Marius Grundmann

List of Publications by Citations

741 papers	25,684 citations	74 h-index	136 g-index
804 ext. papers	27,795 ext. citations	3.1 avg, IF	6.97 L-index

#	Paper	IF	Citations
741	InAs/GaAs pyramidal quantum dots: Strain distribution, optical phonons, and electronic structure. *Physical Review B*, **1995**, 52, 11969-11981	3.3	1062
740	Electronic and optical properties of strained quantum dots modeled by 8-band k?p theory. *Physical Review B*, **1999**, 59, 5688-5701	3.3	908
739	Low threshold, large To injection laser emission from (InGa)As quantum dots. *Electronics Letters*, **1994**, 30, 1416-1417	1.1	662
738	Ultranarrow Luminescence Lines from Single Quantum Dots. *Physical Review Letters*, **1995**, 74, 4043-4046	7.4	645
737	Raman scattering in ZnO thin films doped with Fe, Sb, Al, Ga, and Li. *Applied Physics Letters*, **2003**, 83, 1974-1976	3.4	551
736	Infrared dielectric functions and phonon modes of high-quality ZnO films. *Journal of Applied Physics* , **2003**, 93, 126-133	2.5	545
735	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
734	Zinc oxide nanorod based photonic devices: recent progress in growth, light emitting diodes and lasers. *Nanotechnology*, **2009**, 20, 332001	3.4	503
733	Direct formation of vertically coupled quantum dots in Stranski-Krastanow growth. *Physical Review B*, **1996**, 54, 8743-8750	3.3	452
732	Room temperature ferromagnetism in ZnO films due to defects. *Applied Physics Letters*, **2008**, 92, 082508	3.4	310
731	Advances in designs and mechanisms of semiconducting metal oxide nanostructures for high-precision gas sensors operated at room temperature. *Materials Horizons*, **2019**, 6, 470-506	14.4	292
730	Radiative recombination in type-II GaSb/GaAs quantum dots. *Applied Physics Letters*, **1995**, 67, 656-658	3.4	284
729	Theory of random population for quantum dots. *Physical Review B*, **1997**, 55, 9740-9745	3.3	272
728	Whispering gallery modes in nanosized dielectric resonators with hexagonal cross section. *Physical Review Letters*, **2004**, 93, 103903	7.4	270
727	Defect-induced magnetic order in pure ZnO films. *Physical Review B*, **2009**, 80,	3.3	257
726	Carrier dynamics in type-II GaSb/GaAs quantum dots. *Physical Review B*, **1998**, 57, 4635-4641	3.3	213
725	Excited states and energy relaxation in stacked InAs/GaAs quantum dots. *Physical Review B*, **1998**, 57, 9050-9060	3.3	209

724	Multiphonon-relaxation processes in self-organized InAs/GaAs quantum dots. *Applied Physics Letters*, **1996**, 68, 361-363	3.4	206
723	The 2016 oxide electronic materials and oxide interfaces roadmap. *Journal Physics D: Applied Physics*, **2016**, 49, 433001	3	204
722	Excited states in self-organized InAs/GaAs quantum dots: Theory and experiment. *Applied Physics Letters*, **1996**, 68, 979-981	3.4	203
721	Radiative states in type-II GaSb/GaAs quantum wells. *Physical Review B*, **1995**, 52, 14058-14066	3.3	192
720	Ordered arrays of quantum dots: Formation, electronic spectra, relaxation phenomena, lasing. *Solid-State Electronics*, **1996**, 40, 785-798	1.7	186
719	Close-to-ideal device characteristics of high-power InGaAs/GaAs quantum dot lasers. *Applied Physics Letters*, **2001**, 78, 1207-1209	3.4	184
718	MgxZn1⊠O(0?x. *Applied Physics Letters*, **2005**, 86, 143113	3.4	181
717	Structural characterization of (In,Ga)As quantum dots in a GaAs matrix. *Physical Review B*, **1995**, 51, 14766-14769	3.3	181
716	Room temperature ferromagnetism in carbon-implanted ZnO. *Applied Physics Letters*, **2008**, 93, 232507	3.4	178
715	Whispering gallery mode lasing in zinc oxide microwires. *Applied Physics Letters*, **2008**, 92, 241102	3.4	178
714	The present status of quantum dot lasers. *Physica E: Low-Dimensional Systems and Nanostructures*, **1999**, 5, 167-184	3	177
713	Transparent flexible thermoelectric material based on non-toxic earth-abundant p-type copper iodide thin film. *Nature Communications*, **2017**, 8, 16076	17.4	164
712	Dielectric functions (1 to 5 eV) of wurtzite MgxZn1⊠O (x?0.29) thin films. *Applied Physics Letters*, **2003**, 82, 2260-2262	3.4	157
711	Quantum dot lasers: breakthrough in optoelectronics. *Thin Solid Films*, **2000**, 367, 235-249	2.2	157
710	The Physics of Semiconductors. *Graduate Texts in Physics*, **2010**,	0.3	148
709	Scanning cathodoluminescence microscopy: A unique approach to atomic-scale characterization of heterointerfaces and imaging of semiconductor inhomogeneities. *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **1991**, 9, 2358		148
708	Mean barrier height of Pd Schottky contacts on ZnO thin films. *Applied Physics Letters*, **2006**, 88, 092102	3.4	146
707	InAs⊡GaAs Quantum Pyramid Lasers: In Situ Growth, Radiative Lifetimes and Polarization Properties. *Japanese Journal of Applied Physics*, **1996**, 35, 1311-1319	1.4	144

706	The contribution of particle core and surface to strain, disorder and vibrations in thiolcapped CdTe nanocrystals. *Journal of Chemical Physics*, **1998**, 108, 7807-7815	3.9	143
705	Quantum-dot heterostructure lasers. *IEEE Journal of Selected Topics in Quantum Electronics*, **2000**, 6, 439-451	3.8	139
704	Electron escape from InAs quantum dots. *Physical Review B*, **1999**, 60, 14265-14268	3.3	138
703	Image charges in semiconductor quantum wells: Effect on exciton binding energy. *Physical Review B* , **1990**, 42, 5906-5909	3.3	131
702	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
701	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
700	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
699	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
698	Transparent semiconducting oxides: materials and devices. *Physica Status Solidi (A) Applications and Materials Science*, **2010**, 207, 1437-1449	1.6	120
697	A practical, self-catalytic, atomic layer deposition of silicon dioxide. *Angewandte Chemie - International Edition*, **2008**, 47, 6177-9	16.4	120
696	InAs/GaAs quantum dots radiative recombination from zero-dimensional states. *Physica Status Solidi (B): Basic Research*, **1995**, 188, 249-258	1.3	119
695	Transparent p-CuI/n-ZnO heterojunction diodes. *Applied Physics Letters*, **2013**, 102, 092109	3.4	114
694	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
693	Band-structure pseudopotential calculation of zinc-blende and wurtzite AlN, GaN, and InN. *Physical Review B*, **2003**, 67,	3.3	108
692	The Physics of Semiconductors. *Graduate Texts in Physics*, **2016**,	0.3	106
691	Raman tensor elements of □GaO. *Scientific Reports*, **2016**, 6, 35964	4.9	105
690	Binding Specificity of a Peptide on Semiconductor Surfaces. *Nano Letters*, **2004**, 4, 2115-2120	11.5	105
689	Nanoscroll formation from strained layer heterostructures. *Applied Physics Letters*, **2003**, 83, 2444-2446	3.4	103

688	Low-order optical whispering-gallery modes in hexagonal nanocavities. *Physical Review A*, **2005**, 72,	2.6	102
687	Self-organization processes in MBE-grown quantum dot structures. *Thin Solid Films*, **1995**, 267, 32-36	2.2	100
686	Gain and Threshold of Quantum Dot Lasers: Theory and Comparison to Experiments. *Japanese Journal of Applied Physics*, **1997**, 36, 4181-4187	1.4	98
685	Phosphorus acceptor doped ZnO nanowires prepared by pulsed-laser deposition. *Nanotechnology*, **2007**, 18, 455707	3.4	96
684	High-power quantum-dot lasers at 1100 nm. *Applied Physics Letters*, **2000**, 76, 556-558	3.4	96
683	Determination of the mean and the homogeneous barrier height of Cu Schottky contacts on heteroepitaxial □Ga2O3 thin films grown by pulsed laser deposition. *Physica Status Solidi (A) Applications and Materials Science*, **2014**, 211, 40-47	1.6	95
682	Lateral homogeneity of Schottky contacts on n-type ZnO. *Applied Physics Letters*, **2004**, 84, 79-81	3.4	95
681	Growth, Spectroscopy, and Laser Application of Self-Ordered III-V Quantum Dots. *MRS Bulletin*, **1998**, 23, 31-34	3.2	90
680	Low-temperature metalorganic chemical vapor deposition of InP on Si(001). *Applied Physics Letters*, **1991**, 58, 284-286	3.4	88
679	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
678	Self-organization processes of InGaAs/GaAs quantum dots grown by metalorganic chemical vapor deposition. *Applied Physics Letters*, **1996**, 68, 3284-3286	3.4	86
677	Multiferroic BaTiO3□BiFeO3composite thin films and multilayers: strain engineering and magnetoelectric coupling. *Journal Physics D: Applied Physics*, **2014**, 47, 135303	3	83
676	Epitaxial stabilization of pseudomorphic □Ga2O3on sapphire (0001). *Applied Physics Express*, **2015**, 8, 011101	2.4	82
675	Optical signatures of deep level defects in Ga2O3. *Applied Physics Letters*, **2018**, 112, 242102	3.4	82
674	Anionic and cationic substitution in ZnO. *Progress in Solid State Chemistry*, **2009**, 37, 153-172	8	81
673	Room temperature ferromagnetism in Mn-doped ZnO films mediated by acceptor defects. *Applied Physics Letters*, **2007**, 91, 092503	3.4	80
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671	Metal-insulator transition in Co-doped ZnO: Magnetotransport properties. *Physical Review B*, **2006**, 73,	3.3	77

670	Anisotropy effects on excitonic properties in realistic quantum wells. *Physical Review B*, **1988**, 38, 13486-13489	3.3	77
669	Lateral and vertical ordering in multilayered self-organized InGaAs quantum dots studied by high resolution x-ray diffraction. *Applied Physics Letters*, **1997**, 70, 955-957	3.4	76
668	Band dispersion relations of zinc-blende and wurtzite InN. *Physical Review B*, **2004**, 69,	3.3	74
667	Spatially Inhomogeneous Impurity Distribution in ZnO Micropillars. *Nano Letters*, **2004**, 4, 797-800	11.5	74
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665	Nature of optical transitions in self-organized InAs/GaAs quantum dots. *Physical Review B*, **1996**, 53, R10509-R10511	3.3	70
664	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
663	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
662	Electrical and magnetic properties of RE-doped ZnO thin films (RE = Gd, Nd). *Superlattices and Microstructures*, **2007**, 42, 231-235	2.8	67
661	Oxide bipolar electronics: materials, devices and circuits. *Journal Physics D: Applied Physics*, **2016**, 49, 213001	3	67
660	Whispering gallery modes in zinc oxide micro- and nanowires. *Physica Status Solidi (B): Basic Research*, **2010**, 247, 1282-1293	1.3	66
659	Ultrafast carrier capture and long recombination lifetimes in GaAs quantum wires grown on nonplanar substrates. *Applied Physics Letters*, **1992**, 61, 67-69	3.4	66
658	Dielectric tensor of monoclinic Ga2O3 single crystals in the spectral range 0.5⊠8.5 eV. *APL Materials* , **2015**, 3, 106106	5.7	65
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655	Deep acceptor states in ZnO single crystals. *Applied Physics Letters*, **2006**, 89, 092122	3.4	63
654	Ordering phenomena in InAs strained layer morphological transformation on GaAs (100) surface. *Applied Physics Letters*, **1995**, 67, 97-99	3.4	63
653	Zero-dimensional excitons in (Zn,Cd)Se quantum structures. *Physical Review B*, **1996**, 54, R11074-R11077	3.3	63

652	Tin-assisted heteroepitaxial PLD-growth of □Ga2O3 thin films with high crystalline quality. *APL Materials*, **2019**, 7, 022516	5.7	63
651	Occurrence of rotation domains in heteroepitaxy. *Physical Review Letters*, **2010**, 105, 146102	7.4	62
650	Influence of In/Ga intermixing on the optical properties of InGaAs/GaAs quantum dots. *Journal of Crystal Growth*, **1998**, 195, 540-545	1.6	62
649	ZnO metal-semiconductor field-effect transistors with Ag-Schottky gates. *Applied Physics Letters*, **2008**, 92, 192108	3.4	62
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646	InAs-GaAs quantum dots: From growth to lasers. *Physica Status Solidi (B): Basic Research*, **1996**, 194, 159-173	1.3	61
645	Raman active phonon modes of cubic In2O3. *Physica Status Solidi - Rapid Research Letters*, **2014**, 8, 554-559	2.5	60
644	Influence of P-glycoprotein on the transplacental passage of cyclosporine. *Journal of Pharmaceutical Sciences*, **2001**, 90, 1583-92	3.9	60
643	Lattice parameters and Raman-active phonon modes of □(AlxGa1□)2O3. *Journal of Applied Physics* , **2015**, 117, 125703	2.5	59
642	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
641	Symmetry breaking in pseudomorphic V-groove quantum wires. *Physical Review B*, **1994**, 50, 14187-14192	3.3	59
640	Formation of epitaxial domains: Unified theory and survey of experimental results. *Physica Status Solidi (B): Basic Research*, **2011**, 248, 805-824	1.3	58
639	Electron paramagnetic resonance of Zn1□MnxO thin films and single crystals. *Physical Review B*, **2005**, 72,	3.3	58
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637	Correlation of pre-breakdown sites and bulk defects in multicrystalline silicon solar cells. *Physica Status Solidi - Rapid Research Letters*, **2009**, 3, 70-72	2.5	57
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635	Enhanced radiation hardness of quantum dot lasers to high energy proton irradiation. *Electronics Letters*, **2001**, 37, 174	1.1	56

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629	Pseudopotential band structures of rocksalt MgO, ZnO, and Mg1⊠ZnxO. *Applied Physics Letters*, **2006**, 88, 134104	3.4	52
628	Refractive indices and band-gap properties of rocksalt MgxZn1⊠O (0.68?x?1). *Journal of Applied Physics*, **2006**, 99, 123701	2.5	51
627	Interfacial properties of very thin GaInAs/InP quantum well structures grown by metalorganic vapor phase epitaxy. *Journal of Applied Physics*, **1992**, 71, 3300-3306	2.5	50
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625	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
624	Resistive hysteresis and interface charge coupling in BaTiO3-ZnO heterostructures. *Applied Physics Letters*, **2009**, 94, 142904	3.4	49
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621	Schottky contacts to In2O3. *APL Materials*, **2014**, 2, 046104	5.7	48
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617	Luminescence and surface properties of MgxZn1⊠O thin films grown by pulsed laser deposition. *Journal of Applied Physics*, **2007**, 101, 083521	2.5	47

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612	Raman Tensor Formalism for Optically Anisotropic Crystals. *Physical Review Letters*, **2016**, 116, 127401	7.4	45
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609	Lattice parameters and Raman-active phonon modes of (InxGa1□)2O3 for x . *Journal of Applied Physics*, **2014**, 116, 013505	2.5	45
608	Electronic structure and energy relaxation in strained InAs/GaAs quantum pyramids. *Superlattices and Microstructures*, **1996**, 19, 81-95	2.8	45
607	Defect segregation and optical emission in ZnO nano- and microwires. *Nanoscale*, **2016**, 8, 7631-7	7.7	44
606	Microscopic mechanism of specific peptide adhesion to semiconductor substrates. *Angewandte Chemie - International Edition*, **2010**, 49, 9530-3	16.4	44
605	p-type conducting ZnO:P microwires prepared by direct carbothermal growth. *Physica Status Solidi - Rapid Research Letters*, **2008**, 2, 37-39	2.5	44
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603	Dipole analysis of the dielectric function of color dispersive materials: Application to monoclinic Ga2O3. *Physical Review B*, **2016**, 94,	3.3	44
602	Ordered growth of tilted ZnO nanowires: morphological, structural and optical characterization. *Nanotechnology*, **2007**, 18, 195303	3.4	42
601	All Amorphous Oxide Bipolar Heterojunction Diodes from Abundant Metals. *Advanced Electronic Materials*, **2015**, 1, 1400023	6.4	41
600	Strain distribution in bent ZnO microwires. *Applied Physics Letters*, **2011**, 98, 031105	3.4	41
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596	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
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567	Visible-blind and solar-blind ultraviolet photodiodes based on (InxGa1−x)2O3. *Applied Physics Letters*, **2016**, 108, 123503	3.4	33
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