Indrani Banerjee

List of Publications by Year
in descending order

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84	3,894	279798 23	118850 62
papers	citations	h-index	g-index

86	86	86	6339
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Antifouling Coatings: Recent Developments in the Design of Surfaces That Prevent Fouling by Proteins, Bacteria, and Marine Organisms. Advanced Materials, 2011, 23, 690-718.	21.0	2,239
2	Silhouette of M87*: A new window to peek into the world of hidden dimensions. Physical Review D, 2020, 101, .	4.7	127
3	Comparative Study of the Epidemiology of Rotavirus in Children from a Community-Based Birth Cohort and a Hospital in South India. Journal of Clinical Microbiology, 2006, 44, 2468-2474.	3.9	101
4	Modification of rotavirus multiplex RTâ€PCR for the detection of G12 strains based on characterization of emerging G12 rotavirus strains from South India. Journal of Medical Virology, 2007, 79, 1413-1421.	5.0	96
5	Photoactivated Antimicrobial Activity of Carbon Nanotubeâ˜Porphyrin Conjugates. Langmuir, 2010, 26, 17369-17374.	3.5	75
6	Electric-Field-Induced Patterns in Soft Viscoelastic Films: From Long Waves of Viscous Liquids to Short Waves of Elastic Solids. Physical Review Letters, 2009, 102, 254502.	7.8	67
7	Light-activated nanotubeâ€“porphyrin conjugates as effective antiviral agents. Nanotechnology, 2012, 23, 105101.	2.6	66
8	Closing the diarrhoea diagnostic gap in Indian children by the application of molecular techniques. Journal of Medical Microbiology, 2008, 57, 1364-1368.	1.8	64
9	Preparation of Î³-Fe2O3 nanoparticles using DC thermal arc-plasma route, their characterization and magnetic properties. Scripta Materialia, 2006, 54, 1235-1240.	5.2	56
10	DC thermal arc-plasma preparation of nanometric and stoichiometric spherical magnetite (Fe3O4) powders. Materials Letters, 2004, 58, 3958-3962.	2.6	52
11	Neonatal Infection with G10P[11] Rotavirus Did Not Confer Protection against Subsequent Rotavirus Infection in a Community Cohort in Vellore, South India. Journal of Infectious Diseases, 2007, 195, 625-632.	4.0	45
12	Contact instability of thin elastic films on patterned substrates. Journal of Chemical Physics, 2007, 127, 064703.	3.0	44
13	MÃ¶ssbauer spectroscopic investigations of nanophase iron oxides synthesized by thermal plasma route. Materials Characterization, 2008, 59, 1215-1220.	4.4	41
14	Molecular characterization of G11P[25] and G3P[3] human rotavirus strains associated with asymptomatic infection in South India. Journal of Medical Virology, 2007, 79, 1768-1774.	5.0	39
15	Multiscale Pattern Generation in Viscoelastic Polymer Films by Spatiotemporal Modulation of Electric Field and Control of Rheology. Advanced Functional Materials, 2011, 21, 324-335.	14.9	36
16	Metals and minerals as a biotechnology feedstock: engineering biomining microbiology for bioenergy applications. Current Opinion in Biotechnology, 2017, 45, 144-155.	6.6	33
17	Highly Active Dinuclear Titanium(IV) Complexes for the Catalytic Formation of a Carbonâ€“Heteroatom Bond. Inorganic Chemistry, 2018, 57, 12610-12623.	4.0	31
18	Effect of ambient pressure on the crystalline phase of nano TiO2 particles synthesized by a dc thermal plasma reactor. Journal of Nanoparticle Research, 2010, 12, 581-590.	1.9	28

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19	Study of bactericidal efficiency of magnetron sputtered TiO2 films deposited at varying oxygen partial pressure. Surface and Coatings Technology, 2010, 205, 1611-1617.	4.8	24
20	Synthesis of NiOâ€“Co₃O₄nanosheet and its temperature-dependent supercapacitive behavior. Journal Physics D: Applied Physics, 2018, 51, 475501.	2.8	24
21	Transposase-Mediated Chromosomal Integration of Exogenous Genes in Acidithiobacillus ferrooxidans. Applied and Environmental Microbiology, 2018, 84, .	3.1	24
22	Decoding signatures of extra dimensions and estimating spin of quasars from the continuum spectrum. Physical Review D, 2019, 100, .	4.7	24
23	Growth of nano-particles of Al2O3, AlN and iron oxide with different crystalline phases in a thermal plasma reactor. Materials Research Bulletin, 2009, 44, 581-588.	5.2	23
24	Excavating black hole continuum spectrum: Possible signatures of scalar hairs and of higher dimensions. Physical Review D, 2017, 96, .	4.7	23
25	Engineering of Gadolinium-Decorated Graphene Oxide Nanosheets for Multimodal Bioimaging and Drug Delivery. ACS Omega, 2019, 4, 12470-12479.	3.5	22
26	In Situ Optical Emission Spectroscopic Investigations During Arc Plasma Synthesis of Iron Oxide Nanoparticles by Thermal Plasma. IEEE Transactions on Plasma Science, 2006, 34, 1175-1182.	1.3	21
27	Graphene films printable on flexible substrates for sensor applications. 2D Materials, 2017, 4, 015036.	4.4	21
28	Adhesion induced mesoscale instability patterns in thin PDMS-metal bilayers. Journal of Chemical Physics, 2008, 128, 234708.	3.0	20
29	Comparison of viral load and duration of virus shedding in symptomatic and asymptomatic neonatal rotavirus infections. Journal of Medical Virology, 2010, 82, 1803-1807.	5.0	20
30	Imprints of the Janis-Newman-Winicour spacetime on observations related to shadow and accretion. Physical Review D, 2020, 102, .	4.7	19
31	Synthesis of exfoliated multilayer graphene and its putative interactions with SARS-CoV-2 virus investigated through computational studies. Journal of Biomolecular Structure and Dynamics, 2022, 40, 712-721.	3.5	17
32	Study of mitochondrial swelling, membrane fluidity and ROS production induced by nano-TiO2 and prevented by Fe incorporation. Toxicology Research, 2019, 8, 711-722.	2.1	16
33	Graphene oxide thin films for resistive memory switches. IET Circuits, Devices and Systems, 2015, 9, 428-433.	1.4	15
34	Plasma treated graphene oxide films: structural and electrical studies. Journal of Materials Science: Materials in Electronics, 2015, 26, 4810-4815.	2.2	15
35	Recent advances in the carbonâ€“phosphorus (Câ€“P) bond formation from unsaturated compounds by s- and p-block metals. Organic and Biomolecular Chemistry, 2021, 19, 6571-6587.	2.8	15
36	Carbon nanotubes for rapid capturing of SARS-COV-2 virus: revealing a mechanistic aspect of binding based on computational studies. RSC Advances, 2021, 11, 5785-5800.	3.6	15

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37	In Situ Studies of Emission Characteristics of the DC Thermal Arc Plasma Column During Synthesis of Nano-AlN Particles. IEEE Transactions on Plasma Science, 2006, 34, 2611-2617.	1.3	14
38	Understanding of gas phase deposition of reactive magnetron sputtered TiO2 thin films and its correlation with bactericidal efficiency. Applied Surface Science, 2012, 258, 9824-9831.	6.1	14
39	Zinc catalyzed Guanylation reaction of Amines with Carbodiimides/ Isocyanate leading to Guanidines/Urea derivatives formation. Journal of Chemical Sciences, 2016, 128, 875-881.	1.5	14
40	Effect of TiO₂ and Fe doped TiO₂ nanoparticles on mitochondrial membrane potential in HBL-100 cells. Biointerphases, 2019, 14, 041003.	1.6	14
41	Radion induced inflation on nonflat brane and modulus stabilization. Physical Review D, 2019, 99, .	4.7	13
42	Does black hole continuum spectrum signal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>f</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi>R</mml:mi><mml:mo stretchy="false">)</mml:mo></mml:math> gravity in higher dimensions?. Physical Review D, 2020, 101, .	4.7	13
43	Implications of axionic hair on the shadow of M87*. Physical Review D, 2020, 101, .	4.7	13
44	Evidence of intrafamilial transmission of rotavirus in a birth cohort in South India. Journal of Medical Virology, 2008, 80, 1858-1863.	5.0	12
45	Light-activated porphyrin-based formulations to inactivate bacterial spores. Journal of Applied Microbiology, 2012, 113, 1461-1467.	3.1	12
46	Assignment of the group A rotavirus NSP4 gene into genotypes using a hemi-nested multiplex PCR assay: a rapid and reproducible assay for strain surveillance studies. Journal of Medical Microbiology, 2009, 58, 303-311.	1.8	11
47	Effect of plasma power on reduction of printable graphene oxide thin films on flexible substrates. Materials Research Express, 2018, 5, 056405.	1.6	10
48	Electron beam induced synthesis of Ru-rGO and its super capacitive behavior. 2D Materials, 2019, 6, 045030.	4.4	10
49	Looking for extra dimensions in the observed quasi-periodic oscillations of black holes. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 037.	5.4	10
50	Catalytic Hydroboration and Reductive Amination of Carbonyl Compounds by HBpin using a Zinc Promoter. Chemistry - an Asian Journal, 2022, 17, .	3.3	10
51	Bactericidal efficiency of nanostructured Alâ€“O/Tiâ€“O composite thin films prepared by dual magnetron reactive co-sputtering technique. Ceramics International, 2014, 40, 4681-4690.	4.8	8
52	Modulus stabilization in a non-flat warped braneworld scenario. European Physical Journal C, 2017, 77, 1.	3.9	7
53	Natural-dye-sensitized photoelectrochemical cells for solar energy conversion. Nanomaterials and Energy, 2020, 9, 215-226.	0.2	7
54	Implications of Einsteinâ€“Maxwell dilatonâ€“axion gravity from the black hole continuum spectrum. Monthly Notices of the Royal Astronomical Society, 2020, 500, 481-492.	4.4	7

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55	Study of Drug Transport Phenomenon of Acrylic IPNs Embedded with Iron Oxide Nanoparticles. International Journal of Polymeric Materials and Polymeric Biomaterials, 2013, 62, 509-516.	3.4	6
56	Paschen curve approach to investigate electron density and deposition rate of Cu in magnetron sputtering system. Radiation Effects and Defects in Solids, 2016, 171, 999-1005.	1.2	6
57	Photocatalytic degradation of Rhodamine B dye using Fe doped TiO2 nanocomposites. AIP Conference Proceedings, 2018, , .	0.4	6
58	Natural Basil as Photosensitizer with ZnO Thin Films for Solar Cell Applications. IETE Journal of Research, 2022, 68, 3439-3446.	2.6	6
59	A Protein and Membrane Integrity Study of TiO2 Nanoparticles-Induced Mitochondrial Dysfunction and Prevention by Iron Incorporation. Journal of Membrane Biology, 2021, 254, 217-237.	2.1	6
60	Flexible zinc oxide photoelectrode for photo electrochemical energy conversion. Journal of Materials Science: Materials in Electronics, 2021, 32, 15386-15392.	2.2	6
61	In quest of axionic hairs in quasars. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 039-039.	5.4	5
62	Functionalized Graphene Nanocomposite in Gas Sensing. , 2019, , 295-322.		5
63	Nanoâ€bio interface study betweenFecontentTiO2nanoparticles and adenosine triphosphate biomolecules. Surface and Interface Analysis, 2019, 51, 894-905.	1.8	5
64	Effect of Ambient Pressure on the Axial Behavior of $ hbox{Ar}{-}hbox{H}_{2}$ Transferred Thermal Arc-Plasma Column. IEEE Transactions on Plasma Science, 2010, 38, 982-989.	1.3	4
65	Basil sensitized ZnO photoelectrochemical cell for solar energy conversion. Materials Today: Proceedings, 2020, 32, 412-416.	1.8	4
66	Iron content titanium dioxide nanoparticles as exogenous contrast agent for tissue imaging using swept-source optical coherence tomography. AIP Advances, 2021, 11, .	1.3	4
67	Printed graphene films with positive temperature coefficient of resistivity. Materials Today: Proceedings, 2016, 3, 4035-4039.	1.8	3
68	Dynamical modelling of disc vertical structure in superthin galaxy â€˜UGC 7321â€™ in braneworld gravity: an MCMC study. Monthly Notices of the Royal Astronomical Society, 2020, 499, 5690-5701.	4.4	3
69	Photo-electrochemical Property of Microwave Synthesized Muga Silk Nanoparticles/ZnO/ITO/PET Structure. IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India), 2020, , 1-7.	3.2	3
70	Quasar continuum spectrum disfavors black holes with a magnetic monopole charge. Physical Review D, 2022, 105, .	4.7	3
71	Computation of emission characteristics of Arâ€“Fe arc plasma column during the synthesis of nano particles of Fe-oxides. Radiation Effects and Defects in Solids, 2006, 161, 451-460.	1.2	2
72	Optical Emission Spectroscopic Study During the Evaporation of Aluminium in the Thermal Plasma Reactor. Plasma Science and Technology, 2010, 12, 27-30.	1.5	2

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73	Study of the effect of plasma-striking atmosphere on Fe-oxidation in thermal dc arc-plasma processing. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2010, 28, 1399-1403.	2.1	2
74	Establishing a Relation between the Mass and the Spin of Stellar-Mass Black Holes. Physical Review Letters, 2013, 111, 061101.	7.8	2
75	Synthesis and dielectric characterisation of triiodide perovskite methylammonium lead iodide for energy applications. Journal of Materials Science: Materials in Electronics, 2018, 29, 18693-18698.	2.2	2
76	Synthesis of gadolinium oxide nanocuboids for in vitro bioimaging applications. Materials Research Express, 2019, 6, 1050c3.	1.6	2
77	Critical analysis of modulus stabilization in a higher dimensional <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>F</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi>R</mml:mi><mml:mo stretchy="false">)</mml:mo></mml:math> gravity. Physical Review D, 2021, 104, .	4.7	2
78	Biohybrid photoelectrodes for solar photovoltaic applications. Bulletin of Materials Science, 2022, 45, 1.	1.7	2
79	Surface-Modified Lanthanide Nanomaterials for Drug Delivery. , 2019, , 431-449.		1
80	Enhanced capacitive behaviour of graphene nanoplatelets embedded epoxy nanocomposite. Journal of Materials Science: Materials in Electronics, 2021, 32, 4034-4044.	2.2	1
81	Ex vivo interaction study of NaYF 4 :Yb,Er nanophosphors with isolated mitochondria. Biotechnology and Applied Biochemistry, 2021, , .	3.1	1
82	NUCLEOSYNTHESIS IN THE GAMMA-RAY BURST ACCRETION DISKS AND ASSOCIATED OUTFLOWS. , 2015, , .		0
83	Biohybrid electrodes for photoelectrochemical solar energy conversion. Journal of Renewable and Sustainable Energy, 2020, 12, 044701.	2.0	0
84	Photoresponsive properties of silk / TiO2 hybrid nanostructures. Materials Today: Proceedings, 2021, 47, 1213-1217.	1.8	0