

Indrani Banerjee

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3630489/publications.pdf>

Version: 2024-02-01

84
papers

3,894
citations

279798

23
h-index

118850

62
g-index

86
all docs

86
docs citations

86
times ranked

6339
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of exfoliated multilayer graphene and its putative interactions with SARS-CoV-2 virus investigated through computational studies. <i>Journal of Biomolecular Structure and Dynamics</i> , 2022, 40, 712-721.	3.5	17
2	Natural Basil as Photosensitizer with ZnO Thin Films for Solar Cell Applications. <i>IETE Journal of Research</i> , 2022, 68, 3439-3446.	2.6	6
3	Catalytic Hydroboration and Reductive Amination of Carbonyl Compounds by HBpin using a Zinc Promoter. <i>Chemistry - an Asian Journal</i> , 2022, 17, .	3.3	10
4	Quasar continuum spectrum disfavors black holes with a magnetic monopole charge. <i>Physical Review D</i> , 2022, 105, .	4.7	3
5	Biohybrid photoelectrodes for solar photovoltaic applications. <i>Bulletin of Materials Science</i> , 2022, 45, 1.	1.7	2
6	Recent advances in the carbon-phosphorus (C-P) bond formation from unsaturated compounds by s- and p-block metals. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 6571-6587.	2.8	15
7	Iron content titanium dioxide nanoparticles as exogenous contrast agent for tissue imaging using swept-source optical coherence tomography. <i>AIP Advances</i> , 2021, 11, .	1.3	4
8	Carbon nanotubes for rapid capturing of SARS-COV-2 virus: revealing a mechanistic aspect of binding based on computational studies. <i>RSC Advances</i> , 2021, 11, 5785-5800.	3.6	15
9	Photoresponsive properties of silk / TiO ₂ hybrid nanostructures. <i>Materials Today: Proceedings</i> , 2021, 47, 1213-1217.	1.8	0
10	Enhanced capacitive behaviour of graphene nanoplatelets embedded epoxy nanocomposite. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 4034-4044.	2.2	1
11	A Protein and Membrane Integrity Study of TiO ₂ Nanoparticles-Induced Mitochondrial Dysfunction and Prevention by Iron Incorporation. <i>Journal of Membrane Biology</i> , 2021, 254, 217-237.	2.1	6
12	Flexible zinc oxide photoelectrode for photo electrochemical energy conversion. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 15386-15392.	2.2	6
13	Ex vivo interaction study of NaYF ₄ :Yb,Er nanophosphors with isolated mitochondria. <i>Biotechnology and Applied Biochemistry</i> , 2021, , .	3.1	1
14	Looking for extra dimensions in the observed quasi-periodic oscillations of black holes. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 037.	5.4	10
15	Critical analysis of modulus stabilization in a higher dimensional F gravity. <i>Physical Review D</i> , 2021, 104, .	4.7	2
16	Does black hole continuum spectrum signal f gravity in higher dimensions?. <i>Physical Review D</i> , 2020, 101, .	4.7	13
17	Biohybrid electrodes for photoelectrochemical solar energy conversion. <i>Journal of Renewable and Sustainable Energy</i> , 2020, 12, 044701.	2.0	0
18	Imprints of the Janis-Newman-Winicour spacetime on observations related to shadow and accretion. <i>Physical Review D</i> , 2020, 102, .	4.7	19

#	ARTICLE	IF	CITATIONS
19	Dynamical modelling of disc vertical structure in superthin galaxy UGC 7321 in braneworld gravity: an MCMC study. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 5690-5701.	4.4	3
20	Photo-electrochemical Property of Microwave Synthesized Muga Silk Nanoparticles/ZnO/ITO/PET Structure. <i>IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India)</i> , 2020, , 1-7.	3.2	3
21	Implications of axionic hair on the shadow of M87*. <i>Physical Review D</i> , 2020, 101, .	4.7	13
22	Natural-dye-sensitized photoelectrochemical cells for solar energy conversion. <i>Nanomaterials and Energy</i> , 2020, 9, 215-226.	0.2	7
23	Basil sensitized ZnO photoelectrochemical cell for solar energy conversion. <i>Materials Today: Proceedings</i> , 2020, 32, 412-416.	1.8	4
24	Silhouette of M87*: A new window to peek into the world of hidden dimensions. <i>Physical Review D</i> , 2020, 101, .	4.7	127
25	Implications of Einstein-Maxwell dilaton axion gravity from the black hole continuum spectrum. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 500, 481-492.	4.4	7
26	Engineering of Gadolinium-Decorated Graphene Oxide Nanosheets for Multimodal Bioimaging and Drug Delivery. <i>ACS Omega</i> , 2019, 4, 12470-12479.	3.5	22
27	Effect of TiO ₂ and Fe doped TiO ₂ nanoparticles on mitochondrial membrane potential in HBL-100 cells. <i>Biointerphases</i> , 2019, 14, 041003.	1.6	14
28	Electron beam induced synthesis of Ru-rGO and its super capacitive behavior. <i>2D Materials</i> , 2019, 6, 045030.	4.4	10
29	Study of mitochondrial swelling, membrane fluidity and ROS production induced by nano-TiO ₂ and prevented by Fe incorporation. <i>Toxicology Research</i> , 2019, 8, 711-722.	2.1	16
30	Decoding signatures of extra dimensions and estimating spin of quasars from the continuum spectrum. <i>Physical Review D</i> , 2019, 100, .	4.7	24
31	Functionalized Graphene Nanocomposite in Gas Sensing. , 2019, , 295-322.		5
32	Nano-bio interface study between Fe content TiO ₂ nanoparticles and adenosine triphosphate biomolecules. <i>Surface and Interface Analysis</i> , 2019, 51, 894-905.	1.8	5
33	Synthesis of gadolinium oxide nanocuboids for <i>in vitro</i> bioimaging applications. <i>Materials Research Express</i> , 2019, 6, 1050c3.	1.6	2
34	Surface-Modified Lanthanide Nanomaterials for Drug Delivery. , 2019, , 431-449.		1
35	Radion induced inflation on nonflat brane and modulus stabilization. <i>Physical Review D</i> , 2019, 99, .	4.7	13
36	In quest of axionic hairs in quasars. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 039-039.	5.4	5

#	ARTICLE	IF	CITATIONS
37	Highly Active Dinuclear Titanium(IV) Complexes for the Catalytic Formation of a Carbon-Heteroatom Bond. <i>Inorganic Chemistry</i> , 2018, 57, 12610-12623.	4.0	31
38	Synthesis of Ni ₃ O ₄ nanosheet and its temperature-dependent supercapacitive behavior. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 475501.	2.8	24
39	Synthesis and dielectric characterisation of triiodide perovskite methylammonium lead iodide for energy applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 18693-18698.	2.2	2
40	Transposase-Mediated Chromosomal Integration of Exogenous Genes in <i>Acidithiobacillus ferrooxidans</i> . <i>Applied and Environmental Microbiology</i> , 2018, 84, .	3.1	24
41	Effect of plasma power on reduction of printable graphene oxide thin films on flexible substrates. <i>Materials Research Express</i> , 2018, 5, 056405.	1.6	10
42	Photocatalytic degradation of Rhodamine B dye using Fe doped TiO ₂ nanocomposites. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	6
43	Metals and minerals as a biotechnology feedstock: engineering biomining microbiology for bioenergy applications. <i>Current Opinion in Biotechnology</i> , 2017, 45, 144-155.	6.6	33
44	Graphene films printable on flexible substrates for sensor applications. <i>2D Materials</i> , 2017, 4, 015036.	4.4	21
45	Excavating black hole continuum spectrum: Possible signatures of scalar hairs and of higher dimensions. <i>Physical Review D</i> , 2017, 96, .	4.7	23
46	Modulus stabilization in a non-flat warped braneworld scenario. <i>European Physical Journal C</i> , 2017, 77, 1.	3.9	7
47	Paschen curve approach to investigate electron density and deposition rate of Cu in magnetron sputtering system. <i>Radiation Effects and Defects in Solids</i> , 2016, 171, 999-1005.	1.2	6
48	Printed graphene films with positive temperature coefficient of resistivity. <i>Materials Today: Proceedings</i> , 2016, 3, 4035-4039.	1.8	3
49	Zinc catalyzed Guanylation reaction of Amines with Carbodiimides/ Isocyanate leading to Guanidines/Urea derivatives formation. <i>Journal of Chemical Sciences</i> , 2016, 128, 875-881.	1.5	14
50	NUCLEOSYNTHESIS IN THE GAMMA-RAY BURST ACCRETION DISKS AND ASSOCIATED OUTFLOWS. , 2015, , .		0
51	Graphene oxide thin films for resistive memory switches. <i>IET Circuits, Devices and Systems</i> , 2015, 9, 428-433.	1.4	15
52	Plasma treated graphene oxide films: structural and electrical studies. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 4810-4815.	2.2	15
53	Bactericidal efficiency of nanostructured Al ₂ O ₃ /TiO ₂ composite thin films prepared by dual magnetron reactive co-sputtering technique. <i>Ceramics International</i> , 2014, 40, 4681-4690.	4.8	8
54	Establishing a Relation between the Mass and the Spin of Stellar-Mass Black Holes. <i>Physical Review Letters</i> , 2013, 111, 061101.	7.8	2

#	ARTICLE	IF	CITATIONS
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	Light-activated porphyrin-based formulations to inactivate bacterial spores. Journal of Applied Microbiology, 2012, 113, 1461-1467.	3.1	12
57	Understanding of gas phase deposition of reactive magnetron sputtered TiO ₂ thin films and its correlation with bactericidal efficiency. Applied Surface Science, 2012, 258, 9824-9831.	6.1	14
58	Light-activated nanotube-porphyrin conjugates as effective antiviral agents. Nanotechnology, 2012, 23, 105101.	2.6	66
59	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
60	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
61	Effect of ambient pressure on the crystalline phase of nano TiO ₂ particles synthesized by a dc thermal plasma reactor. Journal of Nanoparticle Research, 2010, 12, 581-590.	1.9	28
62	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
63	Study of bactericidal efficiency of magnetron sputtered TiO ₂ films deposited at varying oxygen partial pressure. Surface and Coatings Technology, 2010, 205, 1611-1617.	4.8	24
64	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
65	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
66	Photoactivated Antimicrobial Activity of Carbon Nanotube-Porphyrin Conjugates. Langmuir, 2010, 26, 17369-17374.	3.5	75
67	Effect of Ambient Pressure on the Axial Behavior of Ar-H_2 Transferred Thermal Arc-Plasma Column. IEEE Transactions on Plasma Science, 2010, 38, 982-989.	1.3	4
68	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
69	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
70	Growth of nano-particles of Al ₂ O ₃ , AlN and iron oxide with different crystalline phases in a thermal plasma reactor. Materials Research Bulletin, 2009, 44, 581-588.	5.2	23
71	Evidence of intrafamilial transmission of rotavirus in a birth cohort in South India. Journal of Medical Virology, 2008, 80, 1858-1863.	5.0	12
72	Mössbauer spectroscopic investigations of nanophase iron oxides synthesized by thermal plasma route. Materials Characterization, 2008, 59, 1215-1220.	4.4	41

#	ARTICLE	IF	CITATIONS
73	Adhesion induced mesoscale instability patterns in thin PDMS-metal bilayers. Journal of Chemical Physics, 2008, 128, 234708.	3.0	20
74	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
75	Contact instability of thin elastic films on patterned substrates. Journal of Chemical Physics, 2007, 127, 064703.	3.0	44
76	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
77	Modification of rotavirus multiplex RT-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
78	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
79	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
80	Preparation of Fe^{3+} - Fe_2O_3 nanoparticles using DC thermal arc-plasma route, their characterization and magnetic properties. Scripta Materialia, 2006, 54, 1235-1240.	5.2	56
81	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
82	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
83	Computation of emission characteristics of Ar^{+} - 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
84	DC thermal arc-plasma preparation of nanometric and stoichiometric spherical magnetite (Fe_3O_4) powders. Materials Letters, 2004, 58, 3958-3962.	2.6	52