Michael Lorenz

List of Publications by Year in Descending Order

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	Epitaxial lift-off of single crystalline CuI thin films. *Journal of Materials Chemistry C*, **2022**, 10, 4124-4127	7.1	
350	Evidence for oxygen being a dominant shallow acceptor in p-type CuI. *APL Materials*, **2021**, 9, 051101	5.7	3
349	p-Type Doping and Alloying of CuI Thin Films with Selenium. *Physica Status Solidi - Rapid Research Letters*, **2021**, 15, 2100214	2.5	2
348	Azimuthal Anisotropy of Rhombohedral (Corundum Phase) Heterostructures. *Physica Status Solidi (B): Basic Research*, **2021**, 258, 2100104	1.3	3
347	Structural and Elastic Properties of □(AlxGa1□)2O3 Thin Films on (11.0) Al2O3 Substrates for the Entire Composition Range. *Physica Status Solidi (B): Basic Research*, **2021**, 258, 2000394	1.3	9
346	Control of Optical Absorption and Emission of Sputtered Copper Iodide Thin Films. *Physica Status Solidi - Rapid Research Letters*, **2021**, 15, 2000431	2.5	3
345	Epitaxial Growth of □(AlxGa1□)2O3 Layers and Superlattice Heterostructures up to x = 0.48 on Highly Conductive Al-Doped ZnO Thin-Film Templates by Pulsed Laser Deposition. *Physica Status Solidi (B): Basic Research*, **2021**, 258, 2000359	1.3	1
344	Plastic strain relaxation and alloy instability in epitaxial corundum-phase (Al,Ga)2O3 thin films on r-plane Al2O3. *Materials Advances*, **2021**, 2, 4316-4322	3.3	1
343	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	8.5	13
342	Realization of highly rectifying Schottky barrier diodes and pn heterojunctions on □Ga2O3 by overcoming the conductivity anisotropy. *Journal of Applied Physics*, **2021**, 130, 084502	2.5	4
341	Solubility limit and material properties of a □(AlxGa1□)2O3 thin film with a lateral cation gradient on (00.1)Al2O3 by tin-assisted PLD. *APL Materials*, **2020**, 8, 021103	5.7	17
340	Anisotropic strain relaxation through prismatic and basal slip in □(Al, Ga)2O3 on R-plane Al2O3. *APL Materials*, **2020**, 8, 021108	5.7	15
339	Magnetic Anisotropy in Thin Layers of (Mn,Zn)Fe2O4 on SrTiO3 (001). *Physica Status Solidi (B): Basic Research*, **2020**, 257, 1900627	1.3	1
338	Enhanced Magnetoelectric Coupling in BaTiO-BiFeO Multilayers-An Interface Effect. *Materials*, **2020**, 13,	3.5	8
337	Growth, structural and optical properties of coherent □(AlxGa1□)2O3/□Ga2O3 quantum well superlattice heterostructures. *APL Materials*, **2020**, 8, 051112	5.7	11
336	Epitaxial growth and strain relaxation of corundum-phase (Al,Ga)2O3 thin films from pulsed laser deposition at 1000 □C on r-plane Al2O3. *Applied Physics Letters*, **2020**, 117, 242102	3.4	5
335	Control of phase formation of (Al x Ga1 □x)2O3 thin films on c-plane Al2O3. *Journal Physics D: Applied Physics*, **2020**, 53, 485105	3	13

334	Magnetoelectric Coupling in Epitaxial Multiferroic BiFeO3BaTiO3 Composite Thin Films. *Physica Status Solidi (B): Basic Research*, **2020**, 257, 1900613	1.3	7
333	High mobility, highly transparent, smooth, p-type CuI thin films grown by pulsed laser deposition. *APL Materials*, **2020**, 8, 091115	5.7	14
332	From energy harvesting to topologically insulating behavior: ABO3-type epitaxial thin films and superlattices. *Journal of Materials Chemistry C*, **2020**, 8, 15575-15596	7.1	8
331	Controllable Growth of Copper Iodide for High-Mobility Thin Films and Self-Assembled Microcrystals. *ACS Applied Electronic Materials*, **2020**, 2, 3627-3632	4	4
330	Experimental evidence of wide bandgap in triclinic (001)-oriented Sn5O2(PO4)2 thin films on Y2O3 buffered glass substrates. *Journal of Materials Chemistry C*, **2020**, 8, 14203-14207	7.1	1
329	Pulsed Laser Deposition **2019**, 1-29		5
328	Epitaxial stabilization of single phase (InxGa1)2O3 thin films up to x = 0.28 on c-sapphire and Ga2O3(001) templates by tin-assisted VCCS-PLD. *APL Materials*, **2019**, 7, 101102	5.7	24
327	Epitaxial (AlxGa1)2O3 thin films and heterostructures grown by tin-assisted VCCS-PLD. *APL Materials*, **2019**, 7, 111110	5.7	17
326	Tin-assisted heteroepitaxial PLD-growth of Ga2O3 thin films with high crystalline quality. *APL Materials*, **2019**, 7, 022516	5.7	63
325	Impact of magnetization and hyperfine field distribution on high magnetoelectric coupling strength in BaTiO-BiFeO multilayers. *Nanoscale*, **2018**, 10, 5574-5580	7.7	12
324	Suppression of Grain Boundary Scattering in Multifunctional p-Type Transparent CuI Thin Films due to Interface Tunneling Currents. *Advanced Materials Interfaces*, **2018**, 5, 1701411	4.6	16
323	Effect of double layer thickness on magnetoelectric coupling in multiferroic BaTiO3-Bi0.95Gd0.05FeO3multilayers. *Journal Physics D: Applied Physics*, **2018**, 51, 184002	3	12
322	Evolution of magnetization in epitaxial Zn1 Fe x O z thin films (0 ? x ? 0.66) grown by pulsed laser deposition. *Journal Physics D: Applied Physics*, **2018**, 51, 245003	3	1
321	Atomically stepped, pseudomorphic, corundum-phase (Al1-xGax)2O3 thin films (0x . *Applied Physics Letters*, **2018**, 113, 231902	3.4	14
320	Morphology-induced spin frustration in granular BiFeO3 thin films: Origin of the magnetic vertical shift. *Applied Physics Letters*, **2018**, 113, 142402	3.4	2
319	Effect of annealing on the magnetic properties of zinc ferrite thin films. *Materials Letters*, **2017**, 195, 89-91	3.3	13
318	Laser welding of fused silica glass with sapphire using a non- stoichiometric, fresnoitic Ba2TiSi2O8 SiO2 thin film as an absorber. *Optics and Laser Technology*, **2017**, 92, 85-94	4.2	6
317	Interface induced out-of-plane magnetic anisotropy in magnetoelectric BiFeO3-BaTiO3 superlattices. *Applied Physics Letters*, **2017**, 110, 092902	3.4	12

316	Correlation of Interface Impurities and Chemical Gradients with High Magnetoelectric Coupling Strength in Multiferroic BiFeO-BaTiO Superlattices. *ACS Applied Materials & Interfaces*, **2017**, 9, 18956-18965	9.5	16
315	Charge transfer-induced magnetic exchange bias and electron localization in (111)- and (001)-oriented LaNiO3/LaMnO3 superlattices. *Applied Physics Letters*, **2017**, 110, 102403	3.4	19
314	Ferromagnetic phase transition and single-gap type electrical conductivity of epitaxial LaMnO3/LaAlO3superlattices. *Journal Physics D: Applied Physics*, **2017**, 50, 43LT02	3	2
313	Two-dimensional Frank-van-der-Merwe growth of functional oxide and nitride thin film superlattices by pulsed laser deposition. *Journal of Materials Research*, **2017**, 32, 3936-3946	2.5	7
312	Structure and cation distribution of (Mn0.5Zn0.5)Fe2O4 thin films on SrTiO3(001). *Journal of Applied Physics*, **2017**, 121, 225305	2.5	1
311	Transparent flexible thermoelectric material based on non-toxic earth-abundant p-type copper iodide thin film. *Nature Communications*, **2017**, 8, 16076	17.4	164
310	Surface chemistry evolution of F-doped Ni-base superalloy upon heat treatment. *Materials and Corrosion - Werkstoffe Und Korrosion*, **2017**, 68, 220-227	1.6	1
309	Magnetic activity of surface plasmon resonance using dielectric magnetic materials fabricated on quartz glass substrate. *Japanese Journal of Applied Physics*, **2016**, 55, 07MC05	1.4	1
308	Induced ferromagnetism and magnetoelectric coupling in ion-beam synthesized BiFeO3□CoFe2O4nanocomposite thin films. *Journal Physics D: Applied Physics*, **2016**, 49, 325302	3	15
307	Room-temperature Domain-epitaxy of Copper Iodide Thin Films for Transparent CuI/ZnO Heterojunctions with High Rectification Ratios Larger than 10(9). *Scientific Reports*, **2016**, 6, 21937	4.9	69
306	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	11.5	126
305	Comparative study of optical and magneto-optical properties of normal, disordered, and inverse spinel-type oxides. *Physica Status Solidi (B): Basic Research*, **2016**, 253, 429-436	1.3	18
304	Evaluation of the bond quality of laser-joined sapphire wafers using a fresnoite-glass sealant. *Microsystem Technologies*, **2016**, 22, 207-214	1.7	8
303	Laser-welded fused silica substrates using a luminescent fresnoite-based sealant. *Optics and Laser Technology*, **2016**, 80, 176-185	4.2	10
302	Correlation of High Magnetoelectric Coupling with Oxygen Vacancy Superstructure in Epitaxial Multiferroic BaTiO□BiFeO□Composite Thin Films. *Materials*, **2016**, 9,	3.5	14
301	Epitaxial Coherence at Interfaces as Origin of High Magnetoelectric Coupling in Multiferroic BaTiO3□BiFeO3 Superlattices. *Advanced Materials Interfaces*, **2016**, 3, 1500822	4.6	25
300	Confinement-driven metal-insulator transition and polarity-controlled conductivity of epitaxial LaNiO3/LaAlO3 (111) superlattices. *Applied Physics Letters*, **2016**, 109, 082108	3.4	11
299	Visible-blind and solar-blind ultraviolet photodiodes based on (InxGa1□)2O3. *Applied Physics Letters*, **2016**, 108, 123503	3.4	33

298	Strong out-of-plane magnetic anisotropy in ion irradiated anatase TiO2 thin films. *AIP Advances*, **2016**, 6, 125009	1.5	10
297	Temperature dependent self-compensation in Al- and Ga-doped Mg0.05 Zn0.95O thin films grown by pulsed laser deposition. *Journal of Applied Physics*, **2016**, 120, 205703	2.5	3
296	Fundamental absorption edges in heteroepitaxial YBiO3 thin films. *Journal of Applied Physics*, **2016**, 120, 125702	2.5	1
295	Laser soldering of sapphire substrates using a BaTiAl6O12 thin-film glass sealant. *Optics and Laser Technology*, **2016**, 81, 153-161	4.2	7
294	The 2016 oxide electronic materials and oxide interfaces roadmap. *Journal Physics D: Applied Physics*, **2016**, 49, 433001	3	204
293	Magnetic spin structure and magnetoelectric coupling in BiFeO3-BaTiO3 multilayer. *Applied Physics Letters*, **2015**, 106, 082904	3.4	22
292	Modeling the conductivity around the dimensionality-controlled metal-insulator transition in LaNiO3/LaAlO3 (100) superlattices. *Applied Physics Letters*, **2015**, 106, 042103	3.4	11
291	Electronic excitations and structure of Li2IrO3 thin films grown on ZrO2:Y (001) substrates. *Journal of Applied Physics*, **2015**, 117, 025304	2.5	8
290	Lattice parameters and Raman-active phonon modes of □(AlxGa1□)2O3. *Journal of Applied Physics* , **2015**, 117, 125703	2.5	59
289	Dielectric function in the spectral range (0.5□8.5)eV of an (Alx Ga1□)2O3 thin film with continuous composition spread. *Journal of Applied Physics*, **2015**, 117, 165307	2.5	37
288	Aluminium- and gallium-doped homoepitaxial ZnO thin films: Strain-engineering and electrical performance. *Physica Status Solidi (A) Applications and Materials Science*, **2015**, 212, 1440-1447	1.6	3
287	LaNiO3 films with tunable out-of-plane lattice parameter and their strain-related electrical properties. *Physica Status Solidi (A) Applications and Materials Science*, **2015**, 212, 1925-1930	1.6	4
286	Doping efficiency and limits in (Mg,Zn)O:Al,Ga thin films with two-dimensional lateral composition spread. *Physica Status Solidi (A) Applications and Materials Science*, **2015**, 212, 2850-2855	1.6	13
285	Local zincblende coordination in heteroepitaxial wurtzite Zn1□MgxO:Mn thin films with 0.01 □x□ 0.04 identified by electron paramagnetic resonance. *Journal of Materials Chemistry C*, **2015**, 3, 11918-11929	7.1	2
284	Properties of Schottky Barrier Diodes on (In(x)Ga(1-x))□□For 0.01 □x□0.85 Determined by a Combinatorial Approach. *ACS Combinatorial Science*, **2015**, 17, 710-5	3.9	23
283	Correlation of magnetoelectric coupling in multiferroic BaTiO3-BiFeO3 superlattices with oxygen vacancies and antiphase octahedral rotations. *Applied Physics Letters*, **2015**, 106, 012905	3.4	49
282	Structural and optical properties of (In,Ga)2O3 thin films and characteristics of Schottky contacts thereon. *Semiconductor Science and Technology*, **2015**, 30, 024005	1.8	47
281	From high-Tcsuperconductors to highly correlated Mott insulators□25 years of pulsed laser deposition of functional oxides in Leipzig. *Semiconductor Science and Technology*, **2015**, 30, 024003	1.8	3

280	Laser welding of sapphire wafers using a thin-film fresnoite glass solder. *Microsystem Technologies*, **2015**, 21, 1035-1045	1.7	11
279	Multiferroic BaTiO3BiFeO3composite thin films and multilayers: strain engineering and magnetoelectric coupling. *Journal Physics D: Applied Physics*, **2014**, 47, 135303	3	83
278	25 years of pulsed laser deposition. *Journal Physics D: Applied Physics*, **2014**, 47, 030301	3	29
277	Electronic transitions and dielectric function tensor of a YMnO3 single crystal in the NIR-VUV spectral range. *RSC Advances*, **2014**, 4, 33549-33554	3.7	11
276	Local lattice distortions in oxygen deficient Mn-doped ZnO thin films, probed by electron paramagnetic resonance. *Journal of Materials Chemistry C*, **2014**, 2, 4947	7.1	26
275	(55)Mn pulsed ENDOR spectroscopy of Mn(2+) ions in ZnO thin films and single crystal. *Journal of Magnetic Resonance*, **2014**, 245, 79-86	3	6
274	Highly textured fresnoite thin films synthesizedin situby pulsed laser deposition with CO2laser direct heating. *Journal Physics D: Applied Physics*, **2014**, 47, 034013	3	11
273	Layer-by-layer growth of TiN by pulsed laser deposition on in-situ annealed (100) MgO substrates. *Physica Status Solidi (A) Applications and Materials Science*, **2014**, 211, 2621-2624	1.6	14
272	Determination of the spontaneous polarization of wurtzite (Mg,Zn)O. *Applied Physics Letters*, **2014**, 104, 192102	3.4	11
271	X-ray multiple diffraction of ZnO substrates and heteroepitaxial thin films. *Physica Status Solidi (B): Basic Research*, **2014**, 251, 850-863	1.3	6
270	Interface charging effects in ferroelectric ZnOBaTiO3 field-effect transistor heterostructures. *Physica Status Solidi (A) Applications and Materials Science*, **2014**, 211, 166-172	1.6	6
269	Lattice parameters and Raman-active phonon modes of (InxGa1)2O3 for x . *Journal of Applied Physics*, **2014**, 116, 013505	2.5	45
268	Modeling the electrical transport in epitaxial undoped and Ni-, Cr-, and W-doped TiO2 anatase thin films. *Applied Physics Letters*, **2014**, 105, 062103	3.4	16
267	Cuprous iodide a p-type transparent semiconductor: history and novel applications. *Physica Status Solidi (A) Applications and Materials Science*, **2013**, 210, 1671-1703	1.6	111
266	Degenerate interface layers in epitaxial scandium-doped ZnO thin films. *Journal Physics D: Applied Physics*, **2013**, 46, 065311	3	14
265	Determination of unscreened exciton states in polar ZnO/(Mg,Zn)O quantum wells with strong quantum-confined Stark effect. *Physical Review B*, **2013**, 88,	3.3	5
264	Vacuum ultraviolet dielectric function of ZnFe2O4 thin films. *Journal of Applied Physics*, **2013**, 113, 073503	2.5	14
263	Effect of rare-earth ion doping on the multiferroic properties of BiFeO3thin films grown epitaxially on SrTiO3(1 0 0). *Journal Physics D: Applied Physics*, **2013**, 46, 175006	3	45

262	Growth control of nonpolar and polar quantum wells by pulsed-laser deposition. *Journal of Crystal Growth*, **2013**, 364, 81-87	1.6	9
261	Magnetic anisotropy of epitaxial zinc ferrite thin films grown by pulsed laser deposition. *Thin Solid Films*, **2013**, 527, 273-277	2.2	12
260	Excitonic and Optical Confinement in Microwire Heterostructures with Nonpolar (Zn,Cd)O/(Mg,Zn)O Multiple Quantum Wells. *Journal of Physical Chemistry C*, **2013**, 117, 9020-9024	3.8	5
259	On the transition point of thermally activated conduction of spinel-type MFe2O4 ferrite thin films (M = Zn, Co, Ni). *Applied Physics Letters*, **2013**, 102, 172104	3.4	23
258	Defect-induced magnetism in homoepitaxial manganese-stabilized zirconia thin films. *Journal Physics D: Applied Physics*, **2013**, 46, 275002	3	15
257	Temperature dependent dielectric function in the near-infrared to vacuum-ultraviolet ultraviolet spectral range of alumina and yttria stabilized zirconia thin films. *Journal of Applied Physics*, **2013**, 114, 223509	2.5	2
256	Mott variable-range hopping and weak antilocalization effect in heteroepitaxial Na2IrO3 thin films. *Physical Review B*, **2013**, 88,	3.3	39
255	Martensitic phase transition and subsequent surface corrugation in manganese stabilized zirconia thin films. *Philosophical Magazine*, **2013**, 93, 2329-2339	1.6	
254	Cuprous iodide □a p-type transparent semiconductor: history and novel applications (Phys. Status Solidi A 9□2013). *Physica Status Solidi (A) Applications and Materials Science*, **2013**, 210,	1.6	86
253	(Zn,Cd)O thin films for the application in heterostructures: Structural and optical properties. *Journal of Applied Physics*, **2012**, 112, 103517	2.5	16
252	Exchange bias and magnetodielectric coupling effects in ZnFe2O4□BaTiO3 composite thin films. *CrystEngComm*, **2012**, 14, 6477	3.3	25
251	Persistent layer-by-layer growth for pulsed-laser homoepitaxy of $(000bar 1)$ ZnO. *Physica Status Solidi - Rapid Research Letters*, **2012**, 6, 433-435	2.5	7
250	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, 063701	2.5	21
249	Exciton localization and phonon sidebands in polar ZnO/MgZnO quantum wells. *Physical Review B*, **2012**, 86,	3.3	11
248	Visible emission from ZnCdO/ZnO multiple quantum wells. *Physica Status Solidi - Rapid Research Letters*, **2012**, 6, 31-33	2.5	17
247	Electrical transport in strained MgxZn1□O:P thin films grown by pulsed laser deposition on ZnO(000-1). *Physica Status Solidi (B): Basic Research*, **2012**, 249, 82-90	1.3	4
246	Design rules of (Mg,Zn)O-based thin-film transistors with high-□WO3 dielectric gates. *Applied Physics Letters*, **2012**, 101, 183502	3.4	6
245	Excitonic transport in ZnO. *Journal of Materials Research*, **2012**, 27, 2225-2231	2.5	20

244	Electrical transport and optical emission of MnxZr1-xO2(0≤x≤0.5) thin films. *Journal of Applied Physics*, **2011**, 110, 043706	2.5	6
243	MgZnO/ZnO quantum well nanowire heterostructures with large confinement energies. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2011**, 29, 03A104	2.9	9
242	Ferrimagnetic ZnFe2O4 thin films on SrTiO3 single crystals with highly tunable electrical conductivity. *Physica Status Solidi - Rapid Research Letters*, **2011**, 5, 438-440	2.5	23
241	Tungsten oxide as a gate dielectric for highly transparent and temperature-stable zinc-oxide-based thin-film transistors. *Advanced Materials*, **2011**, 23, 5383-6	24	29
240	Fresnoite thin films grown by pulsed laser deposition: photoluminescence and laser crystallization. *CrystEngComm*, **2011**, 13, 6377	3.3	26
239	Semiconducting oxide heterostructures. *Semiconductor Science and Technology*, **2011**, 26, 014040	1.8	8
238	Thermal stability of ZnO/ZnCdO/ZnO double heterostructures grown by pulsed laser deposition. *Journal of Crystal Growth*, **2011**, 328, 13-17	1.6	7
237	Optical properties of BaTiO3/ZnO heterostructures under the effect of an applied bias. *Thin Solid Films*, **2011**, 519, 2933-2935	2.2	10
236	Hafnium oxide thin films studied by time differential perturbed angular correlations. *Journal of Applied Physics*, **2011**, 109, 113918	2.5	1
235	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		21
234	Interface effects in ZnO metal-insulator-semiconductor and metal-semiconductor structures **2010**,		1
233	Electrical Control of Magnetoresistance in Highly Insulating Co-Doped ZnO. *Japanese Journal of Applied Physics*, **2010**, 49, 043002	1.4	3
232	Control of interface abruptness of polar MgZnO/ZnO quantum wells grown by pulsed laser deposition. *Applied Physics Letters*, **2010**, 97, 052101	3.4	32
231	Low-temperature processed Schottky-gated field-effect transistors based on amorphous gallium-indium-zinc-oxide thin films. *Applied Physics Letters*, **2010**, 97, 243506	3.4	47
230	Identification of a donor-related recombination channel in ZnO thin films. *Physical Review B*, **2010**, 81,	3.3	14
229	Interface polarization coupling in piezoelectric-semiconductor ferroelectric heterostructures. *Physical Review B*, **2010**, 81,	3.3	35
228	Competing exciton localization effects due to disorder and shallow defects in semiconductor alloys. *New Journal of Physics*, **2010**, 12, 033030	2.9	11
227	Defect-induced ferromagnetism in undoped and Mn-doped zirconia thin films. *Physical Review B*, **2010**, 82,	3.3	57

226	Luminescence properties of ZnO/Zn1□CdxO/ZnO double heterostructures. *Journal of Applied Physics*, **2010**, 107, 093530	2.5	14
225	Origin of the near-band-edge luminescence in MgxZn1□O alloys. *Journal of Applied Physics*, **2010**, 107, 013704	2.5	21
224	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		23
223	Occurrence of rotation domains in heteroepitaxy. *Physical Review Letters*, **2010**, 105, 146102	7.4	62
222	Ag related defect state in ZnO thin films **2010**,		4
221	PLD Growth of High Reflective All-Oxide Bragg Reflectors for ZnO Resonators **2010**,		3
220	Resistivity control of ZnO nanowires by Al doping. *Physica Status Solidi - Rapid Research Letters*, **2010**, 4, 82-84	2.5	14
219	Two-dimensional electron gases in MgZnO/ZnO heterostructures **2010**,		1
218	The E3 Defect in Mg x Zn1□ O. *Journal of Electronic Materials*, **2010**, 39, 584-588	1.9	6
217	Dielectric Passivation of ZnO-Based Schottky Diodes. *Journal of Electronic Materials*, **2010**, 39, 559-562	1.9	12
216	Shallow Donors and Compensation in Homoepitaxial ZnO Thin Films. *Journal of Electronic Materials*, **2010**, 39, 595-600	1.9	5
215	Recent progress on ZnO-based metal-semiconductor field-effect transistors and their application in transparent integrated circuits. *Advanced Materials*, **2010**, 22, 5332-49	24	122
214	Optical properties of homo- and heteroepitaxial ZnO/MgxZn1-xO single quantum wells grown by pulsed-laser deposition. *Journal of Luminescence*, **2010**, 130, 520-526	3.8	30
213	Homoepitaxial MgxZn1□O (0□□.22) thin films grown by pulsed laser deposition. *Thin Solid Films*, **2010**, 518, 4623-4629	2.2	8
212	Transparent semiconducting oxides: materials and devices. *Physica Status Solidi (A) Applications and Materials Science*, **2010**, 207, 1437-1449	1.6	120
211	Electronic coupling in ZnO/MgxZn1□O double quantum wells grown by pulsed-laser deposition. *Physica Status Solidi (B): Basic Research*, **2010**, 247, 398-404	1.3	8
210	Self-organized growth of ZnO-based nano- and microstructures. *Physica Status Solidi (B): Basic Research*, **2010**, 247, 1265-1281	1.3	38
209	Whispering gallery modes in zinc oxide micro- and nanowires. *Physica Status Solidi (B): Basic Research*, **2010**, 247, 1282-1293	1.3	66

208	Resistive hysteresis and interface charge coupling in BaTiO3-ZnO heterostructures. *Applied Physics Letters*, **2009**, 94, 142904	3.4	49
207	ZnO-based metal-semiconductor field-effect transistors on glass substrates. *Applied Physics Letters*, **2009**, 95, 153503	3.4	14
206	MgZnO:P homoepitaxy by pulsed laser deposition: pseudomorphic layer-by-layer growth and high electron mobility **2009**,		8
205	Temperature dependence of localization effects of excitons in ZnO□dxZn1□xO□ZnO double heterostructures. *Journal of Vacuum Science & Technology B*, **2009**, 27, 1741		16
204	Dopant activation in homoepitaxial MgZnO:P thin films. *Journal of Vacuum Science & Technology B*, **2009**, 27, 1604		7
203	Strong exciton-photon coupling in ZnO based resonators. *Journal of Vacuum Science & Technology B* , **2009**, 27, 1726		10
202	Optical characterization of zinc oxide microlasers and microwire core-shell heterostructures. *Journal of Vacuum Science & Technology B*, **2009**, 27, 1780		6
201	Electrical properties of ZnO□BaTiO3□ZnO heterostructures with asymmetric interface charge distribution. *Applied Physics Letters*, **2009**, 95, 082902	3.4	22
200	Electronic coupling in MgxZn1□xO/ZnO double quantum wells. *Journal of Vacuum Science & Technology B*, **2009**, 27, 1735		6
199	Light beam induced current measurements on ZnO Schottky diodes and MESFETs. *Materials Research Society Symposia Proceedings*, **2009**, 1201, 84		2
198	ZnO-based MESFET Devices. *Materials Research Society Symposia Proceedings*, **2009**, 1201, 30		1
197	Magnetic and structural properties of transition metal doped zinc-oxide nanostructures. *Physica Status Solidi (B): Basic Research*, **2009**, 246, 766-770	1.3	10
196	Formation of a two-dimensional electron gas in ZnO/MgZnO single heterostructures and quantum wells. *Thin Solid Films*, **2009**, 518, 1048-1052	2.2	30
195	Ferromagnetic transition metal implanted ZnO: A diluted magnetic semiconductor?. *Vacuum*, **2009**, 83, S13-S19	3.7	38
194	Paramagnetism in Co-doped ZnO films. *Journal Physics D: Applied Physics*, **2009**, 42, 085001	3	36
193	Homogeneous core/shell ZnO/ZnMgO quantum well heterostructures on vertical ZnO nanowires. *Nanotechnology*, **2009**, 20, 305701	3.4	39
192	Defect-induced magnetic order in pure ZnO films. *Physical Review B*, **2009**, 80,	3.3	257
191	Anionic and cationic substitution in ZnO. *Progress in Solid State Chemistry*, **2009**, 37, 153-172	8	81

190	Properties of reactively sputtered Ag, Au, Pd, and Pt Schottky contacts on n-type ZnO. *Journal of Vacuum Science & Technology B*, **2009**, 27, 1769		68
189	Ferroelectric thin film field-effect transistors based on ZnO/BaTiO3 heterostructures. *Journal of Vacuum Science & Technology B*, **2009**, 27, 1789		25
188	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		17
187	Zinc oxide nanorod based photonic devices: recent progress in growth, light emitting diodes and lasers. *Nanotechnology*, **2009**, 20, 332001	3.4	503
186	Pulsed Laser Deposition of ZnO-Based Thin Films. *Springer Series in Materials Science*, **2008**, 303-357	0.9	40
185	Room temperature ferromagnetism in ZnO films due to defects. *Applied Physics Letters*, **2008**, 92, 082508	3.4	310
184	Fe-implanted ZnO: Magnetic precipitates versus dilution. *Journal of Applied Physics*, **2008**, 103, 023902	2.5	46
183	Intense white photoluminescence emission of V-implanted zinc oxide thin films. *Journal of Applied Physics*, **2008**, 104, 123504	2.5	24
182	Room temperature ferromagnetism in Nd- and Mn-codoped ZnO films. *Journal Physics D: Applied Physics*, **2008**, 41, 105012	3	23
181	Two-dimensional electron gas density in Al1−InxN/AlN/GaN heterostructures (0.03≤≤0.23). *Journal of Applied Physics*, **2008**, 103, 093714	2.5	138
180	Spatial fluctuations of optical emission from single ZnO/MgZnO nanowire quantum wells. *Nanotechnology*, **2008**, 19, 115202	3.4	36
179	Interface-charge-coupled polarization response model of Pt-BaTiO3-ZnO-Pt heterojunctions: Physical parameters variation. *Materials Research Society Symposia Proceedings*, **2008**, 1074, 1		
178	Room temperature ferromagnetism in carbon-implanted ZnO. *Applied Physics Letters*, **2008**, 93, 232507	3.4	178
177	Whispering gallery mode lasing in zinc oxide microwires. *Applied Physics Letters*, **2008**, 92, 241102	3.4	178
176	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
175	ZnO metal-semiconductor field-effect transistors with Ag-Schottky gates. *Applied Physics Letters*, **2008**, 92, 192108	3.4	62
174	Spin manipulation in Co-doped ZnO. *Physical Review Letters*, **2008**, 101, 076601	7.4	55
173	Phosphorous doped ZnO nanowires: acceptor-related cathodoluminescence and p-type conducting FET-characteristics **2008**,		2

172	Electronic properties of shallow level defects in ZnO grown by pulsed laser deposition. *Journal of Physics: Conference Series*, **2008**, 100, 042038	0.3	4
171	Properties of homoepitaxial ZnO and ZnO:P thin films grown by pulsed-laser deposition **2008**,		2
170	Exciton□polariton formation at room temperature in a planar ZnO resonator structure. *Applied Physics B: Lasers and Optics*, **2008**, 93, 331-337	1.9	40
169	Interface-Charge-Coupled Polarization Response of Pt-BaTiO3-ZnO-Pt Heterojunctions: A Physical Model Approach. *Journal of Electronic Materials*, **2008**, 37, 1029-1034	1.9	19
168	Investigation of the free charge carrier properties at the ZnO-sapphire interface in a-plane ZnO films studied by generalized infrared ellipsometry. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2008**, 5, 1350-1353		2
167	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		17
166	Electrooptic ellipsometry study of piezoelectric BaTiO3-ZnO heterostructures. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2008**, 5, 1328-1331		4
165	Homoepitaxial ZnO thin films by PLD: Structural properties. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2008**, 5, 3280-3287		22
164	MOVPE growth of GaN around ZnO nanopillars. *Journal of Crystal Growth*, **2008**, 310, 5139-5142	1.6	11
163	Magnetotransport properties of Zn90Mn7.5Cu2.5O100 films. *Thin Solid Films*, **2008**, 516, 1160-1163	2.2	9
162	Magnetic and transport properties of Cu1.05Cr0.89 Mg0.05O2 and Cu0.96Cr0.95 Mg0.05Mn0.04O2 films. *Thin Solid Films*, **2008**, 516, 8543-8546	2.2	
161	Growth and Characterization of ZnO Nano- and Microstructures **2008**, 293-323		2
160	p-type conducting ZnO:P microwires prepared by direct carbothermal growth. *Physica Status Solidi - Rapid Research Letters*, **2008**, 2, 37-39	2.5	44
159	ZnO nanowall networks grown on DiMPLA pre-patterned thin gold films. *Physica Status Solidi - Rapid Research Letters*, **2008**, 2, 200-202	2.5	9
158	Structure and optical properties of ZnO nanowires fabricated by pulsed laser deposition on GaN/Si(111) films with the use of Au and NiO catalysts. *Bulletin of the Russian Academy of Sciences: Physics*, **2008**, 72, 1129-1131	0.4	
157	Dependence of Trap Concentrations in ZnO Thin Films on Annealing Conditions. *Journal of the Korean Physical Society*, **2008**, 53, 2861-2863	0.6	16
156	Vacuum Ultraviolet Dielectric Function and Band Structure of ZnO. *Journal of the Korean Physical Society*, **2008**, 53, 88-93	0.6	7
155	Growth Evolution and Characterization of PLD Zn(Mg)O Nanowire Arrays **2008**, 113-125		3

154	Photocurrent spectroscopy of deep levels in ZnO thin films. *Physical Review B*, **2007**, 76,	3.3	27
153	Photoluminescence of MgxZn1−xO/ZnO Quantum Wells Grown by Pulsed Laser Deposition. *AIP Conference Proceedings*, **2007**,	0	3
152	Temperature dependence of the whispering gallery effect in ZnO nanoresonators. *AIP Conference Proceedings*, **2007**,	0	2
151	ZnO based planar and micropillar resonators. *Superlattices and Microstructures*, **2007**, 41, 360-363	2.8	15
150	Comparative characterization of differently grown ZnO single crystals by positron annihilation and Hall effect. *Superlattices and Microstructures*, **2007**, 42, 259-264	2.8	17
149	Investigation of acceptor states in ZnO by junction DLTS. *Superlattices and Microstructures*, **2007**, 42, 14-20	2.8	4
148	Electrical and magnetic properties of RE-doped ZnO thin films (RE = Gd, Nd). *Superlattices and Microstructures*, **2007**, 42, 231-235	2.8	67
147	Optical whispering gallery modes in dodecagonal zinc oxide microcrystals. *Superlattices and Microstructures*, **2007**, 42, 333-336	2.8	22
146	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	2.8	27
145	Defects in N+ ion-implanted ZnO single crystals studied by positron annihilation and Hall effect. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2007**, 4, 3642-3645		2
144	Homoepitaxy of ZnO by pulsed-laser deposition. *Physica Status Solidi - Rapid Research Letters*, **2007**, 1, 129-131	2.5	38
143	Cathodoluminescence of large-area PLD grown ZnO thin films measured in transmission and reflection. *Applied Physics A: Materials Science and Processing*, **2007**, 88, 89-93	2.6	5
142	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	2.6	28
141	Properties of phosphorus doped ZnO. *Applied Physics A: Materials Science and Processing*, **2007**, 88, 125-128	2.6	24
140	Donor-like defects in ZnO substrate materials and ZnO thin films. *Applied Physics A: Materials Science and Processing*, **2007**, 88, 135-139	2.6	47
139	Pulsed-laser deposition and characterization of ZnO nanowires with regular lateral arrangement. *Applied Physics A: Materials Science and Processing*, **2007**, 88, 31-34	2.6	30
138	Electrical and optical spectroscopy on ZnO:Co thin films. *Applied Physics A: Materials Science and Processing*, **2007**, 88, 157-160	2.6	6
137	A comparison between ZnO films doped with 3d and 4f magnetic ions. *Thin Solid Films*, **2007**, 515, 8761-8763	2.1	33

136	Phosphorus acceptor doped ZnO nanowires prepared by pulsed-laser deposition. *Nanotechnology*, **2007**, 18, 455707	3.4	96
135	Polarization coupling in epitaxial ZnO / BaTiO 3 thin film heterostructures on SrTiO 3 (100) substrates **2007**, 6474, 290		5
134	Ordered growth of tilted ZnO nanowires: morphological, structural and optical characterization. *Nanotechnology*, **2007**, 18, 195303	3.4	42
133	Magnetoresistance and anomalous Hall effect in magnetic ZnO films. *Journal of Applied Physics*, **2007**, 101, 063918	2.5	39
132	Luminescence and surface properties of MgxZn1□O thin films grown by pulsed laser deposition. *Journal of Applied Physics*, **2007**, 101, 083521	2.5	47
131	Co location and valence state determination in ferromagnetic ZnO:Co thin films by atom-location-by-channeling-enhanced-microanalysis electron energy-loss spectroscopy. *Applied Physics Letters*, **2007**, 90, 154101	3.4	15
130	s□ exchange interaction induced magnetoresistance in magnetic ZnO. *Physical Review B*, **2007**, 76,	3.3	61
129	Room temperature ferromagnetism in Mn-doped ZnO films mediated by acceptor defects. *Applied Physics Letters*, **2007**, 91, 092503	3.4	80
128	Temperature-dependence of the refractive index and the optical transitions at the fundamental band-gap of ZnO. *AIP Conference Proceedings*, **2007**,	0	13
127	Valence Band Structure of ZnO and MgxZn1□O. *Materials Research Society Symposia Proceedings*, **2007**, 1035, 1		
126	Microstructure of Transition Metal Doped ZnO Films Investigated by AEM. *Microscopy and Microanalysis*, **2007**, 13, 386-387	0.5	1
125	Electron paramagnetic resonance in transition metal-doped ZnO nanowires. *Journal of Applied Physics*, **2007**, 101, 024324	2.5	29
124	Weak ferromagnetism in textured Zn1□(TM)xO thin films. *Superlattices and Microstructures*, **2006**, 39, 334-339	2.8	14
123	Growth and Characterization of Optical and Electrical Properties of ZnO Nano- and Microwires. *Materials Research Society Symposia Proceedings*, **2006**, 957, 1		1
122	Interface and Luminescence Properties of Pulsed Laser Deposited MgxZn1-xO/ZnO Quantum Wells with Strong Confinement. *Materials Research Society Symposia Proceedings*, **2006**, 957, 1		5
121	Phonon modes, dielectric constants, and exciton mass parameters in ternary MgxZn1□O. *Materials Research Society Symposia Proceedings*, **2006**, 928, 1		1
120	Spin polarization in Zn0.95Co0.05O:(Al,Cu) thin films. *Journal Physics D: Applied Physics*, **2006**, 39, 4920-4924		11
119	Temperature Dependent Hall Measurements on PLD Thin Films. *Materials Research Society Symposia Proceedings*, **2006**, 957, 1		9

118	Defects in virgin and N+-implanted ZnO single crystals studied by positron annihilation, Hall effect, and deep-level transient spectroscopy. *Physical Review B*, **2006**, 74,	3.3	129
117	Deep acceptor states in ZnO single crystals. *Applied Physics Letters*, **2006**, 89, 092122	3.4	63
116	Mean barrier height of Pd Schottky contacts on ZnO thin films. *Applied Physics Letters*, **2006**, 88, 092102	3.4	146
115	Refractive indices and band-gap properties of rocksalt MgxZn1□O (0.68?x?1). *Journal of Applied Physics*, **2006**, 99, 123701	2.5	51
114	Magnetoresistance effects in Zn0.90Co0.10O films. *Journal of Applied Physics*, **2006**, 100, 013904	2.5	26
113	Metal-insulator transition in Co-doped ZnO: Magnetotransport properties. *Physical Review B*, **2006**, 73,	3.3	77
112	Infrared optical properties of MgxZn1□O thin films (0?x?1): Long-wavelength optical phonons and dielectric constants. *Journal of Applied Physics*, **2006**, 99, 113504	2.5	72
111	Structural characterization of a-plane Zn1□CdxO (0?x?0.085) thin films grown by metal-organic vapor phase epitaxy. *Journal of Applied Physics*, **2006**, 99, 023514	2.5	59
110	Fast, high-efficiency, and homogeneous room-temperature cathodoluminescence of ZnO scintillator thin films on sapphire. *Applied Physics Letters*, **2006**, 89, 243510	3.4	27
109	X-ray spectroscopic investigation of forbidden direct transitions in CuGaO2 and CuInO2. *Physica Status Solidi (A) Applications and Materials Science*, **2006**, 203, 2861-2866	1.6	10
108	Ferromagnetic behavior in Zn(Mn, P)O thin films. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2006**, 351, 323-326	2.3	6
107	Room-temperature ferromagnetic Mn-alloyed ZnO films obtained by pulsed laser deposition. *Journal of Magnetism and Magnetic Materials*, **2006**, 307, 212-221	2.8	38
106	Structure and ferromagnetism of Mn+ ion-implanted ZnO thin films on sapphire. *Superlattices and Microstructures*, **2006**, 39, 41-49	2.8	13
105	Deep defects generated in n-conducting ZnO:TM thin films. *Solid State Communications*, **2006**, 137, 417-421	1.6	14
104	Low temperature photoluminescence and infrared dielectric functions of pulsed laser deposited ZnO thin films on silicon. *Thin Solid Films*, **2006**, 496, 234-239	2.2	20
103	Magnetoresistance in pulsed laser deposited 3d transition metal doped ZnO films. *Thin Solid Films*, **2006**, 515, 2549-2554	2.2	18
102	Growth and characterization of Mn- and Co-doped ZnO nanowires. *Mikrochimica Acta*, **2006**, 156, 21-25	5.8	13
101	MgxZn1□O(0?x. *Applied Physics Letters*, **2005**, 86, 143113	3.4	181

100	A novel method for the determination of the flux-creep exponent from higher harmonic ac-susceptibility measurements. *Physica C: Superconductivity and Its Applications*, **2005**, 417, 141-149	1.3	11
99	Elemental depth profiling in Cu(In, Ga)Se2 solar cells using micro-PIXE on a bevelled section. *Nuclear Instruments & Methods in Physics Research B*, **2005**, 231, 440-445	1.2	9
98	Rectifying semiconductor-ferroelectric polarization loops and offsets in Pt□BaTiO3□ZnO□Pt thin film capacitor structures. *Thin Solid Films*, **2005**, 486, 153-157	2.2	31
97	Two-dimensional ZnO:Al nanosheets and nanowalls obtained by Al2O3-assisted carbothermal evaporation. *Thin Solid Films*, **2005**, 486, 191-194	2.2	34
96	EPR study on magnetic Zn1□MnxO. *Superlattices and Microstructures*, **2005**, 38, 413-420	2.8	23
95	Electrical properties of ZnO thin films and optical properties of ZnO-based nanostructures. *Superlattices and Microstructures*, **2005**, 38, 317-328	2.8	25
94	UV optical properties of ferromagnetic Mn-doped ZnO thin films grown by PLD. *Thin Solid Films*, **2005**, 486, 117-121	2.2	65
93	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	2.2	20
92	Incorporation and electrical activity of group V acceptors in ZnO thin films. *AIP Conference Proceedings*, **2005**,	0	6
91	Band-to-band transitions and optical properties of MgxZn1□O (0 ? x ? 1) films. *AIP Conference Proceedings*, **2005**,	0	6
90	Optical Resonances Of Single Zinc Oxide Microcrystals. *AIP Conference Proceedings*, **2005**,	0	2
89	Electron paramagnetic resonance of Zn1□MnxO thin films and single crystals. *Physical Review B*, **2005**, 72,	3.3	58
88	Temperature-dependent dielectric and electro-optic properties of a ZnO-BaTiO3-ZnO heterostructure grown by pulsed-laser deposition. *Applied Physics Letters*, **2005**, 86, 091904	3.4	49
87	Whispering Gallery Modes in Hexagonal Zinc Oxide Micro- and Nanocrystals **2005**, 83-98		1
86	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	2.2	31
85	UV□UV spectroscopic ellipsometry of ternary MgxZn1□O (0□□.53) thin films. *Thin Solid Films*, **2004**, 455-456, 500-504	2.2	38
84	Ion beam analysis of functional layers for CuInSe2 solar cells deposited on polymer foils. *Nuclear Instruments & Methods in Physics Research B*, **2004**, 219-220, 693-698	1.2	4
83	Ion beam analysis of epitaxial (Mg, Cd)xZn1□O and ZnO:(Li, Al, Ga, Sb) thin films grown on c-plane sapphire. *Nuclear Instruments & Methods in Physics Research B*, **2004**, 219-220, 891-896	1.2	16

82	Cathodoluminescence of selected single ZnO nanowires on sapphire. *Annalen Der Physik*, **2004**, 13, 39-42	2.6	47
81	Pulsed laser deposition of Fe- and Fe, Cu-doped ZnO thin films. *Annalen Der Physik*, **2004**, 13, 57-58	2.6	4
80	Advances of pulsed laser deposition of ZnO thin films. *Annalen Der Physik*, **2004**, 13, 59-60	2.6	15
79	Electro-optical properties of ZnO-BaTiO3-ZnO heterostructures grown by pulsed laser deposition. *Annalen Der Physik*, **2004**, 13, 61-62	2.6	14
78	Ion-beam analysis of CuInSe2 solar cells deposited on polyimide foil. *Analytical and Bioanalytical Chemistry*, **2004**, 379, 622-7	4.4	7
77	Distance between vortices in a thin YBa2Cu3O7 film in parallel magnetic field. *Physica B: Condensed Matter*, **2004**, 350, E331-E334	2.8	
76	Spatially Inhomogeneous Impurity Distribution in ZnO Micropillars. *Nano Letters*, **2004**, 4, 797-800	11.5	74
75	Whispering gallery modes in nanosized dielectric resonators with hexagonal cross section. *Physical Review Letters*, **2004**, 93, 103903	7.4	270
74	Infrared dielectric function and phonon modes of Mg-rich cubic MgxZn1⊠O(x?0.67) thin films on sapphire (0001). *Applied Physics Letters*, **2004**, 85, 905-907	3.4	29
73	Lateral homogeneity of Schottky contacts on n-type ZnO. *Applied Physics Letters*, **2004**, 84, 79-81	3.4	95
72	Surface resistance measurements of surface and interface sides of YBa2Cu3O7 films on sapphire and LaAlO3. *Superconductor Science and Technology*, **2003**, 16, 412-415	3.1	4
71	Microwave properties of epitaxial large-area Ca-doped YBa2Cu3O7⊡thin films on r-plane sapphire. *Solid-State Electronics*, **2003**, 47, 2183-2186	1.7	11
70	Dielectric properties of Fe-doped BaxSr1⊠TiO3 thin films on polycrystalline substrates at temperatures between ⊟5 and +85 ⁰C. *Solid-State Electronics*, **2003**, 47, 2199-2203	1.7	20
69	Optical and electrical properties of epitaxial (Mg,Cd)xZn1⊠O, ZnO, and ZnO:(Ga,Al) thin films on c-plane sapphire grown by pulsed laser deposition. *Solid-State Electronics*, **2003**, 47, 2205-2209	1.7	130
68	Mo/Si multilayers for EUV lithography by ion beam sputter deposition. *Vacuum*, **2003**, 71, 407-415	3.7	12
67	Demonstration of surface resistance mapping of large-area HTS films using the dielectric resonator method. *Physica C: Superconductivity and Its Applications*, **2003**, 383, 374-378	1.3	5
66	Excess voltage in the vicinity of the superconducting transition in inhomogeneous YBa2Cu3O7 thin films. *Physica C: Superconductivity and Its Applications*, **2003**, 399, 22-42	1.3	7
65	Infrared dielectric functions and phonon modes of high-quality ZnO films. *Journal of Applied Physics* , **2003**, 93, 126-133	2.5	545

64	Dielectric functions (1 to 5 eV) of wurtzite MgxZn1−xO (x≤0.29) thin films. *Applied Physics Letters*, **2003**, 82, 2260-2262	3.4	157
63	Raman scattering in ZnO thin films doped with Fe, Sb, Al, Ga, and Li. *Applied Physics Letters*, **2003**, 83, 1974-1976	3.4	551
62	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	3.4	539
61	Ion beam analysis of Zn2−xCuxInxS2 films. *Nuclear Instruments & Methods in Physics Research B*, **2002**, 190, 667-672	1.2	
60	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	1.3	15
59	Investigation of temperature features forming the passband of microwave HTSc band-pass filter. *Physica C: Superconductivity and Its Applications*, **2002**, 372-376, 529-531	1.3	2
58	High-quality reproducible PLD YBa2Cu3O7:Ag thin films up to 4 inch diameter for microwave applications. *Physica C: Superconductivity and Its Applications*, **2002**, 372-376, 587-589	1.3	9
57	Infrared dielectric functions and phonon modes of wurtzite MgxZn1−xO (x≤0.2). *Applied Physics Letters*, **2002**, 81, 2376-2378	3.4	64
56	Electron emission from arc-modified diamond-like carbon films at low electric field. *Applied Surface Science*, **2001**, 182, 142-149	6.7	1
55	Effect of Growth-Induced Linear Defects on High Frequency Properties of Pulse-Laser Deposited YBa2Cu3O7−δ Films. *Journal of Superconductivity and Novel Magnetism*, **2001**, 14, 105-114		8
54	Band-Pass Filters for 1.8 GHz Frequency Range Using Double-Sided YBCO/Au Films on CeO2-Buffered Sapphire. *Journal of Superconductivity and Novel Magnetism*, **2001**, 14, 115-125		3
53	Macroscopic and microstructural properties of CSixNy thin films deposited by RF nitrogen-plasma-assisted pulsed laser deposition. *Applied Surface Science*, **2001**, 179, 156-160	6.7	7
52	Linear defects in epitaxial Y-Ba-Cu-O films: their role in anisotropic vortex pinning and microwave surface resistance. *IEEE Transactions on Applied Superconductivity*, **2001**, 11, 3960-3963	1.8	14
51	High-quality Y-Ba-Cu-O thin films by PLD-ready for market applications. *IEEE Transactions on Applied Superconductivity*, **2001**, 11, 3209-3212	1.8	49
50	Defect structure of monocrystalline -oriented Zn0.62Cu0.19In0.19S films grown on GaP by pulsed laser deposition (PLD). *Journal of Crystal Growth*, **2000**, 209, 68-74	1.6	7
49	Structural properties of thin Zn0.62Cu0.19In0.19S alloy films grown on Si(111) substrates by pulsed laser deposition. *Thin Solid Films*, **2000**, 358, 80-85	2.2	9
48	CuAu-I type ordering and orientation domains in tetragonal Zn2−xCuxInxS2 films (0.78≤x≤1) crystallized on (001) gallium phosphide by pulsed laser deposition. *Thin Solid Films*, **2000**, 376, 82-88	2.2	9
47	Magnetic field distribution around flux-lines in YBa2Cu3O7 superconducting thin films in a parallel field. *Physica B: Condensed Matter*, **2000**, 276-278, 776-777	2.8	5

46	Observation of proximity effect in YBCO/Au bilayer films by microwave surface resistance measurements. *Physica B: Condensed Matter*, **2000**, 284-288, 915-916	2.8	2
45	Defect Structure of Heteroepitaxial Zn2-2xCuxInxS2Layers Grown by Pulsed Laser Deposition on (111) Si, (001) Si and (001) GaP Substrates. *Japanese Journal of Applied Physics*, **2000**, 39, 210	1.4	2
44	Depinning of a driven vortex lattice in high-Tc films. *Physical Review B*, **1999**, 60, 4293-4301	3.3	10
43	Quench propagation in large area YBCO films. *IEEE Transactions on Applied Superconductivity*, **1999**, 9, 1089-1092	1.8	11
42	Microstructure and microwave surface resistance of YBaCuO thin films. *IEEE Transactions on Applied Superconductivity*, **1999**, 9, 2171-2174	1.8	12
41	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	2.2	50
40	Magnetic flux distribution inside an YBa2Cu3O7 superconducting thin film in the mixed state. *Physica B: Condensed Matter*, **1999**, 267-268, 149-153	2.8	11
39	Adjusting chemical bonding of hard amorphous CSixNy thin films by N*-plasma-assisted pulsed laser deposition. *Applied Physics A: Materials Science and Processing*, **1999**, 69, S899-S903	2.6	1
38	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	2.6	14
37	XANES and XPS characterization of hard amorphous CSixNy thin films grown by RF nitrogen plasma assisted pulsed laser deposition. *FreseniusgJournal of Analytical Chemistry*, **1999**, 365, 244-248		11
36	Thermally Activated Depinning of a Driven Flux Line Lattice. *Physica Status Solidi (B): Basic Research*, **1999**, 215, 573-578	1.3	1
35	Nondestructive magneto-optical characterization of natural and artificial defects on 3" HTSC wafers at liquid nitrogen temperature. *IEEE Transactions on Applied Superconductivity*, **1999**, 9, 1840-1843	1.8	3
34	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	1.8	15
33	Microstructure and microwave surface resistance of typical YBaCuO thin films on sapphire and LaAlO3. *Superconductor Science and Technology*, **1999**, 12, 366-375	3.1	29
32	Mechanical and Chemical Properties of CBxNy and CSixNy Thin Films Grown by N*-Plasma Assisted Pulsed Laser Deposition. *Materials Research Society Symposia Proceedings*, **1999**, 593, 541		2
31	Microstructure of YBCO and YBCO/SrTiO3/YBCO* PLD Thin Films on Sapphire for Microwave Applications. *Materials Research Society Symposia Proceedings*, **1999**, 603, 163		2
30	Nonlocal In-Plane Resistance due to Vortex-Antivortex Dynamics in High- Tc Superconducting Films. *Physical Review Letters*, **1998**, 80, 4048-4051	7.4	9
29	Exchange anisotropy in epitaxial Fe3O4/CoO and Fe3O4/CoxFe3−xO4 bilayers grown by pulsed laser deposition. *Journal of Applied Physics*, **1998**, 84, 5097-5104	2.5	32

28	Nonlinear ac susceptibility of high temperature superconducting rings. *Applied Physics Letters*, **1997**, 70, 898-900	3.4	15
27	ac susceptibility of structured YBa2Cu3O7 thin films in transverse magnetic ac fields. *Physical Review B*, **1997**, 55, 11816-11822	3.3	36
26	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	1.8	27
25	Back-to-back substrate wafer bonding: A new approach to the fabrication of double-side coated wafers. *Applied Physics A: Materials Science and Processing*, **1997**, 64, 211-212	2.6	3
24	X-ray diffraction measurements and depth profiling by secondary neutral mass spectrometry on epitaxially grown high-Tc superconducting thin films. *Mikrochimica Acta*, **1997**, 125, 211-217	5.8	1
23	Magnetic Properties of Epitaxial Fe3O4 Films. *European Physical Journal Special Topics*, **1997**, 07, C1-593-C1-594		5
22	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	1.3	39
21	Observation of Cu vacancies and their ordering in YBa2Cu4O8. *Applied Physics Letters*, **1996**, 69, 1151-1153	3.4	2
20	Large-area double-side pulsed laser deposition of YBa2Cu3O7−x thin films on 3-in. sapphire wafers. *Applied Physics Letters*, **1996**, 68, 3332-3334	3.4	85
19	Microcracks observed in epitaxial thin films of YBa2 Cu3O7−δ and GdBa2Cu3O7−δ *Physica Status Solidi A*, **1995**, 150, 381-394		31
18	Microstructure defects in YBCO thin films. *Physica C: Superconductivity and Its Applications*, **1995**, 243, 281-293	1.3	46
17	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	2.8	34
16	Optimization of large area pulsed laser deposition of YBaCuO thin films by SNMS depth profiling and rutherford backscattering. *FreseniusgJournal of Analytical Chemistry*, **1995**, 353, 619-624		3
15	Sputtered and Reactively Grown Epitaxial GdAlO3 Films as Buffer Layers for C-Oriented YBa2Cu3O7-δ Films on R-Sapphire. *Materials Research Society Symposia Proceedings*, **1995**, 401, 357		3
14	Inductive determination of the critical current density of superconducting thin films without lateral structuring. *Physica C: Superconductivity and Its Applications*, **1994**, 220, 209-214	1.3	23
13	Large area pulsed laser deposition of YBCO thin films on 3-inch wafers. *Physica C: Superconductivity and Its Applications*, **1994**, 235-240, 639-640	1.3	5
12	Large Area Pulsed Laser Deposition of YBCO Thin Films and Buffer Layers on 3-Inch Wafers. *Materials Research Society Symposia Proceedings*, **1994**, 341, 189		14
11	Depth profiling of HTSC thin films by secondary neutral mass spectrometry **1994**, 545-548		

10	Depth profiling of Bi-Sr-Ca-Cu-O thin films by secondary neutrals mass spectroscopy. *Physica C: Superconductivity and Its Applications*, **1993**, 215, 445-457	1.3	6
9	SNMS and XRD investigations of laser deposited YSZ buffer layers. *FreseniusgJournal of Analytical Chemistry*, **1993**, 346, 169-172		5
8	Excimer Laser Induced Deposition of BiSrCaCuO HTSC Thin Films and Buffer Layers - Depth Profiling by SNMS. *Materials Research Society Symposia Proceedings*, **1992**, 285, 275		
7	Stoichiometric and structural analyses of thin high-Tc superconducting Bi-Sr-Ca-Cu-O films on silicon. *FreseniusgJournal of Analytical Chemistry*, **1991**, 341, 292-295		3
6	On the phase formation of laser deposited Bi-Sr-Ca-Cu-O films on MgO, ZrO2 and silicon with YSZ buffer layers. *Physica C: Superconductivity and Its Applications*, **1991**, 182, 114-118	1.3	12
5	Bestimmung der Dicke und der Zusammensetzung von TiNx- und TiCy-Schichten mittels niederenergetischer Ionenstrahlen. *Isotopes in Environmental and Health Studies*, **1990**, 26, 485-488		
4	Effect of L-shell spectator vacancy on X-ray fluorescence yields and relative intensities. *Journal of Physics B: Atomic and Molecular Physics*, **1987**, 20, 6189-6195		10
3	Refractive index dispersion and its temperature dependence in GaS. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **1983**, 99, 437-440	2.3	3
2	Design and investigation of microwave bandpass filters for L- and R-frequency bands based on high-temperature superconducting films		1
1	Strain states and relaxation for (alpha)-(Al(_x)Ga(_{1-x}))(_2)O(_3) thin films on prismatic planes of (alpha)-Al(_2)O(_3) in the full composition range: Fundamental difference of a- and m-epitaxial planes in the manifestation of shear strain and lattice tilt. *Journal of Materials Research*,1	2.5	1