

Apurba Dev

List of Publications by Year in descending order

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Version: 2024-02-01

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	MeMC: A package for Monte Carlo simulations of spherical shells. Journal of Open Source Software, 2022, 7, 4305.	4.6	1
2	Electrokinetic sandwich assay and DNA mediated charge amplification for enhanced sensitivity and specificity. Biosensors and Bioelectronics, 2021, 176, 112917.	10.1	9
3	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
4	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
5	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
6	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
7	Influence of molecular size and zeta potential in electrokinetic biosensing. Biosensors and Bioelectronics, 2020, 152, 112005.	10.1	10
8	Label-Free Surface Protein Profiling of Extracellular Vesicles by an Electrokinetic Sensor. ACS Sensors, 2019, 4, 1399-1408.	7.8	54
9	Recombinant Spider Silk as Mediator for One-Step, Chemical-Free Surface Biofunctionalization. Advanced Functional Materials, 2018, 28, 1800206.	14.9	8
10	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
11	Electrokinetic effect for molecular recognition: A label-free approach for real-time biosensing. Biosensors and Bioelectronics, 2016, 82, 55-63.	10.1	14
12	Highly hydrophobic hierarchical nanomicro roughness polymer surface created by stamping and laser micromachining. Journal of Applied Polymer Science, 2015, 132, .	2.6	12
13	Functional ZnO/polymer core-shell nanowires fabricated by oxidative chemical vapour deposition. Journal Physics D: Applied Physics, 2014, 47, 394004.	2.8	11
14	Fabrication of zinc oxide nanowires/polymer composites by two-photon polymerization. Journal of Polymer Science, Part B: Polymer Physics, 2014, 52, 333-337.	2.1	26
15	High quality InP nanopyramidal frusta on Si. CrystEngComm, 2014, 16, 4624-4632.	2.6	4
16	Fabrication of Periodic Nanostructure Assemblies by Interfacial Energy Driven Colloidal Lithography. Advanced Functional Materials, 2014, 24, 4577-4583.	14.9	21
17	Generation of substrate-free III-V nanodisks from user-defined multilayer nanopillar arrays for integration on Si. Nanotechnology, 2013, 24, 225301.	2.6	7
18	Femtosecond laser processing of glassy and polymeric matrices containing metals and semiconductor nanostructures. Optical Materials, 2013, 35, 2643-2648.	3.6	25

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19	Silicon micro-structure and ZnO nanowire hierarchical assortments for light management. Optical Materials Express, 2013, 3, 1039.	3.0	26
20	Towards optical hyperdoping of binary oxide semiconductors. Journal of Applied Physics, 2013, 113, .	2.5	2
21	Oxygen-Controlled Photoconductivity in ZnO Nanowires Functionalized with Colloidal CdSe Quantum Dots. Journal of Physical Chemistry C, 2012, 116, 19604-19610.	3.1	29
22	Photoconductivity of ZnO Nanowires Decorated with CdSe Quantum Dots. Materials Research Society Symposia Proceedings, 2012, 1408, 17.	0.1	1
23	Electrochemical reduction of O ₂ in 1-butyl-1-methylpyrrolidinium bis(trifluoromethanesulfonyl)imide ionic liquid containing Zn ²⁺ cations: deposition of non-polar oriented ZnO nanocrystalline films. Physical Chemistry Chemical Physics, 2011, 13, 13433.	2.8	30
24	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
25	Optical Applications of ZnO Nanowires. IEEE Journal of Selected Topics in Quantum Electronics, 2011, 17, 896-906.	2.9	15
26	Surface structuring of ZnO wafers with femtosecond laser pulses: From laser-induced periodic surface structures to doping. , 2011, , .		0
27	Hybrid LEDs based on ZnO nanowire arrays. Physica Status Solidi (B): Basic Research, 2010, 247, 1564-1567.	1.5	25
28	Surface effects and nonlinear optical properties of ZnO nanowires. Physica Status Solidi (B): Basic Research, 2010, 247, 2476-2487.	1.5	30
29	Tailoring the properties of semiconductor nanowires using ion beams. Physica Status Solidi (B): Basic Research, 2010, 247, 2329-2337.	1.5	18
30	Stable enhancement of near-band-edge emission of ZnO nanowires by hydrogen incorporation. Nanotechnology, 2010, 21, 065709.	2.6	60
31	Influence of metallic coatings on the photoluminescence properties of ZnO nanowires. Physica Status Solidi - Rapid Research Letters, 2009, 3, 166-168.	2.4	16
32	ZnO 1-D nanostructures: Low temperature synthesis and characterizations. Bulletin of Materials Science, 2008, 31, 551-559.	1.7	18
33	Direct synthesis of ZnO nanowire arrays on Zn foil by a simple thermal evaporation process. Nanotechnology, 2008, 19, 065606.	2.6	79
34	ZnO Hierarchical Nanostructures: Simple Solvothermal Synthesis and Growth Mechanism. Journal of Nanoscience and Nanotechnology, 2008, 8, 4506-4513.	0.9	4
35	ZnO hierarchical nanostructures: simple solvothermal synthesis and growth mechanism. Journal of Nanoscience and Nanotechnology, 2008, 8, 4506-13.	0.9	0
36	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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37	Growth of ZnO Nanocrystals by a Solvothermal Technique and Their Photoluminescence Properties. Journal of Nanoscience and Nanotechnology, 2007, 7, 2778-2784.	0.9	8
38	Fabrication and Luminescent Properties of c-Axis Oriented ZnO/ZnS Core/Shell and ZnS Nanorod Arrays by Sulfidation of Aligned ZnO Nanorod Arrays. Journal of Physical Chemistry C, 2007, 111, 5039-5043.	3.1	81
39	Surfactant-Assisted Route to Synthesize Well-Aligned ZnO Nanorod Arrays on Sol-Gel-Derived ZnO Thin Films. Journal of Physical Chemistry B, 2006, 110, 14266-14272.	2.6	86
40	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
41	Surfactant-Assisted Synthesis of SnS Nanowires Grown on Tin Foils. Crystal Growth and Design, 2006, 6, 2177-2181.	3.0	50
42	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
43	Optical properties of Mg _{0.05} Zn _{0.95} O/SiO ₂ nanocomposite films prepared by sol-gel technique. Journal of Nanoparticle Research, 2005, 7, 195-201.	1.9	15
44	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