

Cedrik Meier

List of Publications by Year in descending order

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90
papers

1,994
citations

331259

21
h-index

253896

43
g-index

90
all docs

90
docs citations

90
times ranked

2767
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear optics in all-dielectric nanoantennas and metasurfaces: a review. <i>Advanced Photonics</i> , 2019, 1, 1.	6.2	165
2	Photonic bands in two-dimensionally patterned multimode GaN waveguides for light extraction. <i>Applied Physics Letters</i> , 2005, 87, 101107.	1.5	154
3	Ultrathin Nonlinear Metasurface for Optical Image Encoding. <i>Nano Letters</i> , 2017, 17, 3171-3175.	4.5	153
4	Synthesis of High Purity Silicon Nanoparticles in a Low Pressure Microwave Reactor. <i>Journal of Nanoscience and Nanotechnology</i> , 2004, 4, 1039-1044.	0.9	152
5	Silicon nanoparticles: Absorption, emission, and the nature of the electronic bandgap. <i>Journal of Applied Physics</i> , 2007, 101, 103112.	1.1	138
6	Raman properties of silicon nanoparticles. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2006, 32, 155-158.	1.3	135
7	GaN blue photonic crystal membrane nanocavities. <i>Applied Physics Letters</i> , 2005, 87, 243101.	1.5	80
8	Free-standing, optically pumped, GaN/InGaN microdisk lasers fabricated by photoelectrochemical etching. <i>Applied Physics Letters</i> , 2004, 85, 5179-5181.	1.5	78
9	Properties of nonpolar a-plane InGaN/GaN multiple quantum wells grown on lateral epitaxially overgrown a-plane GaN. <i>Applied Physics Letters</i> , 2005, 86, 031901.	1.5	76
10	Vertically oriented GaN-based air-gap distributed Bragg reflector structure fabricated using band-gap-selective photoelectrochemical etching. <i>Applied Physics Letters</i> , 2005, 87, 051107.	1.5	59
11	Coulomb-Interaction-Induced Incomplete Shell Filling in the Hole System of InAs Quantum Dots. <i>Physical Review Letters</i> , 2005, 94, 026808.	2.9	56
12	Frequency control of photonic crystal membrane resonators by monolayer deposition. <i>Applied Physics Letters</i> , 2006, 88, 043116.	1.5	52
13	Visible resonant modes in GaN-based photonic crystal membrane cavities. <i>Applied Physics Letters</i> , 2006, 88, 031111.	1.5	48
14	Growth and characterisation of GaAs/InGaAs/GaAs nanowhiskers on (111) GaAs. <i>Journal of Crystal Growth</i> , 2007, 298, 607-611.	0.7	44
15	Nonlinear Wavefront Control by Geometric Phase Dielectric Metasurfaces: Influence of Mode Field and Rotational Symmetry. <i>Advanced Optical Materials</i> , 2020, 8, 1902050.	3.6	38
16	Infrared properties of silicon nanoparticles. <i>Journal of Applied Physics</i> , 2005, 97, 084306.	1.1	34
17	Role of quantum capacitance in coupled low-dimensional electron systems. <i>Physical Review B</i> , 2006, 73, .	1.1	27
18	Vibrational and defect states in SnOx nanoparticles. <i>Journal of Applied Physics</i> , 2006, 99, 113108.	1.1	26

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19	Controlled Etching Behavior of O-Polar and Zn-Polar ZnO Single Crystals. Journal of the Electrochemical Society, 2011, 158, H119.	1.3	24
20	Synthesis of luminescing (In,Ga)N nanoparticles from an inorganic ammonium fluoride precursor. Journal of Materials Chemistry, 2005, 15, 1891.	6.7	21
21	Double resonant plasmonic nanoantennas for efficient second harmonic generation in zinc oxide. Physical Review B, 2017, 95, .	1.1	21
22	Whispering gallery modes in zinc-blende AlN microdisks containing non-polar GaN quantum dots. Applied Physics Letters, 2013, 102, .	1.5	19
23	Probing the band structure of InAs ^x GaAs quantum dots by capacitance-voltage and photoluminescence spectroscopy. Applied Physics Letters, 2008, 92, 193111.	1.5	18
24	An intentionally positioned (In,Ga)As quantum dot in a micron sized light emitting diode. Applied Physics Letters, 2010, 97, 143101.	1.5	17
25	Tailored UV Emission by Nonlinear IR Excitation from ZnO Photonic Crystal Nanocavities. ACS Photonics, 2018, 5, 1933-1942.	3.2	17
26	Quantum size effect of valence band plasmon energies in Si and SnO _x nanoparticles. Journal of Vacuum Science & Technology B, 2006, 24, 1156.	1.3	15
27	Quantum dot electrons as controllable scattering centers in the vicinity of a two-dimensional electron gas. Phase Transitions, 2006, 79, 765-770.	0.6	14
28	Optical spectrum, perceived color, refractive index, and non-adiabatic dynamics of the photochromic diarylethene CMTE. Physical Chemistry Chemical Physics, 2014, 16, 14531-14538.	1.3	14
29	Temperature-induced crossover between bright and dark exciton emission in silicon nanoparticles. Europhysics Letters, 2007, 79, 37002.	0.7	13
30	Planar Hall sensors for micro-Hall magnetometry. Journal of Applied Physics, 2002, 91, 7980.	1.1	11
31	Local two-dimensional electron gas formation in p-doped GaAs/InyGa1-yAs/AlxGa1-xAs heterostructures by focused Si-implantation doping. Semiconductor Science and Technology, 2002, 17, 585-589.	1.0	11
32	Observation of high Q resonant modes in optically pumped GaN/InGaN microdisks fabricated using photoelectrochemical etching. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 2845-2848.	0.8	11
33	Inductively coupled plasma reactive ion etching of bulk ZnO single crystal and molecular beam epitaxy grown ZnO films. Journal of Vacuum Science & Technology B, 2009, 27, 2097.	1.3	11
34	Tuning quantum-dot based photonic devices with liquid crystals. Optics Express, 2010, 18, 7946.	1.7	11
35	Depth profile of the implantation-enhanced intermixing of Ga+ focused ion beam in AlAs/GaAs quantum wells. Journal of Applied Physics, 1999, 86, 6605-6607.	1.1	10
36	Increased thermal budget for selectively doped heterostructures by employing AlAs/GaAs superlattices. Applied Physics Letters, 2001, 79, 377-379.	1.5	10

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37	Scaling coefficient for three-dimensional grain coalescence of ZnO on Si(111). <i>Physical Review B</i> , 2012, 86, .	1.1	10
38	Fabrication and characterization of two-dimensional cubic AlN photonic crystal membranes containing zincblende GaN quantum dots. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2016, 13, 292-296.	0.8	10
39	Self-assembled quantum dots in a liquid-crystal-tunable microdisk resonator. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 2552-2555.	1.3	9
40	Enhanced photoluminescence of colloidal nanocrystals embedded in epitaxially grown semiconductor microstructures. <i>Physical Review B</i> , 2012, 85, .	1.1	8
41	Time-resolved photon echoes from donor-bound excitons in ZnO epitaxial layers. <i>Physical Review B</i> , 2017, 96, .	1.1	8
42	Ultrathin $K\alpha$ -p-Si(001) Schottky diodes as detectors of chemically generated hot charge carriers. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2009, 27, 889-894.	0.9	7
43	Intentionally positioned self-assembled InAs quantum dots in an electroluminescent p-n junction diode. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 2749-2752.	1.3	7
44	All-optical tunability of microdisk lasers via photo-addressable polyelectrolyte functionalization. <i>Optics Express</i> , 2012, 20, 6060.	1.7	7
45	Carrier localization in ZnO quantum wires. <i>Applied Physics Letters</i> , 2012, 100, 263114.	1.5	7
46	Blue-green emitting microdisks using low-temperature-grown ZnO on patterned silicon substrates. <i>Optics Express</i> , 2013, 21, 25517.	1.7	7
47	Nonlinear optical sub-bandgap excitation of ZnO-based photonic resonators. <i>Journal of Applied Physics</i> , 2015, 118, .	1.1	7
48	Zinc oxide based dielectric nanoantennas for efficient nonlinear frequency conversion. <i>Journal of Applied Physics</i> , 2019, 125, .	1.1	7
49	Fabrication of two-dimensional in-plane gate transistors by focused ion beam doping. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2002, 13, 938-941.	1.3	6
50	Fabrication of high-quality two-dimensional electron gases by overgrowth of focused-ion-beam-doped $Al_xGa_{1-x}As$. <i>Applied Physics Letters</i> , 2003, 82, 481-483.	1.5	6
51	Screening effects in InAs quantum-dot structures observed by photoluminescence and capacitance-voltage spectra. <i>Applied Physics Letters</i> , 2005, 87, 163117.	1.5	6
52	Formation of defects in cubic GaN grown on nano-patterned 3C-SiC (001). <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2012, 9, 1028-1031.	0.8	6
53	Structural enhancement of ZnO on SiO ₂ for photonic applications. <i>AIP Advances</i> , 2013, 3, 072114.	0.6	6
54	High-precision determination of silicon nanocrystals: optical spectroscopy versus electron microscopy. <i>Semiconductor Science and Technology</i> , 2019, 34, 095009.	1.0	6

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55	Optical properties of silicon oxynitride films grown by plasma-enhanced chemical vapor deposition. <i>Thin Solid Films</i> , 2021, 736, 138887.	0.8	6
56	Quantum dots as tunable scatterers for 2D- and 1D-electron systems. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 2075-2077.	1.3	5
57	Electroluminescence from silicon nanoparticles fabricated from the gas phase. <i>Nanotechnology</i> , 2010, 21, 455201.	1.3	5
58	Zn ^{VI} quasiparticle gaps and optical spectra from many-body calculations. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 215702.	0.7	5
59	Optical in-situ temperature management for high-quality ZnO molecular beam epitaxy. <i>Journal of Crystal Growth</i> , 2021, 557, 126009.	0.7	5
60	Silicon Nanoparticles: Excitonic Fine Structure and Oscillator Strength. <i>Advances in Solid State Physics</i> , 2009, , 79-90.	0.8	5
61	Robustness of the Quantum Hall Effect, Sample Size Versus Sample Topology, and Quality Control Management of III ^V Molecular Beam Epitaxy. <i>International Journal of Modern Physics B</i> , 1998, 12, 1147-1170.	1.0	4
62	Fabrication of two-dimensional electron systems by focused ion beam doping of III/V semiconductor heterostructures. <i>Journal of Applied Physics</i> , 2003, 93, 6100-6106.	1.1	4
63	Anticrossing of Whispering Gallery Modes in microdisk resonators embedded in an anisotropic environment. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2010, 8, 273-277.	1.0	4
64	Cubic GaN quantum dots embedded in zinc-blende AlN microdisks. <i>Journal of Crystal Growth</i> , 2013, 378, 287-290.	0.7	4
65	Fabrication of fully undercut ZnO-based photonic crystal membranes with 3D optical confinement. <i>Superlattices and Microstructures</i> , 2016, 97, 397-408.	1.4	4
66	Electric-field-induced second harmonic generation in silicon dioxide. <i>Optics Express</i> , 2022, 30, 4867.	1.7	4
67	Wave function mapping of self-assembled quantum dots by capacitance spectroscopy. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004, 21, 516-520.	1.3	3
68	Efficient frequency conversion by combined photonic ^{pl} asmonic mode coupling. <i>Journal of Applied Physics</i> , 2018, 123, .	1.1	3
69	Strong nonlinear optical response from ZnO by coupled and lattice-matched nanoantennas. <i>Journal of Applied Physics</i> , 2019, 125, 193104.	1.1	3
70	Nanoantennas embedded in zinc oxide for second harmonic generation enhancement. <i>Journal of Applied Physics</i> , 2020, 128, 043107.	1.1	3
71	Stimulation and Enhancement of Near ^{Band} Edge Emission in Zinc Oxide by Distributed Bragg Reflectors. <i>Advanced Materials Interfaces</i> , 0, , 2102357.	1.9	3
72	A new peak in the bend resistance of a four-terminal device written by FIB implantation. <i>Physica B: Condensed Matter</i> , 2000, 284-288, 1906-1907.	1.3	2

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73	Fabrication of high quality two-dimensional electron gases by overgrowth of focused ion beam implantation doped $\text{Al}_x\text{Ga}_{1-x}\text{As}$. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2003, 17, 503-504.	1.3	2
74	Investigations on the director field around microdisc resonators. <i>Liquid Crystals</i> , 2011, 38, 475-482.	0.9	2
75	Technique for tilting GaAs photonic crystal nanocavities out of plane. <i>Applied Physics Letters</i> , 2007, 90, 143113.	1.5	1
76	Electron energy structure of self-assembled In(Ga)As nanostructures probed by capacitance-voltage spectroscopy and one-dimensional numerical simulation. <i>Journal of Materials Research</i> , 2009, 24, 2179-2184.	1.2	1
77	Optical Properties of Silicon Nanoparticles. <i>Nanoscience and Technology</i> , 2012, , 209-230.	1.5	1
78	Spatially asymmetric transients of propagating exciton-polariton modes in a planar CdZnTe/CdMgTe guiding structure. <i>Physical Review B</i> , 2019, 100, .	1.1	1
79	Flexible source of correlated photons based on LNOI rib waveguides. <i>JPhys Photonics</i> , 0, , .	2.2	1
80	Laterally resolved doping by focused ion beam implantation. , 0, , .		0
81	Tunable backscattering in quantum Hall systems induced by neighbouring gates. <i>Physica B: Condensed Matter</i> , 2000, 284-288, 1728-1729.	1.3	0
82	Emission from neutral and charged excitons in self-organized InAs quantum dots: Band bending vs Pauli blocking. <i>AIP Conference Proceedings</i> , 2005, , .	0.3	0
83	Optical properties of GaN Photonic Crystal Membrane Nanocavities at Blue Wavelengths. <i>Materials Research Society Symposia Proceedings</i> , 2005, 892, 442.	0.1	0
84	Optical properties of GaN Photonic Crystal Membrane Nanocavities. , 0, , .		0
85	Tunable optical properties of photonic crystals and semiconductor microdisks using liquid crystals. <i>Proceedings of SPIE</i> , 2008, , .	0.8	0
86	Anticrossing of Whispering Gallery Modes in Microdisk Resonators Embedded in a Liquid Crystal. , 2009, , .		0
87	Electrically driven intentionally positioned single quantum dot. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011, 8, 1182-1185.	0.8	0
88	Optical image encryption with an ultrathin nonlinear metasurface. , 2017, , .		0
89	Selective Etching of (111) \bar{B} -Oriented $\text{Al}_x\text{Ga}_{1-x}\text{As}$ Layers for Epitaxial Lift-Off. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021, 218, 2000408.	0.8	0
90	Coupling Dynamics of Quantum Dots in a liquid-crystal-tunable microdisk resonator. , 2009, , .		0