

Abhilash Sugunan

List of Publications by Year in descending order

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36
papers

1,067
citations

759233

12
h-index

477307

29
g-index

37
all docs

37
docs citations

37
times ranked

1911
citing authors

#	ARTICLE	IF	CITATIONS
1	Zinc oxide nanowires in chemical bath on seeded substrates: Role of hexamine. <i>Journal of Sol-Gel Science and Technology</i> , 2006, 39, 49-56.	2.4	298
2	Heavy-metal ion sensors using chitosan-capped gold nanoparticles. <i>Science and Technology of Advanced Materials</i> , 2005, 6, 335-340.	6.1	278
3	Nutrition-Driven Assembly of Colloidal Nanoparticles: Growing Fungi Assemble Gold Nanoparticles as Microwires. <i>Advanced Materials</i> , 2007, 19, 77-81.	21.0	84
4	Colloidal Flower-Shaped Iron Oxide Nanoparticles: Synthesis Strategies and Coatings. <i>Particle and Particle Systems Characterization</i> , 2017, 34, 1700094.	2.3	71
5	Radially Oriented ZnO Nanowires on Flexible Poly(L-lactide) Nanofibers for Continuous-Flow Photocatalytic Water Purification. <i>Journal of the American Ceramic Society</i> , 2010, 93, 3740-3744.	3.8	57
6	Structural and magnetic properties of multi-core nanoparticles analysed using a generalised numerical inversion method. <i>Scientific Reports</i> , 2017, 7, 45990.	3.3	41
7	Functionalized magnetic particles for water treatment. <i>Heliyon</i> , 2019, 5, e02325.	3.2	34
8	Microwave assisted synthesis of ZnS quantum dots using ionic liquids. <i>Materials Letters</i> , 2012, 89, 316-319.	2.6	23
9	Synthesis of tetrahedral quasi-type-II CdSe/CdS core-shell quantum dots. <i>Nanotechnology</i> , 2011, 22, 425202.	2.6	18
10	Polymer/Iron Oxide Nanoparticle Composites—A Straight Forward and Scalable Synthesis Approach. <i>International Journal of Molecular Sciences</i> , 2015, 16, 19752-19768.	4.1	18
11	Size-tunable synthesis of photoconducting poly(3-hexylthiophene) nanofibres and nanocomposites. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2012, 9, 1546-1550.	0.8	15
12	Synthesis of uniform quasi-octahedral CeO ₂ mesocrystals via a surfactant-free route. <i>Journal of Nanoparticle Research</i> , 2011, 13, 5879-5885.	1.9	13
13	Photoluminescence from quasi-type-II spherical CdSe-CdS core-shell quantum dots. <i>Applied Optics</i> , 2013, 52, 105.	1.8	13
14	Low-temperature synthesis of photoconducting CdTe nanotetrapods. <i>Journal of Materials Chemistry</i> , 2010, 20, 1208-1214.	6.7	11
15	Electric field induced optical anisotropy of P3HT nanofibers in a liquid solution. <i>Optical Materials Express</i> , 2015, 5, 2642.	3.0	11
16	Novel Synthesis of Gold Nanoparticles in Aqueous Media. <i>Materials Research Society Symposia Proceedings</i> , 2005, 901, 1.	0.1	9
17	Size Impact of Ordered P3HT Nanofibers on Optical Anisotropy. <i>Macromolecular Chemistry and Physics</i> , 2016, 217, 1089-1095.	2.2	8
18	Surfactant-Free Stabilization of Aqueous Graphene Dispersions Using Starch as a Dispersing Agent. <i>ACS Omega</i> , 2021, 6, 12050-12062.	3.5	8

#	ARTICLE	IF	CITATIONS
19	Synthesis of high aspect ratio gold nanorods and their effects on human antigen presenting dendritic cells. International Journal of Nanotechnology, 2011, 8, 631.	0.2	7
20	Graphene and Flavin Mononucleotide Interaction in Aqueous Graphene Dispersions. Journal of Physical Chemistry C, 2019, 123, 26282-26288.	3.1	7
21	Colloidal self-organization for nanoelectronics. , 2004, , .		5
22	Relaxation is the key to longer life: suppressed degradation of P3HT films on conductive substrates. Journal of Materials Chemistry A, 2014, 2, 13270-13276.	10.3	5
23	Dynamic Manipulation of Optical Anisotropy of Suspended Poly(3-hexylthiophene) Nanofibers. Advanced Optical Materials, 2016, 4, 1651-1656.	7.3	5
24	Direct birefringence and transmission modulation via dynamic alignment of P3HT nanofibers in an advanced opto-fluidic component. Optical Materials Express, 2017, 7, 52.	3.0	4
25	Surfactant-free starch-graphene composite films as simultaneous oxygen and water vapour barriers. Npj 2D Materials and Applications, 2022, 6, .	7.9	4
26	Highly Conductive Films by Rapid Photonic Annealing of Inkjet Printable Starch-Graphene Ink. Advanced Materials Interfaces, 2022, 9, 2101884.	3.7	4
27	Polymeric/Inorganic Multifunctional Nanoparticles for Simultaneous Drug Delivery and Visualization. Materials Research Society Symposia Proceedings, 2010, 1257, 1.	0.1	3
28	Microwave mediated synthesis of semiconductor quantum dots. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 1551-1556.	0.8	3
29	Forensic Fingerprint Enhancement using Bioadhesive Chitosan and Gold Nanoparticles. , 2007, , .		2
30	ZnO nanorods/nanoflowers and their applications. , 2011, , .		2
31	Compacted nanoscale sensors by merging ZnO nanorods with interdigitated electrodes. Proceedings of SPIE, 2011, , .	0.8	1
32	Direct Determination of Spatial Localization of Carriers in CdSe-CdS Quantum Dots. Journal of Nanomaterials, 2015, 2015, 1-7.	2.7	1
33	Synthesis of Nanostructured Antimony Telluride for Thermoelectric Applications. Materials Research Society Symposia Proceedings, 2015, 1742, 1.	0.1	0
34	Optical birefringence from P3HT nanofibers in alternating electric field. , 2016, , .		0
35	Active Cooperative Assemblies Towards Nanocomposites. , 2008, , .		0
36	Measurement of Radiative Lifetime in CdSe/CdS Core/shell Structured Quantum Dots. , 2009, , .		0