

# Michael Lorenz

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

351 papers	11,289 citations	49 h-index	93 g-index
370 ext. papers	12,063 ext. citations	3.1 avg, IF	5.87 L-index

#	Paper	IF	Citations
351	Raman scattering in ZnO thin films doped with Fe, Sb, Al, Ga, and Li. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 1974-1976	3.4	551
350	Infrared dielectric functions and phonon modes of high-quality ZnO films. <i>Journal of Applied Physics</i> , <b>2003</b> , 93, 126-133	2.5	545
349	High electron mobility of epitaxial ZnO thin films on c-plane sapphire grown by multistep pulsed-laser deposition. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 3901-3903	3.4	539
348	Zinc oxide nanorod based photonic devices: recent progress in growth, light emitting diodes and lasers. <i>Nanotechnology</i> , <b>2009</b> , 20, 332001	3.4	503
347	Room temperature ferromagnetism in ZnO films due to defects. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 082503	3.4	310
346	Whispering gallery modes in nanosized dielectric resonators with hexagonal cross section. <i>Physical Review Letters</i> , <b>2004</b> , 93, 103903	7.4	270
345	Defect-induced magnetic order in pure ZnO films. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	257
344	The 2016 oxide electronic materials and oxide interfaces roadmap. <i>Journal Physics D: Applied Physics</i> , <b>2016</b> , 49, 433001	3	204
343	Mg <sub>x</sub> Zn <sub>1-x</sub> O (0 ≤ x ≤ 1). <i>Applied Physics Letters</i> , <b>2005</b> , 86, 143113	3.4	181
342	Room temperature ferromagnetism in carbon-implanted ZnO. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 232507	3.4	178
341	Whispering gallery mode lasing in zinc oxide microwires. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 241102	3.4	178
340	Transparent flexible thermoelectric material based on non-toxic earth-abundant p-type copper iodide thin film. <i>Nature Communications</i> , <b>2017</b> , 8, 16076	17.4	164
339	Dielectric functions (1 to 5 eV) of wurtzite Mg <sub>x</sub> Zn <sub>1-x</sub> O (x = 0.29) thin films. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 2260-2262	3.4	157
338	Mean barrier height of Pd Schottky contacts on ZnO thin films. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 092102	3.4	146
337	Two-dimensional electron gas density in Al <sub>1-x</sub> In <sub>x</sub> N/AlN/GaN heterostructures (0.03 ≤ x ≤ 0.23). <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 093714	2.5	138
336	Optical and electrical properties of epitaxial (Mg,Cd) <sub>x</sub> Zn <sub>1-x</sub> O, ZnO, and ZnO:(Ga,Al) thin films on c-plane sapphire grown by pulsed laser deposition. <i>Solid-State Electronics</i> , <b>2003</b> , 47, 2205-2209	1.7	130
335	Defects in virgin and N <sup>+</sup> -implanted ZnO single crystals studied by positron annihilation, Hall effect, and deep-level transient spectroscopy. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	129

334	Room-temperature synthesized copper iodide thin film as degenerate p-type transparent conductor with a boosted figure of merit. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 12929-12933	11.5	126
333	Recent progress on ZnO-based metal-semiconductor field-effect transistors and their application in transparent integrated circuits. <i>Advanced Materials</i> , <b>2010</b> , 22, 5332-49	24	122
332	Transparent semiconducting oxides: materials and devices. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2010</b> , 207, 1437-1449	1.6	120
331	Cuprous iodide $\text{I}_2$ p-type transparent semiconductor: history and novel applications. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2013</b> , 210, 1671-1703	1.6	111
330	Phosphorus acceptor doped ZnO nanowires prepared by pulsed-laser deposition. <i>Nanotechnology</i> , <b>2007</b> , 18, 455707	3.4	96
329	Lateral homogeneity of Schottky contacts on n-type ZnO. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 79-81	3.4	95
328	Cuprous iodide $\text{I}_2$ p-type transparent semiconductor: history and novel applications (Phys. Status Solidi A 9(2013)). <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2013</b> , 210,	1.6	86
327	Large-area double-side pulsed laser deposition of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ thin films on 3-in. sapphire wafers. <i>Applied Physics Letters</i> , <b>1996</b> , 68, 3332-3334	3.4	85
326	Multiferroic $\text{BaTiO}_3/\text{BiFeO}_3$ composite thin films and multilayers: strain engineering and magnetoelectric coupling. <i>Journal Physics D: Applied Physics</i> , <b>2014</b> , 47, 135303	3	83
325	Anionic and cationic substitution in ZnO. <i>Progress in Solid State Chemistry</i> , <b>2009</b> , 37, 153-172	8	81
324	Room temperature ferromagnetism in Mn-doped ZnO films mediated by acceptor defects. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 092503	3.4	80
323	Metal-insulator transition in Co-doped ZnO: Magnetotransport properties. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	77
322	Spatially Inhomogeneous Impurity Distribution in ZnO Micropillars. <i>Nano Letters</i> , <b>2004</b> , 4, 797-800	11.5	74
321	Infrared optical properties of $\text{Mg}_x\text{Zn}_{1-x}\text{O}$ thin films ( $0 \leq x \leq 1$ ): Long-wavelength optical phonons and dielectric constants. <i>Journal of Applied Physics</i> , <b>2006</b> , 99, 113504	2.5	72
320	Room-temperature Domain-epitaxy of Copper Iodide Thin Films for Transparent $\text{CuI}/\text{ZnO}$ Heterojunctions with High Rectification Ratios Larger than $10^9$ . <i>Scientific Reports</i> , <b>2016</b> , 6, 21937	4.9	69
319	Properties of reactively sputtered Ag, Au, Pd, and Pt Schottky contacts on n-type ZnO. <i>Journal of Vacuum Science &amp; Technology B</i> , <b>2009</b> , 27, 1769		68
318	Electrical and magnetic properties of RE-doped ZnO thin films (RE = Gd, Nd). <i>Superlattices and Microstructures</i> , <b>2007</b> , 42, 231-235	2.8	67
317	Whispering gallery modes in zinc oxide micro- and nanowires. <i>Physica Status Solidi (B): Basic Research</i> , <b>2010</b> , 247, 1282-1293	1.3	66

316	UV optical properties of ferromagnetic Mn-doped ZnO thin films grown by PLD. <i>Thin Solid Films</i> , <b>2005</b> , 486, 117-121	2.2	65
315	Infrared dielectric functions and phonon modes of wurtzite $\text{Mg}_x\text{Zn}_{1-x}\text{O}$ ( $x \geq 0.2$ ). <i>Applied Physics Letters</i> , <b>2002</b> , 81, 2376-2378	3.4	64
314	Deep acceptor states in ZnO single crystals. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 092122	3.4	63
313	Tin-assisted heteroepitaxial PLD-growth of $\text{Ga}_2\text{O}_3$ thin films with high crystalline quality. <i>APL Materials</i> , <b>2019</b> , 7, 022516	5.7	63
312	Occurrence of rotation domains in heteroepitaxy. <i>Physical Review Letters</i> , <b>2010</b> , 105, 146102	7.4	62
311	ZnO metal-semiconductor field-effect transistors with Ag-Schottky gates. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 192108	3.4	62
310	$s\text{-}d$ exchange interaction induced magnetoresistance in magnetic ZnO. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	61
309	Lattice parameters and Raman-active phonon modes of $\text{Al}_x\text{Ga}_{1-x}\text{O}_3$ . <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 125703	2.5	59
308	Structural characterization of a-plane $\text{Zn}_{1-x}\text{Cd}_x\text{O}$ ( $0 \leq x \leq 0.085$ ) thin films grown by metal-organic vapor phase epitaxy. <i>Journal of Applied Physics</i> , <b>2006</b> , 99, 023514	2.5	59
307	Electron paramagnetic resonance of $\text{Zn}_{1-x}\text{Mn}_x\text{O}$ thin films and single crystals. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	58
306	Defect-induced ferromagnetism in undoped and Mn-doped zirconia thin films. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	57
305	Spin manipulation in Co-doped ZnO. <i>Physical Review Letters</i> , <b>2008</b> , 101, 076601	7.4	55
304	Refractive indices and band-gap properties of rocksalt $\text{Mg}_x\text{Zn}_{1-x}\text{O}$ ( $0.68 \leq x \leq 1$ ). <i>Journal of Applied Physics</i> , <b>2006</b> , 99, 123701	2.5	51
303	Hard amorphous $\text{CSi}_x\text{N}_y$ thin films deposited by RF nitrogen plasma assisted pulsed laser ablation of mixed graphite/Si $3\text{N}_4$ -targets. <i>Thin Solid Films</i> , <b>1999</b> , 348, 103-113	2.2	50
302	Correlation of magnetoelectric coupling in multiferroic $\text{BaTiO}_3\text{-BiFeO}_3$ superlattices with oxygen vacancies and antiphase octahedral rotations. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 012905	3.4	49
301	Resistive hysteresis and interface charge coupling in $\text{BaTiO}_3\text{-ZnO}$ heterostructures. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 142904	3.4	49
300	Temperature-dependent dielectric and electro-optic properties of a $\text{ZnO-BaTiO}_3\text{-ZnO}$ heterostructure grown by pulsed-laser deposition. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 091904	3.4	49
299	High-quality Y-Ba-Cu-O thin films by PLD-ready for market applications. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2001</b> , 11, 3209-3212	1.8	49

298	Structural and optical properties of (In,Ga)2O3 thin films and characteristics of Schottky contacts thereon. <i>Semiconductor Science and Technology</i> , <b>2015</b> , 30, 024005	1.8	47
297	Low-temperature processed Schottky-gated field-effect transistors based on amorphous gallium-indium-zinc-oxide thin films. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 243506	3.4	47
296	Donor-like defects in ZnO substrate materials and ZnO thin films. <i>Applied Physics A: Materials Science and Processing</i> , <b>2007</b> , 88, 135-139	2.6	47
295	Luminescence and surface properties of Mg <sub>x</sub> Zn <sub>1-x</sub> O thin films grown by pulsed laser deposition. <i>Journal of Applied Physics</i> , <b>2007</b> , 101, 083521	2.5	47
294	Cathodoluminescence of selected single ZnO nanowires on sapphire. <i>Annalen Der Physik</i> , <b>2004</b> , 13, 39-42.6		47
293	Fe-implanted ZnO: Magnetic precipitates versus dilution. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 023902	2.5	46
292	Microstructure defects in YBCO thin films. <i>Physica C: Superconductivity and Its Applications</i> , <b>1995</b> , 243, 281-293	1.3	46
291	Effect of rare-earth ion doping on the multiferroic properties of BiFeO <sub>3</sub> thin films grown epitaxially on SrTiO <sub>3</sub> (1 0 0). <i>Journal Physics D: Applied Physics</i> , <b>2013</b> , 46, 175006	3	45
290	Lattice parameters and Raman-active phonon modes of (In <sub>x</sub> Ga <sub>1-x</sub> ) <sub>2</sub> O <sub>3</sub> for x. <i>Journal of Applied Physics</i> , <b>2014</b> , 116, 013505	2.5	45
289	p-type conducting ZnO:P microwires prepared by direct carbothermal growth. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2008</b> , 2, 37-39	2.5	44
288	Ordered growth of tilted ZnO nanowires: morphological, structural and optical characterization. <i>Nanotechnology</i> , <b>2007</b> , 18, 195303	3.4	42
287	Pulsed Laser Deposition of ZnO-Based Thin Films. <i>Springer Series in Materials Science</i> , <b>2008</b> , 303-357	0.9	40
286	Exciton-Polariton formation at room temperature in a planar ZnO resonator structure. <i>Applied Physics B: Lasers and Optics</i> , <b>2008</b> , 93, 331-337	1.9	40
285	Mott variable-range hopping and weak antilocalization effect in heteroepitaxial Na <sub>2</sub> IrO <sub>3</sub> thin films. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	39
284	Homogeneous core/shell ZnO/ZnMgO quantum well heterostructures on vertical ZnO nanowires. <i>Nanotechnology</i> , <b>2009</b> , 20, 305701	3.4	39
283	Magnetoresistance and anomalous Hall effect in magnetic ZnO films. <i>Journal of Applied Physics</i> , <b>2007</b> , 101, 063918	2.5	39
282	Side-selective and non-destructive determination of the critical current density of double-sided superconducting thin films. <i>Physica C: Superconductivity and Its Applications</i> , <b>1996</b> , 265, 335-340	1.3	39
281	Ferromagnetic transition metal implanted ZnO: A diluted magnetic semiconductor?. <i>Vacuum</i> , <b>2009</b> , 83, S13-S19	3.7	38

280	Self-organized growth of ZnO-based nano- and microstructures. <i>Physica Status Solidi (B): Basic Research</i> , <b>2010</b> , 247, 1265-1281	1.3	38
279	Homoepitaxy of ZnO by pulsed-laser deposition. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2007</b> , 1, 129-131	2.5	38
278	Room-temperature ferromagnetic Mn-alloyed ZnO films obtained by pulsed laser deposition. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2006</b> , 307, 212-221	2.8	38
277	UV-VIS spectroscopic ellipsometry of ternary Mg <sub>x</sub> Zn <sub>1-x</sub> O (0 ≤ x ≤ 0.53) thin films. <i>Thin Solid Films</i> , <b>2004</b> , 455-456, 500-504	2.2	38
276	Dielectric function in the spectral range (0.58-5)eV of an (Al <sub>x</sub> Ga <sub>1-x</sub> ) <sub>2</sub> O <sub>3</sub> thin film with continuous composition spread. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 165307	2.5	37
275	Paramagnetism in Co-doped ZnO films. <i>Journal Physics D: Applied Physics</i> , <b>2009</b> , 42, 085001	3	36
274	ac susceptibility of structured YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> thin films in transverse magnetic ac fields. <i>Physical Review B</i> , <b>1997</b> , 55, 11816-11822	3.3	36
273	Spatial fluctuations of optical emission from single ZnO/MgZnO nanowire quantum wells. <i>Nanotechnology</i> , <b>2008</b> , 19, 115202	3.4	36
272	Interface polarization coupling in piezoelectric-semiconductor ferroelectric heterostructures. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	35
271	Two-dimensional ZnO:Al nanosheets and nanowalls obtained by Al <sub>2</sub> O <sub>3</sub> -assisted carbothermal evaporation. <i>Thin Solid Films</i> , <b>2005</b> , 486, 191-194	2.2	34
270	Structural and magnetic properties of epitaxial magnetite thin films prepared by pulsed laser deposition. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1995</b> , 140-144, 725-726	2.8	34
269	A comparison between ZnO films doped with 3d and 4f magnetic ions. <i>Thin Solid Films</i> , <b>2007</b> , 515, 8761-8763	2.63	33
268	Visible-blind and solar-blind ultraviolet photodiodes based on (In <sub>x</sub> Ga <sub>1-x</sub> ) <sub>2</sub> O <sub>3</sub> . <i>Applied Physics Letters</i> , <b>2016</b> , 108, 123503	3.4	33
267	Control of interface abruptness of polar MgZnO/ZnO quantum wells grown by pulsed laser deposition. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 052101	3.4	32
266	Exchange anisotropy in epitaxial Fe <sub>3</sub> O <sub>4</sub> /CoO and Fe <sub>3</sub> O <sub>4</sub> /Co <sub>x</sub> Fe <sub>3-x</sub> O <sub>4</sub> bilayers grown by pulsed laser deposition. <i>Journal of Applied Physics</i> , <b>1998</b> , 84, 5097-5104	2.5	32
265	Infrared dielectric functions and crystal orientation of a-plane ZnO thin films on r-plane sapphire determined by generalized ellipsometry. <i>Thin Solid Films</i> , <b>2004</b> , 455-456, 161-166	2.2	31
264	Rectifying semiconductor-ferroelectric polarization loops and offsets in Pt/BaTiO <sub>3</sub> /ZnO/Pt thin film capacitor structures. <i>Thin Solid Films</i> , <b>2005</b> , 486, 153-157	2.2	31
263	Microcracks observed in epitaxial thin films of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> and GdBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> . <i>Physica Status Solidi A</i> , <b>1995</b> , 150, 381-394		31

262	Formation of a two-dimensional electron gas in ZnO/MgZnO single heterostructures and quantum wells. <i>Thin Solid Films</i> , <b>2009</b> , 518, 1048-1052	2.2	30
261	Optical properties of homo- and heteroepitaxial ZnO/MgxZn1-xO single quantum wells grown by pulsed-laser deposition. <i>Journal of Luminescence</i> , <b>2010</b> , 130, 520-526	3.8	30
260	Pulsed-laser deposition and characterization of ZnO nanowires with regular lateral arrangement. <i>Applied Physics A: Materials Science and Processing</i> , <b>2007</b> , 88, 31-34	2.6	30
259	25 years of pulsed laser deposition. <i>Journal Physics D: Applied Physics</i> , <b>2014</b> , 47, 030301	3	29
258	Tungsten oxide as a gate dielectric for highly transparent and temperature-stable zinc-oxide-based thin-film transistors. <i>Advanced Materials</i> , <b>2011</b> , 23, 5383-6	24	29
257	Electron paramagnetic resonance in transition metal-doped ZnO nanowires. <i>Journal of Applied Physics</i> , <b>2007</b> , 101, 024324	2.5	29
256	Infrared dielectric function and phonon modes of Mg-rich cubic Mg <sub>x</sub> Zn <sub>1-x</sub> O (x=0.67) thin films on sapphire (0001). <i>Applied Physics Letters</i> , <b>2004</b> , 85, 905-907	3.4	29
255	Microstructure and microwave surface resistance of typical YBaCuO thin films on sapphire and LaAlO <sub>3</sub> . <i>Superconductor Science and Technology</i> , <b>1999</b> , 12, 366-375	3.1	29
254	Optical and structural properties of MgZnO/ZnO hetero- and double heterostructures grown by pulsed laser deposition. <i>Applied Physics A: Materials Science and Processing</i> , <b>2007</b> , 88, 99-104	2.6	28
253	Large-area and double-sided pulsed laser deposition of Y-Ba-Cu-O thin films applied to HTSC microwave devices. <i>IEEE Transactions on Applied Superconductivity</i> , <b>1997</b> , 7, 1240-1243	1.8	27
252	High electron mobility of phosphorous-doped homoepitaxial ZnO thin films grown by pulsed-laser deposition. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 013708	2.5	27
251	Photocurrent spectroscopy of deep levels in ZnO thin films. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	27
250	Electronic properties of defects in pulsed-laser deposition grown ZnO with levels at 300 and 370meV below the conduction band. <i>Physica B: Condensed Matter</i> , <b>2007</b> , 401-402, 378-381	2.8	27
249	Fast, high-efficiency, and homogeneous room-temperature cathodoluminescence of ZnO scintillator thin films on sapphire. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 243510	3.4	27
248	Local lattice distortions in oxygen deficient Mn-doped ZnO thin films, probed by electron paramagnetic resonance. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 4947	7.1	26
247	Fresnoite thin films grown by pulsed laser deposition: photoluminescence and laser crystallization. <i>CrystEngComm</i> , <b>2011</b> , 13, 6377	3.3	26
246	Magnetoresistance effects in Zn <sub>0.90</sub> Co <sub>0.10</sub> O films. <i>Journal of Applied Physics</i> , <b>2006</b> , 100, 013904	2.5	26
245	Exchange bias and magnetodielectric coupling effects in ZnFe <sub>2</sub> O <sub>4</sub> /BaTiO <sub>3</sub> composite thin films. <i>CrystEngComm</i> , <b>2012</b> , 14, 6477	3.3	25



244	Ferroelectric thin film field-effect transistors based on ZnO/BaTiO <sub>3</sub> heterostructures. <i>Journal of Vacuum Science &amp; Technology B</i> , <b>2009</b> , 27, 1789		25
243	Electrical properties of ZnO thin films and optical properties of ZnO-based nanostructures. <i>Superlattices and Microstructures</i> , <b>2005</b> , 38, 317-328	2.8	25
242	Epitaxial Coherence at Interfaces as Origin of High Magnetoelectric Coupling in Multiferroic BaTiO <sub>3</sub> /BiFeO <sub>3</sub> Superlattices. <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3, 1500822	4.6	25
241	Intense white photoluminescence emission of V-implanted zinc oxide thin films. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 123504	2.5	24
240	Properties of phosphorus doped ZnO. <i>Applied Physics A: Materials Science and Processing</i> , <b>2007</b> , 88, 125-128		24
239	Epitaxial stabilization of single phase $\text{[In}_x\text{Ga}_{1-x}\text{]}_2\text{O}_3$ thin films up to $x = 0.28$ on c-sapphire and $\text{Ga}_2\text{O}_3(001)$ templates by tin-assisted VCCS-PLD. <i>APL Materials</i> , <b>2019</b> , 7, 101102	5.7	24
238	Properties of Schottky Barrier Diodes on $(\text{In}_x\text{Ga}_{1-x})_2\text{O}_3$ For 0.01 $\leq x \leq 0.85$ Determined by a Combinatorial Approach. <i>ACS Combinatorial Science</i> , <b>2015</b> , 17, 710-5	3.9	23
237	On the transition point of thermally activated conduction of spinel-type $\text{MFe}_2\text{O}_4$ ferrite thin films ( $\text{M} = \text{Zn, Co, Ni}$ ). <i>Applied Physics Letters</i> , <b>2013</b> , 102, 172104	3.4	23
236	Ferrimagnetic $\text{ZnFe}_2\text{O}_4$ thin films on $\text{SrTiO}_3$ single crystals with highly tunable electrical conductivity. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2011</b> , 5, 438-440	2.5	23
235	Tuning the lateral density of ZnO nanowire arrays and its application as physical templates for radial nanowire heterostructures. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 3848		23
234	Room temperature ferromagnetism in Nd- and Mn-codoped ZnO films. <i>Journal Physics D: Applied Physics</i> , <b>2008</b> , 41, 105012	3	23
233	EPR study on magnetic $\text{Zn}_{1-x}\text{Mn}_x\text{O}$ . <i>Superlattices and Microstructures</i> , <b>2005</b> , 38, 413-420	2.8	23
232	Inductive determination of the critical current density of superconducting thin films without lateral structuring. <i>Physica C: Superconductivity and Its Applications</i> , <b>1994</b> , 220, 209-214	1.3	23
231	Magnetic spin structure and magnetoelectric coupling in $\text{BiFeO}_3$ - $\text{BaTiO}_3$ multilayer. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 082904	3.4	22
230	Electrical properties of $\text{ZnO}/\text{BaTiO}_3/\text{ZnO}$ heterostructures with asymmetric interface charge distribution. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 082902	3.4	22
229	Optical whispering gallery modes in dodecagonal zinc oxide microcrystals. <i>Superlattices and Microstructures</i> , <b>2007</b> , 42, 333-336	2.8	22
228	Homoepitaxial ZnO thin films by PLD: Structural properties. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2008</b> , 5, 3280-3287		22
227	Electronic and optical properties of $\text{ZnO}/(\text{Mg,Zn})\text{O}$ quantum wells with and without a distinct quantum-confined Stark effect. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 063701	2.5	21



226	Oxide Thin Film Heterostructures on Large Area, with Flexible Doping, Low Dislocation Density, and Abrupt Interfaces: Grown by Pulsed Laser Deposition. <i>Laser Chemistry</i> , <b>2010</b> , 2010, 1-27		21
225	Origin of the near-band-edge luminescence in Mg <sub>x</sub> Zn <sub>1-x</sub> O alloys. <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 013704	2.5	21
224	Excitonic transport in ZnO. <i>Journal of Materials Research</i> , <b>2012</b> , 27, 2225-2231	2.5	20
223	Low temperature photoluminescence and infrared dielectric functions of pulsed laser deposited ZnO thin films on silicon. <i>Thin Solid Films</i> , <b>2006</b> , 496, 234-239	2.2	20
222	Dielectric properties of Fe-doped Ba <sub>x</sub> Sr <sub>1-x</sub> TiO <sub>3</sub> thin films on polycrystalline substrates at temperatures between 35 and +85 °C. <i>Solid-State Electronics</i> , <b>2003</b> , 47, 2199-2203	1.7	20
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220	Charge transfer-induced magnetic exchange bias and electron localization in (111)- and (001)-oriented LaNiO <sub>3</sub> /LaMnO <sub>3</sub> superlattices. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 102403	3.4	19
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217	Magnetoresistance in pulsed laser deposited 3d transition metal doped ZnO films. <i>Thin Solid Films</i> , <b>2006</b> , 515, 2549-2554	2.2	18
216	Solubility limit and material properties of a (Al <sub>x</sub> Ga <sub>1-x</sub> ) <sub>2</sub> O <sub>3</sub> thin film with a lateral cation gradient on (00.1)Al <sub>2</sub> O <sub>3</sub> by tin-assisted PLD. <i>APL Materials</i> , <b>2020</b> , 8, 021103	5.7	17
215	Visible emission from ZnCdO/ZnO multiple quantum wells. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2012</b> , 6, 31-33	2.5	17
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213	Comparative characterization of differently grown ZnO single crystals by positron annihilation and Hall effect. <i>Superlattices and Microstructures</i> , <b>2007</b> , 42, 259-264	2.8	17
212	Structural and optical properties of ZrO <sub>2</sub> and Al <sub>2</sub> O <sub>3</sub> thin films and Bragg reflectors grown by pulsed laser deposition. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2008</b> , 5, 1240-1243		17
211	Epitaxial (Al <sub>x</sub> Ga <sub>1-x</sub> ) <sub>2</sub> O <sub>3</sub> thin films and heterostructures grown by tin-assisted VCCS-PLD. <i>APL Materials</i> , <b>2019</b> , 7, 111110	5.7	17
210	Correlation of Interface Impurities and Chemical Gradients with High Magnetoelectric Coupling Strength in Multiferroic BiFeO <sub>3</sub> -BaTiO <sub>3</sub> Superlattices. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 18956-18965	9.5	16
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207	(Zn,Cd)O thin films for the application in heterostructures: Structural and optical properties. <i>Journal of Applied Physics</i> , <b>2012</b> , 112, 103517	2.5	16
206	Temperature dependence of localization effects of excitons in ZnO <sub>1-x</sub> Zn <sub>1-x</sub> O <sub>2</sub> double heterostructures. <i>Journal of Vacuum Science &amp; Technology B</i> , <b>2009</b> , 27, 1741		16
205	Ion beam analysis of epitaxial (Mg, Cd) <sub>x</sub> Zn <sub>1-x</sub> O and ZnO:(Li, Al, Ga, Sb) thin films grown on c-plane sapphire. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2004</b> , 219-220, 891-896	1.2	16
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202	Induced ferromagnetism and magnetoelectric coupling in ion-beam synthesized BiFeO <sub>3</sub> /CoFe <sub>2</sub> O <sub>4</sub> nanocomposite thin films. <i>Journal Physics D: Applied Physics</i> , <b>2016</b> , 49, 325302	3	15
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195	Ag-doped double-sided PLD-YBCO thin films for passive microwave devices in future communication systems. <i>IEEE Transactions on Applied Superconductivity</i> , <b>1999</b> , 9, 1936-1939	1.8	15
194	Layer-by-layer growth of TiN by pulsed laser deposition on in-situ annealed (100) MgO substrates. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2014</b> , 211, 2621-2624	1.6	14
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95	Depth profiling of Bi-Sr-Ca-Cu-O thin films by secondary neutrals mass spectroscopy. <i>Physica C: Superconductivity and Its Applications</i> , <b>1993</b> , 215, 445-457	1.3	6
94	Pulsed Laser Deposition <b>2019</b> , 1-29		5
93	Determination of unscreened exciton states in polar ZnO/(Mg,Zn)O quantum wells with strong quantum-confined Stark effect. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	5
92	Excitonic and Optical Confinement in Microwire Heterostructures with Nonpolar (Zn,Cd)O/(Mg,Zn)O Multiple Quantum Wells. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 9020-9024	3.8	5
91	Shallow Donors and Compensation in Homoepitaxial ZnO Thin Films. <i>Journal of Electronic Materials</i> , <b>2010</b> , 39, 595-600	1.9	5
90	Cathodoluminescence of large-area PLD grown ZnO thin films measured in transmission and reflection. <i>Applied Physics A: Materials Science and Processing</i> , <b>2007</b> , 88, 89-93	2.6	5
89	Interface and Luminescence Properties of Pulsed Laser Deposited Mg <sub>x</sub> Zn <sub>1-x</sub> O/ZnO Quantum Wells with Strong Confinement. <i>Materials Research Society Symposia Proceedings</i> , <b>2006</b> , 957, 1		5
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87	Demonstration of surface resistance mapping of large-area HTS films using the dielectric resonator method. <i>Physica C: Superconductivity and Its Applications</i> , <b>2003</b> , 383, 374-378	1.3	5
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84	SNMS and XRD investigations of laser deposited YSZ buffer layers. <i>Fresenius Journal of Analytical Chemistry</i> , <b>1993</b> , 346, 169-172		5
83	Magnetic Properties of Epitaxial Fe <sub>3</sub> O <sub>4</sub> Films. <i>European Physical Journal Special Topics</i> , <b>1997</b> , 07, C1-593-C1-594		

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77	Investigation of acceptor states in ZnO by junction DLTS. <i>Superlattices and Microstructures</i> , <b>2007</b> , 42, 14-20	2.8	4
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75	Surface resistance measurements of surface and interface sides of YBa2Cu3O7 films on sapphire and LaAlO3. <i>Superconductor Science and Technology</i> , <b>2003</b> , 16, 412-415	3.1	4
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73	Pulsed laser deposition of Fe- and Fe, Cu-doped ZnO thin films. <i>Annalen Der Physik</i> , <b>2004</b> , 13, 57-58	2.6	4
72	Controllable Growth of Copper Iodide for High-Mobility Thin Films and Self-Assembled Microcrystals. <i>ACS Applied Electronic Materials</i> , <b>2020</b> , 2, 3627-3632	4	4
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56	Azimuthal Anisotropy of Rhombohedral (Corundum Phase) Heterostructures. <i>Physica Status Solidi (B): Basic Research</i> , <b>2021</b> , 258, 2100104	1.3	3
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54	Control of Optical Absorption and Emission of Sputtered Copper Iodide Thin Films. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2021</b> , 15, 2000431	2.5	3
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40	Defect Structure of Heteroepitaxial Zn <sub>2-2x</sub> Cu <sub>x</sub> In <sub>x</sub> S <sub>2</sub> Layers Grown by Pulsed Laser Deposition on (111) Si, (001) Si and (001) GaP Substrates. <i>Japanese Journal of Applied Physics</i> , <b>2000</b> , 39, 210	1.4	2
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37	Observation of Cu vacancies and their ordering in YBa <sub>2</sub> Cu <sub>4</sub> O <sub>8</sub> . <i>Applied Physics Letters</i> , <b>1996</b> , 69, 1151-1153	3.3	2
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29	Interface effects in ZnO metal-insulator-semiconductor and metal-semiconductor structures <b>2010</b> ,		1

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20	Design and investigation of microwave bandpass filters for L- and R-frequency bands based on high-temperature superconducting films		1
19	Adjusting chemical bonding of hard amorphous CSi <sub>x</sub> Ny thin films by N <sup>+</sup> -plasma-assisted pulsed laser deposition. <i>Applied Physics A: Materials Science and Processing</i> , <b>1999</b> , 69, S899-S903	2.6	1
18	Thermally Activated Depinning of a Driven Flux Line Lattice. <i>Physica Status Solidi (B): Basic Research</i> , <b>1999</b> , 215, 573-578	1.3	1
17	Experimental evidence of wide bandgap in triclinic (001)-oriented Sn <sub>5</sub> O <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> thin films on Y <sub>2</sub> O <sub>3</sub> buffered glass substrates. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 14203-14207	7.1	1
16	Fundamental absorption edges in heteroepitaxial YBiO <sub>3</sub> thin films. <i>Journal of Applied Physics</i> , <b>2016</b> , 120, 125702	2.5	1
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