Abhilash Sugunan

List of Publications by Year
in descending order

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		759233	477307
36	1,067	12	29
papers	citations	h-index	g-index

37	37	37	1911
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Surfactant-free starch-graphene composite films as simultaneous oxygen and water vapour barriers. Npj 2D Materials and Applications, 2022, 6, .	7.9	4
2	Highly Conductive Films by Rapid Photonic Annealing of Inkjet Printable Starchâ€“Graphene Ink. Advanced Materials Interfaces, 2022, 9, 2101884.	3.7	4
3	Surfactant-Free Stabilization of Aqueous Graphene Dispersions Using Starch as a Dispersing Agent. ACS Omega, 2021, 6, 12050-12062.	3.5	8
4	Functionalized magnetic particles for water treatment. Heliyon, 2019, 5, e02325.	3.2	34
5	Graphene and Flavin Mononucleotide Interaction in Aqueous Graphene Dispersions. Journal of Physical Chemistry C, 2019, 123, 26282-26288.	3.1	7
6	Structural and magnetic properties of multi-core nanoparticles analysed using a generalised numerical inversion method. Scientific Reports, 2017, 7, 45990.	3.3	41
7	Colloidal Flowerâ€shaped Iron Oxide Nanoparticles: Synthesis Strategies and Coatings. Particle and Particle Systems Characterization, 2017, 34, 1700094.	2.3	71
8	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
9	Optical birefringence from P3HT nanofibers in alternating electric field. , 2016, , .		0
10	Dynamic Manipulation of Optical Anisotropy of Suspended Polyâ€3â€hexylthiophene Nanofibers. Advanced Optical Materials, 2016, 4, 1651-1656.	7.3	5
11	Size Impact of Ordered P3HT Nanofibers on Optical Anisotropy. Macromolecular Chemistry and Physics, 2016, 217, 1089-1095.	2.2	8
12	Polymer/Iron Oxide Nanoparticle Compositesâ€”A Straight Forward and Scalable Synthesis Approach. International Journal of Molecular Sciences, 2015, 16, 19752-19768.	4.1	18
13	Electric field induced optical anisotropy of P3HT nanofibers in a liquid solution. Optical Materials Express, 2015, 5, 2642.	3.0	11
14	Direct Determination of Spatial Localization of Carriers in CdSe-CdS Quantum Dots. Journal of Nanomaterials, 2015, 2015, 1-7.	2.7	1
15	Synthesis of Nanostructured Antimony Telluride for Thermoelectric Applications. Materials Research Society Symposia Proceedings, 2015, 1742, 1.	0.1	0
16	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
17	Photoluminescence from quasi-type-II spherical CdSe-CdS core-shell quantum dots. Applied Optics, 2013, 52, 105.	1.8	13
18	Microwave assisted synthesis of ZnS quantum dots using ionic liquids. Materials Letters, 2012, 89, 316-319.	2.6	23

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19	Sizeâ€tuneable synthesis of photoconducting polyâ€(3â€hexylthiophene) nanofibres and nanocomposites. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 1546-1550.	0.8	15
20	Microwave mediated synthesis of semiconductor quantum dots. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 1551-1556.	0.8	3
21	ZnO nanorods/nanoflowers and their applications. , 2011, , .		2
22	Synthesis of tetrahedral quasi-type-II CdSeâ€“CdS coreâ€“shell quantum dots. Nanotechnology, 2011, 22, 425202.	2.6	18
23	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
24	Synthesis of uniform quasi-octahedral CeO2 mesocrystals via a surfactant-free route. Journal of Nanoparticle Research, 2011, 13, 5879-5885.	1.9	13
25	Compacted nanoscale sensors by merging ZnO nanorods with interdigitated electrodes. Proceedings of SPIE, 2011, , .	0.8	1
26	Radially Oriented ZnO Nanowires on Flexible Polyâ€<scp>l</scp>â€Lactide Nanofibers for Continuousâ€Flow Photocatalytic Water Purification. Journal of the American Ceramic Society, 2010, 93, 3740-3744.	3.8	57
27	Polymeric/Inorganic Multifunctional Nanoparticles for Simultaneous Drug Delivery and Visualization. Materials Research Society Symposia Proceedings, 2010, 1257, 1.	0.1	3
28	Low-temperature synthesis of photoconducting CdTe nanotetrapods. Journal of Materials Chemistry, 2010, 20, 1208-1214.	6.7	11
29	Measurement of Radiative Lifetime in CdSe/CdS Core/shell Structured Quantum Dots. , 2009, , .		0
30	Active Cooperative Assemblies Towards Nanocomposites. , 2008, , .		0
31	Forensic Fingerprint Enhancement using Bioadhesive Chitosan and Gold Nanoparticles. , 2007, , .		2
32	Nutrition-Driven Assembly of Colloidal Nanoparticles: Growing Fungi Assemble Gold Nanoparticles as Microwires. Advanced Materials, 2007, 19, 77-81.	21.0	84
33	Zinc oxide nanowires in chemical bath on seeded substrates: Role of hexamine. Journal of Sol-Gel Science and Technology, 2006, 39, 49-56.	2.4	298
34	Heavy-metal ion sensors using chitosan-capped gold nanoparticles. Science and Technology of Advanced Materials, 2005, 6, 335-340.	6.1	278
35	Novel Synthesis of Gold Nanoparticles in Aqueous Media. Materials Research Society Symposia Proceedings, 2005, 901, 1.	0.1	9
36	Colloidal self-organization for nanoelectronics. , 2004, , .		5