: Materials Science and Processing, 2007, 88, 125-128.	2.3	25
124	Intense white photoluminescence emission of V-implanted zinc oxide thin films. Journal of Applied Physics, 2008, 104, .	2.5	25
125	Room temperature ferromagnetism in Nd- and Mn-codoped ZnO films. Journal Physics D: Applied Physics, 2008, 41, 105012.	2.8	25
126	Dielectric properties of Fe-doped BaxSr1â^'xTiO3 thin films on polycrystalline substrates at temperatures between â^'35 and +85 Â°C. Solid-State Electronics, 2003, 47, 2199-2203.	1.4	24

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127	EPR study on magnetic Zn1â^'xMnxO. Superlattices and Microstructures, 2005, 38, 413-420.	3.1	24
128	On the transition point of thermally activated conduction of spinel-type MFe2O4 ferrite thin films (Mâ€‰=â€‰Zn, Co, Ni). Applied Physics Letters, 2013, 102, .	3.3	24
129	Charge transfer-induced magnetic exchange bias and electron localization in (111)- and (001)-oriented LaNiO3/LaMnO3 superlattices. Applied Physics Letters, 2017, 110, 102403.	3.3	24
130	Realization of highly rectifying Schottky barrier diodes and pn heterojunctions on Î²-Ga2O3 by overcoming the conductivity anisotropy. Journal of Applied Physics, 2021, 130, .	2.5	24
131	Growth, structural and optical properties of coherent Î²-(AlxGa1â^'x)2O3/Î²-Ga2O3 quantum well superlattice heterostructures. APL Materials, 2020, 8, .	5.1	24
132	Control of phase formation of (Al x Ga1â€‰â^'â€‰x)2O3 thin films on c-plane Al2O3. Journal Physics D: Applied Physics, 2020, 53, 485105.	2.8	24
133	Homoepitaxial ZnO thin films by PLD: Structural properties. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 3280-3287.	0.8	23
134	Electronic and optical properties of ZnO/(Mg,Zn)O quantum wells with and without a distinct quantum-confined Stark effect. Journal of Applied Physics, 2012, 111, .	2.5	23
135	Optical whispering gallery modes in dodecagonal zinc oxide microcrystals. Superlattices and Microstructures, 2007, 42, 333-336.	3.1	22
136	Electrical properties of ZnOâ€“BaTiO3â€“ZnO heterostructures with asymmetric interface charge distribution. Applied Physics Letters, 2009, 95, .	3.3	22
137	Oxide Thin Film Heterostructures on Large Area, with Flexible Doping, Low Dislocation Density, and Abrupt Interfaces: Grown by Pulsed Laser Deposition. Laser Chemistry, 2010, 2010, 1-27.	0.5	22
138	Origin of the near-band-edge luminescence in MgxZn1â^'xO alloys. Journal of Applied Physics, 2010, 107, 013704.	2.5	22
139	Comparative study of optical and magnetoâ€optical properties of normal, disordered, and inverse spinelâ€type oxides. Physica Status Solidi (B): Basic Research, 2016, 253, 429-436.	1.5	22
140	From energy harvesting to topologically insulating behavior: ABO₃-type epitaxial thin films and superlattices. Journal of Materials Chemistry C, 2020, 8, 15575-15596.	5.5	22
141	Anisotropic strain relaxation through prismatic and basal slip in Î±-(Al, Ga)2O3 on R-plane Al2O3. APL Materials, 2020, 8, 021108.	5.1	22
142	Room-temperature cathodoluminescence of n-type ZnO thin films grown by pulsed laser deposition in N2, N2O, and O2 background gas. Thin Solid Films, 2005, 486, 205-209.	1.8	21
143	Excitonic transport in ZnO. Journal of Materials Research, 2012, 27, 2225-2231.	2.6	21
144	Ag-doped double-sided PLD-YBCO thin films for passive microwave devices in future communication systems. IEEE Transactions on Applied Superconductivity, 1999, 9, 1936-1939.	1.7	20

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145	Magnetoresistance in pulsed laser deposited 3d transition metal doped ZnO films. Thin Solid Films, 2006, 515, 2549-2554.	1.8	20
146	Interface-Charge-Coupled Polarization Response of Pt-BaTiO3-ZnO-Pt Heterojunctions: A Physical Model Approach. Journal of Electronic Materials, 2008, 37, 1029-1034.	2.2	20
147	Modeling the electrical transport in epitaxial undoped and Ni-, Cr-, and W-doped TiO2 anatase thin films. Applied Physics Letters, 2014, 105, 062103.	3.3	20
148	Mo/Si multilayers for EUV lithography by ion beam sputter deposition. Vacuum, 2003, 71, 407-415.	3.5	19
149	Comparative characterization of differently grown ZnO single crystals by positron annihilation and Hall effect. Superlattices and Microstructures, 2007, 42, 259-264.	3.1	19
150	Correlation of Interface Impurities and Chemical Gradients with High Magnetoelectric Coupling Strength in Multiferroic BiFeO₃â€“BaTiO₃ Superlattices. ACS Applied Materials & Interfaces, 2017, 9, 18956-18965.	8.0	19
151	Atomically stepped, pseudomorphic, corundum-phase (Al1-xGax)2O3 thin films (0â€‰â‰€â€‰xâ€‰<â€‰0.08) grown on R-plane sapphire. Applied Physics Letters, 2018, 113, .	3.3	19
152	Large Area Pulsed Laser Deposition of YBCO Thin Films and Buffer Layers on 3-Inch Wafers. Materials Research Society Symposia Proceedings, 1994, 341, 189.	0.1	18
153	Structural and optical properties of ZrO₂ and Al₂O₃ thin films and Bragg reflectors grown by pulsed laser deposition. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 1240-1243.	0.8	18
154	Stable p-type ZnO:P nanowire/n-type ZnO:Ga film junctions, reproducibly grown by two-step pulsed laser deposition. Journal of Vacuum Science & Technology B, 2009, 27, 1693-1697.	1.3	18
155	Visible emission from ZnCdO/ZnO multiple quantum wells. Physica Status Solidi - Rapid Research Letters, 2012, 6, 31-33.	2.4	18
156	Vacuum ultraviolet dielectric function of ZnFe2O4 thin films. Journal of Applied Physics, 2013, 113, .	2.5	18
157	Structural and Elastic Properties of Î±â€(Al_xGa_{1â€’x})₂O₃ Thin Films on (11.0) Al₂O₃ Substrates for the Entire Composition Range. Physica Status Solidi (B): Basic Research, 2021, 258, 2000394.	1.5	18
158	Highly reproducible large-area and double-sided pulsed laser deposition of HTSC YBCO:Ag thin films for microwave applications. Applied Physics A: Materials Science and Processing, 1999, 69, S905-S911.	2.3	17
159	Dielectric loss tangent of sapphire single crystal produced by edge-defined film-fed growth method. Physica C: Superconductivity and Its Applications, 2002, 377, 313-318.	1.2	17
160	Advances of pulsed laser deposition of ZnO thin films. Annalen Der Physik, 2004, 13, 59-60.	2.4	17
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