

Robert RÄnder

List of Publications by Year in descending order

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38
papers

1,246
citations

430874

18
h-index

361022

35
g-index

39
all docs

39
docs citations

39
times ranked

1974
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrafast plasmonic nanowire lasers near the surface plasmon frequency. <i>Nature Physics</i> , 2014, 10, 870-876.	16.7	262
2	Single Step Integration of ZnO Nano- and Microneedles in Si Trenches by Novel Flame Transport Approach: Whispering Gallery Modes and Photocatalytic Properties. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 7806-7815.	8.0	156
3	Flash Sintering of Nanocrystalline Zinc Oxide and its Influence on Microstructure and Defect Formation. <i>Journal of the American Ceramic Society</i> , 2014, 97, 1728-1735.	3.8	131
4	Intense Intrashell Luminescence of Eu-Doped Single ZnO Nanowires at Room Temperature by Implantation Created Eu ^O Complexes. <i>Nano Letters</i> , 2014, 14, 4523-4528.	9.1	63
5	FAST/SPS sintering of nanocrystalline zinc oxide—Part I: Enhanced densification and formation of hydrogen-related defects in presence of adsorbed water. <i>Journal of the European Ceramic Society</i> , 2016, 36, 1207-1220.	5.7	56
6	Continuous Wave Nanowire Lasing. <i>Nano Letters</i> , 2013, 13, 3602-3606.	9.1	52
7	Conversionless efficient and broadband laser light diffusers for high brightness illumination applications. <i>Nature Communications</i> , 2020, 11, 1437.	12.8	52
8	Ultrafast Dynamics of Lasing Semiconductor Nanowires. <i>Nano Letters</i> , 2015, 15, 4637-4643.	9.1	51
9	Low threshold room-temperature lasing of CdS nanowires. <i>Nanotechnology</i> , 2012, 23, 365204.	2.6	48
10	Highly efficient visible-light driven photocatalysts: a case of zinc stannate based nanocrystal assemblies. <i>Journal of Materials Chemistry A</i> , 2014, 2, 4157-4167.	10.3	40
11	Improving the Optical Properties of Self-Catalyzed GaN Microrods toward Whispering Gallery Mode Lasing. <i>ACS Photonics</i> , 2014, 1, 990-997.	6.6	37
12	Amphoteric Nature of Sn in CdS Nanowires. <i>Nano Letters</i> , 2014, 14, 518-523.	9.1	32
13	Transition Metal and Rare Earth Element Doped Zinc Oxide Nanowires for Optoelectronics. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1800604.	1.5	30
14	Carrier density driven lasing dynamics in ZnO nanowires. <i>Nanotechnology</i> , 2016, 27, 225702.	2.6	28
15	Mode Switching and Filtering in Nanowire Lasers. <i>Nano Letters</i> , 2016, 16, 2878-2884.	9.1	25
16	Review on the dynamics of semiconductor nanowire lasers. <i>Semiconductor Science and Technology</i> , 2018, 33, 033001.	2.0	24
17	Polarization features of optically pumped CdS nanowire lasers. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 394012.	2.8	23
18	Dynamical Tuning of Nanowire Lasing Spectra. <i>Nano Letters</i> , 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	Nature of AX Centers in Antimony-Doped Cadmium Telluride Nanobelts. Nano Letters, 2015, 15, 974-980.	9.1	10
21	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
22	Intense intra-3d luminescence and waveguide properties of single Co-doped ZnO nanowires. Physica Status Solidi - Rapid Research Letters, 2013, 7, 886-889.	2.4	9
23	Excitation Energy Dependent Ultrafast Luminescence Behavior of CdS Nanostructures. ACS Photonics, 2017, 4, 1067-1075.	6.6	9
24	Tailoring Spectral and Temporal Properties of Semiconductor Nanowire Lasers. Advanced Optical Materials, 2019, 7, 1900504.	7.3	9
25	Polarization Dependent Excitation and High Harmonic Generation from Intense Mid-IR Laser Pulses in ZnO. Nanomaterials, 2021, 11, 4.	4.1	9
26	Improving gas sensing by CdTe decoration of individual Aerographite microtubes. Nanotechnology, 2019, 30, 065501.	2.6	8
27	Enhanced absorption and cavity effects of three-photon pumped ZnO nanowires. Applied Physics Letters, 2017, 111, 213106.	3.3	7
28	Gate modulation of below-band-gap photoconductivity in ZnO nanowire field-effect-transistors. Journal Physics D: Applied Physics, 2014, 47, 394014.	2.8	6
29	Polarization dependent multiphoton absorption in ZnO thin films. Journal Physics D: Applied Physics, 2020, 53, 055102.	2.8	6
30	Electroluminescence of intrashell transitions in Eu doped single ZnO nanowires. Nanotechnology, 2019, 30, 095201.	2.6	5
31	Strong Light-Field Driven Nanolasers. Nano Letters, 2019, 19, 3563-3568.	9.1	4
32	Single nanowire defined emission properties of ZnO nanowire arrays. Journal Physics D: Applied Physics, 2019, 52, 295101.	2.8	4
33	Growth of ¹⁸ O isotopically-enriched ZnO nanorods by two novel VPT methods. Journal of Crystal Growth, 2017, 460, 85-93.	1.5	2
34	Paramagnetic, NIR-luminescent Nd ³⁺ and Gd ³⁺ -doped fluorapatite as contrast agent for multimodal biomedical imaging. Journal of the American Ceramic Society, 2018, 101, 4441-4446.	3.8	2
35	Local atomic environment of the Cu-related defect in zinc oxide. Journal Physics D: Applied Physics, 2017, 50, 145105.	2.8	1
36	Damage recovery and dopant migration of Eu ⁺ ion implanted KTiOAsO ₄ crystals. Nuclear Instruments & Methods in Physics Research B, 2018, 435, 209-213.	1.4	1

#	ARTICLE	IF	CITATIONS
37	Role of free-carrier interaction in strong-field excitations in semiconductors. Physical Review B, 2021, 104, .	3.2	1
38	Ultrafast ZnO nanowire lasers: nanoplasmonic acceleration of gain dynamics at the surface plasmon polariton frequency. , 2016, , .		0