Robert Röder

List of Publications by Year in descending order

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		430874	3	361022	
38	1,246 citations	18		35	
papers	citations	h-index		g-index	
39	39	39		1974	
3,7	3,7	37		177 (
all docs	docs citations	times ranked		citing authors	

#	Article	IF	Citations
1	Role of free-carrier interaction in strong-field excitations in semiconductors. Physical Review B, 2021, 104, .	3.2	1
2	Polarization Dependent Excitation and High Harmonic Generation from Intense Mid-IR Laser Pulses in ZnO. Nanomaterials, 2021, 11, 4.	4.1	9
3	Polarization dependent multiphoton absorption in ZnO thin films. Journal Physics D: Applied Physics, 2020, 53, 055102.	2.8	6
4	Conversionless efficient and broadband laser light diffusers for high brightness illumination applications. Nature Communications, 2020, 11, 1437.	12.8	52
5	Transition Metal and Rare Earth Element Doped Zinc Oxide Nanowires for Optoelectronics. Physica Status Solidi (B): Basic Research, 2019, 256, 1800604.	1.5	30
6	Strong Light-Field Driven Nanolasers. Nano Letters, 2019, 19, 3563-3568.	9.1	4
7	Tailoring Spectral and Temporal Properties of Semiconductor Nanowire Lasers. Advanced Optical Materials, 2019, 7, 1900504.	7.3	9
8	Single nanowire defined emission properties of ZnO nanowire arrays. Journal Physics D: Applied Physics, 2019, 52, 295101.	2.8	4
9	Electroluminescence of intrashell transitions in Eu doped single ZnO nanowires. Nanotechnology, 2019, 30, 095201.	2.6	5
10	Improving gas sensing by CdTe decoration of individual Aerographite microtubes. Nanotechnology, 2019, 30, 065501.	2.6	8
11	Review on the dynamics of semiconductor nanowire lasers. Semiconductor Science and Technology, 2018, 33, 033001.	2.0	24
12	Damage recovery and dopant migration of Eu+ ion implanted KTiOAsO4 crystals. Nuclear Instruments & Methods in Physics Research B, 2018, 435, 209-213.	1.4	1
13	Hard X-ray Generation from ZnO Nanowire Targets in a Non-Relativistic Regime of Laser-Solid Interactions. Applied Sciences (Switzerland), 2018, 8, 1728.	2.5	10
14	Paramagnetic, NIR â€luminescent Nd 3+ â€and Gd 3+ â€doped fluorapatite as contrast agent for multimodal biomedical imaging. Journal of the American Ceramic Society, 2018, 101, 4441-4446.	3.8	2
15	Excitation Energy Dependent Ultrafast Luminescence Behavior of CdS Nanostructures. ACS Photonics, 2017, 4, 1067-1075.	6.6	9
16	Local atomic environment of the Cu-related defect in zinc oxide. Journal Physics D: Applied Physics, 2017, 50, 145105.	2.8	1
17	Growth of 18 O isotopicallyÂenriched ZnO nanorods by two novel VPT methods. Journal of Crystal Growth, 2017, 460, 85-93.	1.5	2
18	Dynamical Tuning of Nanowire Lasing Spectra. Nano Letters, 2017, 17, 6637-6643.	9.1	19

#	Article	IF	Citations
19	High temperature limit of semiconductor nanowire lasers. Applied Physics Letters, 2017, 110, 173103.	3.3	12
20	Enhanced absorption and cavity effects of three-photon pumped ZnO nanowires. Applied Physics Letters, 2017, 111, 213106.	3.3	7
21	Carrier density driven lasing dynamics in ZnO nanowires. Nanotechnology, 2016, 27, 225702.	2.6	28
22	Mode Switching and Filtering in Nanowire Lasers. Nano Letters, 2016, 16, 2878-2884.	9.1	25
23	FAST/SPS sintering of nanocrystalline zinc oxideâ€"Part I: Enhanced densification and formation of hydrogen-related defects in presence of adsorbed water. Journal of the European Ceramic Society, 2016, 36, 1207-1220.	5.7	56
24	Ultrafast ZnO nanowire lasers: nanoplasmonic acceleration of gain dynamics at the surface plasmon polariton frequency. , 2016, , .		0
25	Nature of AX Centers in Antimony-Doped Cadmium Telluride Nanobelts. Nano Letters, 2015, 15, 974-980.	9.1	10
26	Ultrafast Dynamics of Lasing Semiconductor Nanowires. Nano Letters, 2015, 15, 4637-4643.	9.1	51
27	Polarization features of optically pumped CdS nanowire lasers. Journal Physics D: Applied Physics, 2014, 47, 394012.	2.8	23
28	Flash Sintering of Nanocrystalline Zinc Oxide and its Influence on Microstructure and Defect Formation. Journal of the American Ceramic Society, 2014, 97, 1728-1735.	3.8	131
29	Amphoteric Nature of Sn in CdS Nanowires. Nano Letters, 2014, 14, 518-523.	9.1	32
30	Highly efficient visible-light driven photocatalysts: a case of zinc stannate based nanocrystal assemblies. Journal of Materials Chemistry A, 2014, 2, 4157-4167.	10.3	40
31	Gate modulation of below-band-gap photoconductivity in ZnO nanowire field-effect-transistors. Journal Physics D: Applied Physics, 2014, 47, 394014.	2.8	6
32	Single Step Integration of ZnO Nano- and Microneedles in Si Trenches by Novel Flame Transport Approach: Whispering Gallery Modes and Photocatalytic Properties. ACS Applied Materials & Emp; Interfaces, 2014, 6, 7806-7815.	8.0	156
33	Improving the Optical Properties of Self-Catalyzed GaN Microrods toward Whispering Gallery Mode Lasing. ACS Photonics, 2014, 1, 990-997.	6.6	37
34	Ultrafast plasmonic nanowire lasers near the surface plasmon frequency. Nature Physics, 2014, 10, 870-876.	16.7	262
35	Intense Intrashell Luminescence of Eu-Doped Single ZnO Nanowires at Room Temperature by Implantation Created Eu–O _i Complexes. Nano Letters, 2014, 14, 4523-4528.	9.1	63
36	Intense intraâ€3d luminescence and waveguide properties of single Coâ€doped ZnO nanowires. Physica Status Solidi - Rapid Research Letters, 2013, 7, 886-889.	2.4	9

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#	Article	IF	CITATIONS
37	Continuous Wave Nanowire Lasing. Nano Letters, 2013, 13, 3602-3606.	9.1	52
38	Low threshold room-temperature lasing of CdS nanowires. Nanotechnology, 2012, 23, 365204.	2.6	48