Apurba Dev

List of Publications by Year
in descending order

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44 papers	1,184 citations	394421 19 h-index	377865 34 g-index
47 all docs	47 docs citations	47 times ranked	1883 citing authors

#	Article	IF	Citations
1	Simple Solvothermal Route To Synthesize ZnO Nanosheets, Nanonails, and Well-Aligned Nanorod Arrays. Journal of Physical Chemistry B, 2006, 110, 17848-17853.	2.6	159
2	Optical and field emission properties of ZnO nanorod arrays synthesized on zinc foils by the solvothermal route. Nanotechnology, 2006, 17, 1533-1540.	2.6	92
3	Surfactant-Assisted Route to Synthesize Well-Aligned ZnO Nanorod Arrays on Solâ^'Gel-Derived ZnO Thin Films. Journal of Physical Chemistry B, 2006, 110, 14266-14272.	2.6	86
4	Fabrication and Luminescent Properties ofc-Axis Oriented ZnOâ^'ZnS Coreâ^'Shell and ZnS Nanorod Arrays by Sulfidation of Aligned ZnO Nanorod Arrays. Journal of Physical Chemistry C, 2007, 111, 5039-5043.	3.1	81
5	Direct synthesis of ZnO nanowire arrays on Zn foil by a simple thermal evaporation process. Nanotechnology, 2008, 19, 065606.	2.6	79
6	Stable enhancement of near-band-edge emission of ZnO nanowires by hydrogen incorporation. Nanotechnology, 2010, 21, 065709.	2.6	60
7	Label-Free Surface Protein Profiling of Extracellular Vesicles by an Electrokinetic Sensor. ACS Sensors, 2019, 4, 1399-1408.	7.8	54
8	Surfactant-Assisted Synthesis of SnS Nanowires Grown on Tin Foils. Crystal Growth and Design, 2006, 6, 2177-2181.	3.0	50
9	Enhancement of the near-band-edge photoluminescence of ZnO nanowires: Important role of hydrogen incorporation versus plasmon resonances. Applied Physics Letters, 2011, 98, 131111.	3.3	43
10	Multiparametric Profiling of Single Nanoscale Extracellular Vesicles by Combined Atomic Force and Fluorescence Microscopy: Correlation and Heterogeneity in Their Molecular and Biophysical Features. Small, 2021, 17, e2008155.	10.0	31
11	Surface effects and nonlinear optical properties of ZnO nanowires. Physica Status Solidi (B): Basic Research, 2010, 247, 2476-2487.	1.5	30
12	Electrochemical reduction of O2 in 1-butyl-1-methylpyrrolidinium bis(trifluoromethanesulfonyl)imide ionic liquid containing Zn2+ cations: deposition of non-polar oriented ZnO nanocrystalline films. Physical Chemistry Chemical Physics, 2011, 13, 13433.	2.8	30
13	Oxygen-Controlled Photoconductivity in ZnO Nanowires Functionalized with Colloidal CdSe Quantum Dots. Journal of Physical Chemistry C, 2012, 116, 19604-19610.	3.1	29
14	Silicon micro-structure and ZnO nanowire hierarchical assortments for light management. Optical Materials Express, 2013, 3, 1039.	3.0	26
15	Fabrication of zinc oxide nanowires/polymer composites by twoâ€photon polymerization. Journal of Polymer Science, Part B: Polymer Physics, 2014, 52, 333-337.	2.1	26
16	Hybrid LEDs based on ZnOâ€nanowire arrays. Physica Status Solidi (B): Basic Research, 2010, 247, 1564-1567.	1.5	25
17	Femtosecond laser processing of glassy and polymeric matrices containing metals and semiconductor nanostructures. Optical Materials, 2013, 35, 2643-2648.	3.6	25
18	Uniform large-scale growth of micropatterned arrays of ZnO nanowires synthesized by a surfactant assisted approach. Nanotechnology, 2007, 18, 175607.	2.6	23

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19	Fabrication of Periodic Nanostructure Assemblies by Interfacial Energy Driven Colloidal Lithography. Advanced Functional Materials, 2014, 24, 4577-4583.	14.9	21
20	ZnO 1-D nanostructures: Low temperature synthesis and characterizations. Bulletin of Materials Science, 2008, 31, 551-559.	1.7	18
21	Tailoring the properties of semiconductor nanowires using ion beams. Physica Status Solidi (B): Basic Research, 2010, 247, 2329-2337.	1.5	18
22	Influence of metallic coatings on the photoluminescence properties of ZnO nanowires. Physica Status Solidi - Rapid Research Letters, 2009, 3, 166-168.	2.4	16
23	Optical properties of Mg0.05Zn0.95O/SiO2 nanocomposite films prepared by solâ€“gel technique. Journal of Nanoparticle Research, 2005, 7, 195-201.	1.9	15
24	Optical Applications of ZnO Nanowires. IEEE Journal of Selected Topics in Quantum Electronics, 2011, 17, 896-906.	2.9	15
25	Electrokinetic effect for molecular recognition: A label-free approach for real-time biosensing. Biosensors and Bioelectronics, 2016, 82, 55-63.	10.1	14
26	Highly hydrophobic hierarchical nanomicro roughness polymer surface created by stamping and laser micromachining. Journal of Applied Polymer Science, 2015, 132, .	2.6	12
27	Exploiting Electrostatic Interaction for Highly Sensitive Detection of Tumor-Derived Extracellular Vesicles by an Electrokinetic Sensor. ACS Applied Materials & Interfaces, 2021, 13, 42513-42521.	8.0	12
28	Functional ZnO/polymer core-shell nanowires fabricated by oxidative chemical vapour deposition. Journal Physics D: Applied Physics, 2014, 47, 394004.	2.8	11
29	Enhancement of UV luminescence in sol-gel prepared ZnO thin films by incorporation of Mg. Physica Status Solidi (A) Applications and Materials Science, 2005, 202, 441-448.	1.8	10
30	Influence of molecular size and zeta potential in electrokinetic biosensing. Biosensors and Bioelectronics, 2020, 152, 112005.	10.1	10
31	Multiplexed electrokinetic sensor for detection and therapy monitoring of extracellular vesicles from liquid biopsies of non-small-cell lung cancer patients. Biosensors and Bioelectronics, 2021, 193, 113568.	10.1	10
32	Electrokinetic sandwich assay and DNA mediated charge amplification for enhanced sensitivity and specificity. Biosensors and Bioelectronics, 2021, 176, 112917.	10.1	9
33	Growth of ZnO Nanocrystals by a Solvothermal Technique and Their Photoluminescence Properties. Journal of Nanoscience and Nanotechnology, 2007, 7, 2778-2784.	0.9	8
34	Recombinant Spider Silk as Mediator for Oneâ€Step, Chemicalâ€Free Surface Biofunctionalization. Advanced Functional Materials, 2018, 28, 1800206.	14.9	8
35	Generation of substrate-free IIIâ€“V nanodisks from user-defined multilayer nanopillar arrays for integration on Si. Nanotechnology, 2013, 24, 225301.	2.6	7
36	Comparison and optimization of nanoscale extracellular vesicle imaging by scanning electron microscopy for accurate size-based profiling and morphological analysis. Nanoscale Advances, 2021, 3, 3053-3063.	4.6	7

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37	ZnO Hierarchical Nanostructures: Simple Solvothermal Synthesis and Growth Mechanism. Journal of Nanoscience and Nanotechnology, 2008, 8, 4506-4513.	0.9	4
38	High quality InP nanopyramidal frusta on Si. CrystEngComm, 2014, 16, 4624-4632.	2.6	4
39	Towards optical hyperdoping of binary oxide semiconductors. Journal of Applied Physics, 2013, 113, .	2.5	2
40	Electrokinetic-assisted gating in a microfluidic integrated Si nanoribbon ion sensor for enhanced sensitivity. Sensors and Actuators B: Chemical, 2018, 262, 974-981.	7.8	2
41	Photoconductivity of ZnO Nanowires Decorated with CdSe Quantum Dots. Materials Research Society Symposia Proceedings, 2012, 1408, 17.	0.1	1
42	MeMC: A package for Monte Carlo simulations of spherical shells. Journal of Open Source Software, 2022, 7, 4305.	4.6	1
43	Surface structuring of ZnO wafers with femtosecond laser pulses: From laser-induced periodic surface structures to doping. , 2011, , .		0
44	ZnO hierarchical nanostructures: simple solvothermal synthesis and growth mechanism. Journal of Nanoscience and Nanotechnology, 2008, 8, 4506-13.	0.9	0