Subhashis Gangopadhyay

List of Publications by Year
in descending order

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50 papers	1,689 citations	361388 20 h-index	276858 41 g-index
51 all docs	51 docs citations	51 times ranked	2765 citing authors

#	Article	IF	Citations
1	Synthesis of ZnO/Au and ZnO/Ag nanoparticles and their photocatalytic application using UV and visible light. RSC Advances, 2014, 4, 24962-24972.	3.6	362
2	Oxidation mechanism of thin Cu films: A gateway towards the formation of single oxide phase. AIP Advances, 2018, 8, .	1.3	131
3	Synthesis of Monometallic (Au and Pd) and Bimetallic (AuPd) Nanoparticles Using Carbon Nitride (C₃N₄) Quantum Dots via the Photochemical Route for Nitrophenol Reduction. Langmuir, 2016, 32, 10054-10064.	3.5	106
4	Ag₂S/Ag Heterostructure: A Promising Electrocatalyst for the Hydrogen Evolution Reaction. Langmuir, 2017, 33, 3178-3186.	3.5	91
5	Heteroatom doped blue luminescent carbon dots as a nano-probe for targeted cell labeling and anticancer drug delivery vehicle. Materials Chemistry and Physics, 2019, 237, 121860.	4.0	79
6	Toggling Bistable Atoms via Mechanical Switching of Bond Angle. Physical Review Letters, 2011, 106, 136101.	7.8	77
7	Zinc and nitrogen ornamented bluish white luminescent carbon dots for engrossing bacteriostatic activity and Fenton based bio-sensor. Materials Science and Engineering C, 2018, 88, 115-129.	7.3	76
8	Formation of Monolayer Graphene by Annealing Sacrificial Nickel Thin Films. Journal of Physical Chemistry C, 2009, 113, 16565-16567.	3.1	68
9	Biocompatible carbon dots derived from Î¹-carrageenan and phenyl boronic acid for dual modality sensing platform of sugar and its anti-diabetic drug release behavior. International Journal of Biological Macromolecules, 2019, 132, 316-329.	7.5	65
10	Mono- and multi-layer adsorption of an ionic liquid on Au(110). Physical Chemistry Chemical Physics, 2012, 14, 6054.	2.8	64
11	Natural saponin stabilized nano-catalyst as efficient dye-degradation catalyst. Nano Structures Nano Objects, 2018, 16, 86-95.	3.5	64
12	Graphitic-carbon nitride support for the synthesis of shape-dependent ZnO and their application in visible light photocatalysts. RSC Advances, 2015, 5, 80397-80409.	3.6	63
13	Dual doped biocompatible multicolor luminescent carbon dots for bio labeling, UVâ€active marker and fluorescent polymer composite. Luminescence, 2018, 33, 1136-1145.	2.9	55
14	Decoration of Pd and Pt nanoparticles on a carbon nitride (C₃N₄) surface for nitro-compounds reduction and hydrogen evolution reaction. New Journal of Chemistry, 2017, 41, 9658-9667.	2.8	41
15	Study on metal nanoparticles synthesis and orientation of gemini surfactant molecules used as stabilizer. Journal of Colloid and Interface Science, 2015, 445, 76-83.	9.4	37
16	Development of gold nanoparticle-fungal hybrid based heterogeneous interface for catalytic applications. Process Biochemistry, 2015, 50, 1293-1300.	3.7	33
17	Au/TiO₂ Nanotubes/Ti-Based Solid-State Vapor Sensor: Efficient Sensing in Resistive and Capacitive Modes. IEEE Transactions on Electron Devices, 2018, 65, 1918-1924.	3.0	26
18	Growth and characterization of epitaxially stabilized ceria(001) nanostructures on Ru(0001). Nanoscale, 2016, 8, 10849-10856.	5.6	22

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19	A reverse electrochemical floating-layer technique of SPM tip preparation. Measurement Science and Technology, 2000, 11, 1426-1431.	2.6	21
20	Microstructural, chemical bonding, stress development and charge storage characteristics of Ge nanocrystals embedded in hafnium oxide. Journal of Nanoparticle Research, 2011, 13, 587-595.	1.9	20
21	Self-organized 2D nanopatterns after low-coverage Ga adsorption on Si (1 1 1). New Journal of Physics, 2005, 7, 193-193.	2.9	18
22	A novel approach for the growth of InGaN quantum dots. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 3955-3958.	0.8	14
23	Cleaning and growth morphology of GaN and InGaN surfaces. Physica Status Solidi (B): Basic Research, 2011, 248, 1800-1809.	1.5	13
24	Adsorbate induced self-ordering of germanium nanoislands on Si(113). New Journal of Physics, 2007, 9, 392-392.	2.9	12
25	Ultra-thin high-quality silicon nitride films on Si(111). Europhysics Letters, 2011, 94, 16003.	2.0	12
26	Surface oxidation of GaN(0001): Nitrogen plasma-assisted cleaning for ultrahigh vacuum applications. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2014, 32, 051401.	2.1	11
27	Optimized Resistive Switching in TiO₂ Nanotubes by Modulation of Oxygen Vacancy Through Chemical Reduction. IEEE Transactions on Electron Devices, 2020, 67, 2197-2204.	3.0	11
28	Initial stage of silicon nitride nucleation on Si(111) by rf plasma-assisted growth. E-Journal of Surface Science and Nanotechnology, 2006, 4, 84-89.	0.4	10
29	N-plasma assisted MBE grown GaN films on Si(111). Physica Status Solidi (B): Basic Research, 2006, 243, 1416-1420.	1.5	10
30	Growth and characterization of single phase Cu2O by thermal oxidation of thin copper films. AIP Conference Proceedings, 2016, , .	0.4	9
31	Mg and Si dopant incorporation and segregation in GaN. Physica Status Solidi (B): Basic Research, 2011, 248, 1810-1821.	1.5	8
32	Influence of substrate domain boundaries on surface reconstructions of Ga/Si(111). Surface Science, 2004, 552, 63-69.	1.9	7
33	C60 submonolayers on the Si(111)-(7Ã—7) surface: Does a mixture of physisorbed and chemisorbed states exist?. Surface Science, 2009, 603, 2896-2901.	1.9	6
34	Role of Different States of Solubilized Water on Solvation Dynamics and Rotational Relaxation of Coumarin 490 in Reverse Micelles of Gemini Surfactants, Water/12-s-12.2Br^{â€“} (s = 5, 6, 8)/n-Propanol/Cyclohexane. ACS Omega, 2020, 5, 6738-6753.	3.5	6
35	Surface segregation of Si and Mg dopants in MOVPE grown GaN films revealed by X-ray photoemission spectro-microscopy. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 1725-1728.	0.8	5
36	Thin Cu film resistivity using four probe techniques: Effect of film thickness and geometrical shapes. AIP Conference Proceedings, 2018, , .	0.4	5

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37	1-D TiO₂ Nanorods Array-Based Parallel Electrode Sensor for Selective and Stable Detection of Organic Vapors. IEEE Sensors Journal, 2020, 20, 664-671.	4.7	5
38	Two to three dimensional transitions of InGaN and the impact of GaN overgrowth. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 1396-1399.	0.8	4
39	Two-step growth of InGaN quantum dots and application to light emitters. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 2407-2410.	0.8	4
40	Evolution of Ge nanoislands on Si(110)-â€˜16 Ã— 2â€™ surface under thermal annealing studied using STM. Nanotechnology, 2009, 20, 475401.	2.6	4
41	Zinc oxide nano-structures: From nano-wall to nano-rod growth morphology. AIP Conference Proceedings, 2018, , .	0.4	3
42	Crystalline Silicon Nitride Films on Si(111): Growth Mechanism, Surface Structure and Chemistry down to Atomic Scale. , 0, , .		3
43	An inexpensive up-gradation of scanning tunneling microscope for ballistic electron emission microscopy and spectroscopy. Applied Surface Science, 2000, 156, 183-188.	6.1	2
44	CO Gas-Sensing at Low Temperature using CuO Thin Films. , 2019, , .		2
45	Growth and formation of InGaN and GaN nano-structures studied by STM. E-Journal of Surface Science and Nanotechnology, 2006, 4, 90-95.	0.4	1
46	Growth and morphology of MOVPE grown InGaN/GaN islands. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 1557-1560.	0.8	1
47	AFM of self-organised nanoparticle arrays: frequency modulation, amplitude modulation, and force spectroscopy. Proceedings of SPIE, 2008, , .	0.8	1
48	Shape of Field-Induced Nanostructures Formed by STM. Journal of Nanomaterials, 2007, 2007, 1-5.	2.7	0
49	Growth and Characterization of ZnO Nanostructures: Materials for CO and Ethanol Sensing. Springer Proceedings in Mathematics and Statistics, 2021, , 137-149.	0.2	0
50	Surface Morphology and Island Shape of MOVPE Grown InGaN Nano-Island Ensembles Studied by STM. Materials Research Society Symposia Proceedings, 2005, 892, 759.	0.1	0