

Cedrik Meier

List of Publications by Year in Descending Order

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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.

81
papers

1,652
citations

19
h-index

38
g-index

90
ext. papers

1,849
ext. citations

3.1
avg, IF

4.5
L-index

#	Paper	IF	Citations
81	Electric-field-induced second harmonic generation in silicon dioxide.. <i>Optics Express</i> , 2022 , 30, 4867-4874	5.3	0
80	Optical in-situ temperature management for high-quality ZnO molecular beam epitaxy. <i>Journal of Crystal Growth</i> , 2021 , 557, 126009	1.6	2
79	Selective Etching of (111)B-Oriented Al _x Ga _{1-x} As-Layers for Epitaxial Lift-Off. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021 , 218, 2000408	1.6	
78	Optical properties of silicon oxynitride films grown by plasma-enhanced chemical vapor deposition. <i>Thin Solid Films</i> , 2021 , 736, 138887	2.2	4
77	Nonlinear Wavefront Control by Geometric-Phase Dielectric Metasurfaces: Influence of Mode Field and Rotational Symmetry. <i>Advanced Optical Materials</i> , 2020 , 8, 1902050	8.1	13
76	Nanoantennas embedded in zinc oxide for second harmonic generation enhancement. <i>Journal of Applied Physics</i> , 2020 , 128, 043107	2.5	1
75	Strong nonlinear optical response from ZnO by coupled and lattice-matched nanoantennas. <i>Journal of Applied Physics</i> , 2019 , 125, 193104	2.5	2
74	Zinc oxide based dielectric nanoantennas for efficient nonlinear frequency conversion. <i>Journal of Applied Physics</i> , 2019 , 125, 073103	2.5	5
73	High-precision determination of silicon nanocrystals: optical spectroscopy versus electron microscopy. <i>Semiconductor Science and Technology</i> , 2019 , 34, 095009	1.8	4
72	Nonlinear optics in all-dielectric nanoantennas and metasurfaces: a review. <i>Advanced Photonics</i> , 2019 , 1, 1	8.1	97
71	Tailored UV Emission by Nonlinear IR Excitation from ZnO Photonic Crystal Nanocavities. <i>ACS Photonics</i> , 2018 , 5, 1933-1942	6.3	13
70	Efficient frequency conversion by combined photonic-plasmonic mode coupling. <i>Journal of Applied Physics</i> , 2018 , 123, 103101	2.5	2
69	Ultrathin Nonlinear Metasurface for Optical Image Encoding. <i>Nano Letters</i> , 2017 , 17, 3171-3175	11.5	107
68	Zn-VI quasiparticle gaps and optical spectra from many-body calculations. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 215702	1.8	4
67	Time-resolved photon echoes from donor-bound excitons in ZnO epitaxial layers. <i>Physical Review B</i> , 2017 , 96,	3.3	5
66	Double resonant plasmonic nanoantennas for efficient second harmonic generation in zinc oxide. <i>Physical Review B</i> , 2017 , 95,	3.3	17
65	Fabrication of fully undercut ZnO-based photonic crystal membranes with 3D optical confinement. <i>Superlattices and Microstructures</i> , 2016 , 97, 397-408	2.8	3

64	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		7
63	Nonlinear optical sub-bandgap excitation of ZnO-based photonic resonators. <i>Journal of Applied Physics</i> , 2015 , 118, 213105	2.5	6
62	Optical spectrum, perceived color, refractive index, and non-adiabatic dynamics of the photochromic diarylethene CMTE. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 14531-8	3.6	13
61	Structural enhancement of ZnO on SiO ₂ for photonic applications. <i>AIP Advances</i> , 2013 , 3, 072114	1.5	6
60	Cubic GaN quantum dots embedded in zinc-blende AlN microdisks. <i>Journal of Crystal Growth</i> , 2013 , 378, 287-290	1.6	4
59	Blue-green emitting microdisks using low-temperature-grown ZnO on patterned silicon substrates. <i>Optics Express</i> , 2013 , 21, 25517-25	3.3	5
58	Whispering gallery modes in zinc-blende AlN microdisks containing non-polar GaN quantum dots. <i>Applied Physics Letters</i> , 2013 , 102, 081105	3.4	17
57	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		4
56	Optical Properties of Silicon Nanoparticles. <i>Nanoscience and Technology</i> , 2012 , 209-230	0.6	0
55	All-optical tunability of microdisk lasers via photo-addressable polyelectrolyte functionalization. <i>Optics Express</i> , 2012 , 20, 6060-7	3.3	6
54	Carrier localization in ZnO quantum wires. <i>Applied Physics Letters</i> , 2012 , 100, 263114	3.4	7
53	Scaling coefficient for three-dimensional grain coalescence of ZnO on Si(111). <i>Physical Review B</i> , 2012 , 86,	3.3	9
52	Enhanced photoluminescence of colloidal nanocrystals embedded in epitaxially grown semiconductor microstructures. <i>Physical Review B</i> , 2012 , 85,	3.3	8
51	Electrically driven intentionally positioned single quantum dot. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011 , 8, 1182-1185		
50	Investigations on the director field around microdisc resonators. <i>Liquid Crystals</i> , 2011 , 38, 475-482	2.3	2
49	Controlled Etching Behavior of O-Polar and Zn-Polar ZnO Single Crystals. <i>Journal of the Electrochemical Society</i> , 2011 , 158, H119	3.9	20
48	An intentionally positioned (In,Ga)As quantum dot in a micron sized light emitting diode. <i>Applied Physics Letters</i> , 2010 , 97, 143101	3.4	14
47	Electroluminescence from silicon nanoparticles fabricated from the gas phase. <i>Nanotechnology</i> , 2010 , 21, 455201	3.4	3

46	Tuning quantum-dot based photonic devices with liquid crystals. <i>Optics Express</i> , 2010 , 18, 7946-54	3.3	10
45	Self-assembled quantum dots in a liquid-crystal-tunable microdisk resonator. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010 , 42, 2552-2555	3	8
44	Intentionally positioned self-assembled InAs quantum dots in an electroluminescent p-i-n junction diode. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010 , 42, 2749-2752	3	7
43	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	2.6	4
42	Ultrathin K β -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	2.9	7
41	Inductively coupled plasma reactive ion etching of bulk ZnO single crystal and molecular beam epitaxy grown ZnO films. <i>Journal of Vacuum Science & Technology B</i> , 2009 , 27, 2097		11
40	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	2.5	1
39	Silicon Nanoparticles: Excitonic Fine Structure and Oscillator Strength. <i>Advances in Solid State Physics</i> , 2009 , 79-90		4
38	Probing the band structure of InAs/GaAs quantum dots by capacitance-voltage and photoluminescence spectroscopy. <i>Applied Physics Letters</i> , 2008 , 92, 193111	3.4	16
37	Quantum dots as tunable scatterers for 2D- and 1D-electron systems. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008 , 40, 2075-2077	3	5
36	Silicon nanoparticles: Absorption, emission, and the nature of the electronic bandgap. <i>Journal of Applied Physics</i> , 2007 , 101, 103112	2.5	120
35	Growth and characterisation of GaAs/InGaAs/GaAs nanowhiskers on (111) GaAs. <i>Journal of Crystal Growth</i> , 2007 , 298, 607-611	1.6	44
34	Technique for tilting GaAs photonic crystal nanocavities out of plane. <i>Applied Physics Letters</i> , 2007 , 90, 143113	3.4	1
33	Temperature-induced crossover between bright and dark exciton emission in silicon nanoparticles. <i>Europhysics Letters</i> , 2007 , 79, 37002	1.6	13
32	Quantum size effect of valence band plasmon energies in Si and SnOx nanoparticles. <i>Journal of Vacuum Science & Technology B</i> , 2006 , 24, 1156		15
31	Frequency control of photonic crystal membrane resonators by monolayer deposition. <i>Applied Physics Letters</i> , 2006 , 88, 043116	3.4	47
30	Vibrational and defect states in SnOx nanoparticles. <i>Journal of Applied Physics</i> , 2006 , 99, 113108	2.5	21
29	Visible resonant modes in GaN-based photonic crystal membrane cavities. <i>Applied Physics Letters</i> , 2006 , 88, 031111	3.4	42

28	Role of quantum capacitance in coupled low-dimensional electron systems. <i>Physical Review B</i> , 2006 , 73,	3-3	25
27	Quantum dot electrons as controllable scattering centers in the vicinity of a two-dimensional electron gas. <i>Phase Transitions</i> , 2006 , 79, 765-770	1-3	14
26	Raman properties of silicon nanoparticles. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2006 , 32, 155-158	3	113
25	Synthesis of luminescing (In,Ga)N nanoparticles from an inorganic ammonium fluoride precursor. <i>Journal of Materials Chemistry</i> , 2005 , 15, 1891		21
24	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	3-4	52
23	Observation of high Q resonant modes in optically pumped GaN/InGaN microdisks fabricated using photoelectrochemical etching. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005 , 2, 2845-2848		10
22	Optical properties of GaN Photonic Crystal Membrane Nanocavities at Blue Wavelengths. <i>Materials Research Society Symposia Proceedings</i> , 2005 , 892, 442		
21	Screening effects in InAs quantum-dot structures observed by photoluminescence and capacitance-voltage spectra. <i>Applied Physics Letters</i> , 2005 , 87, 163117	3-4	6
20	Infrared properties of silicon nanoparticles. <i>Journal of Applied Physics</i> , 2005 , 97, 084306	2-5	32
19	Photonic bands in two-dimensionally patterned multimode GaN waveguides for light extraction. <i>Applied Physics Letters</i> , 2005 , 87, 101107	3-4	126
18	Properties of nonpolar a-plane InGaInGaN multiple quantum wells grown on lateral epitaxially overgrown a-plane GaN. <i>Applied Physics Letters</i> , 2005 , 86, 031901	3-4	68
17	Coulomb-interaction-induced incomplete shell filling in the hole system of InAs quantum dots. <i>Physical Review Letters</i> , 2005 , 94, 026808	7-4	53
16	GaN blue photonic crystal membrane nanocavities. <i>Applied Physics Letters</i> , 2005 , 87, 243101	3-4	66
15	Free-standing, optically pumped, GaN/InGaN microdisk lasers fabricated by photoelectrochemical etching. <i>Applied Physics Letters</i> , 2004 , 85, 5179-5181	3-4	74
14	Synthesis of high purity silicon nanoparticles in a low pressure microwave reactor. <i>Journal of Nanoscience and Nanotechnology</i> , 2004 , 4, 1039-44	1-3	136
13	Wave function mapping of self-assembled quantum dots by capacitance spectroscopy. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004 , 21, 516-520	3	3
12	Fabrication of high quality two-dimensional electron gases by overgrowth of focused ion beam implantation doped Al _x Ga _{1-x} As. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2003 , 17, 503-504	3-4	2
11	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	2-5	4

10	Fabrication of high-quality two-dimensional electron gases by overgrowth of focused-ion-beam-doped Al _x Ga _{1-x} As. <i>Applied Physics Letters</i> , 2003 , 82, 481-483	3.4	6
9	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	3	6
8	Planar Hall sensors for micro-Hall magnetometry. <i>Journal of Applied Physics</i> , 2002 , 91, 7980	2.5	11
7	Local two-dimensional electron gas formation in p-doped GaAs/In _y Ga _{1-y} As/Al _x Ga _{1-x} As heterostructures by focused Si-implantation doping. <i>Semiconductor Science and Technology</i> , 2002 , 17, 585-589	1.8	11
6	Increased thermal budget for selectively doped heterostructures by employing AlAs/GaAs superlattices. <i>Applied Physics Letters</i> , 2001 , 79, 377-379	3.4	10
5	Tunable backscattering in quantum Hall systems induced by neighbouring gates. <i>Physica B: Condensed Matter</i> , 2000 , 284-288, 1728-1729	2.8	
4	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	2.8	2
3	Depth profile of the implantation-enhanced intermixing of Ga ⁺ focused ion beam in AlAs/GaAs quantum wells. <i>Journal of Applied Physics</i> , 1999 , 86, 6605-6607	2.5	10
2	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	1.7	3
1	Stimulation and Enhancement of Near-Band-Edge Emission in Zinc Oxide by Distributed Bragg Reflectors. <i>Advanced Materials Interfaces</i> , 2102357	4.6	1