

# Sudipta Das

## List of Publications by Year in descending order

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131  
papers

2,421  
citations

236612

25  
h-index

243296

44  
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132  
all docs

132  
docs citations

132  
times ranked

1934  
citing authors

#	ARTICLE	IF	CITATIONS
1	A naphthalene-based Al <sup>3+</sup> selective fluorescent sensor for living cell imaging. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 5523.	1.5	188
2	Fluorescent probes for selective determination of trace level Al <sup>3+</sup> : recent developments and future prospects. <i>Analytical Methods</i> , 2013, 5, 6262.	1.3	174
3	Brans-Dicke scalar field as a chameleon. <i>Physical Review D</i> , 2008, 78, .	1.6	115
4	A naphthalene exciplex based Al <sup>3+</sup> selective on-type fluorescent probe for living cells at the physiological pH range: experimental and computational studies. <i>Analyst</i> , The, 2012, 137, 2166.	1.7	107
5	Ratiometric fluorescence sensing and intracellular imaging of Al <sup>3+</sup> ions driven by an intramolecular excimer formation of a pyrimidine-pyrene scaffold. <i>Dalton Transactions</i> , 2013, 42, 4757.	1.6	95
6	A parametric reconstruction of the deceleration parameter. <i>European Physical Journal C</i> , 2017, 77, 1.	1.4	72
7	Acceleration of the universe with a simple trigonometric potential. <i>General Relativity and Gravitation</i> , 2005, 37, 1695-1703.	0.7	64
8	A divergence-free parametrization of deceleration parameter for scalar field dark energy. <i>International Journal of Modern Physics D</i> , 2016, 25, 1650032.	0.9	56
9	Curvature-driven acceleration: a utopia or a reality?. <i>Classical and Quantum Gravity</i> , 2006, 23, 4159-4165.	1.5	55
10	2-(2-Pyridyl) benzimidazole based Co(II) complex as an efficient fluorescent probe for trace level determination of aspartic and glutamic acid in aqueous solution: A displacement approach. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 7097.	1.5	48
11	Constraints on reconstructed dark energy model from SN Ia and BAO/CMB observations. <i>European Physical Journal C</i> , 2017, 77, 1.	1.4	46
12	Nanocellulose as sustainable biomaterials for drug delivery. <i>Sensors International</i> , 2022, 3, 100135.	4.9	46
13	Carbazole-corrole and carbazole-prophyrin dyads: synthesis, fluorescence and electrochemical studies. <i>New Journal of Chemistry</i> , 2015, 39, 482-491.	1.4	44
14	A compact UWB monopole patch antenna with reconfigurable Band-notched characteristics for Wi-MAX and WLAN applications. <i>AEU - International Journal of Electronics and Communications</i> , 2019, 105, 106-115.	1.7	41
15	An interacting scalar field and the recent cosmic acceleration. <i>General Relativity and Gravitation</i> , 2006, 38, 785-794.	0.7	39
16	Bridged bis-BODIPYs: their synthesis, structures and properties. <i>Dalton Transactions</i> , 2015, 44, 17209-17221.	1.6	39
17	Compact UWB flexible elliptical CPW-fed antenna with triple notch bands for wireless communications. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2020, 30, e22201.	0.8	38
18	Barrow holographic dark energy in a nonflat universe. <i>Physical Review D</i> , 2021, 104, .	1.6	36

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19	Naphthalene based highly selective OFF-ON type fluorescent probe for Al <sup>3+</sup> and NO <sup>2+</sup> ions for living cell imaging at physiological pH. <i>Inorganica Chimica Acta</i> , 2013, 398, 64-71.	1.2	34
20	Donor-acceptor type A <sub>2</sub> B <sub>2</sub> porphyrins: synthesis, energy transfer, computational and electrochemical studies. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 618-638.	3.0	33
21	Chameleon field and the late time acceleration of the Universe. <i>Pramana - Journal of Physics</i> , 2010, 74, 481-489.	0.9	32
22	Design and investigation of a multi-functional antenna with variable wideband/notched UWB behavior for WLAN/X-band/UWB and Ku-band applications. <i>AEU - International Journal of Electronics and Communications</i> , 2019, 111, 152895.	1.7	31
23	A naphthalene-thiophene hybrid molecule as a fluorescent AND logic gate with Zn <sup>2+</sup> and OAc <sup>-</sup> ions as inputs: cell imaging and computational studies. <i>Dalton Transactions</i> , 2013, 42, 6708.	1.6	30
24	Preclinical evaluation of antihyperglycemic activity of Clerodendron infortunatum leaf against streptozotocin-induced diabetic rats. <i>Diabetes Therapy</i> , 2011, 2, 92-100.	1.2	29
25	Cd(ii)-triggered excimer monomer conversion of a pyrene derivative: time dependent red-shift of monomer emission with cell staining application. <i>Analyst</i> , 2012, 137, 3910.	1.7	29
26	Design and realization of low profile dual-wideband monopole antenna incorporating a novel ohm (Î©) shaped DMS and semi-circular DGS for wireless applications. <i>AEU - International Journal of Electronics and Communications</i> , 2018, 97, 45-53.	1.7	29
27	Thermodynamics of a photon gas with an invariant energy scale. <i>Physical Review D</i> , 2010, 81, .	1.6	26
28	Analysis of a Miniaturized Multiresonant Wideband Slotted Microstrip Antenna With Modified Ground Plane. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2015, 14, 60-63.	2.4	25
29	Path integral for nonrelativistic generalized uncertainty principle corrected Hamiltonian. <i>Physical Review D</i> , 2012, 86, .	1.6	24
30	Cosmic acceleration in non-canonical scalar field model: an interacting scenario. <i>Astrophysics and Space Science</i> , 2015, 355, 371-380.	0.5	23
31	Quintessence or phantom: Study of scalar field dark energy models through a general parametrization of the Hubble parameter. <i>Physics of the Dark Universe</i> , 2022, 36, 101037.	1.8	23
32	Interaction of a naphthalene based fluorescent probe with Al <sup>3+</sup> : experimental and computational studies. <i>Analytical Methods</i> , 2012, 4, 3620.	1.3	22
33	A Generalized Closed Form Expression of Directivity of Arbitrary Planar Antenna Arrays. <i>IEEE Transactions on Antennas and Propagation</i> , 2013, 61, 3909-3911.	3.1	22
34	A LATE TIME ACCELERATION OF THE UNIVERSE WITH TWO SCALAR FIELDS: MANY POSSIBILITIES. <i>Modern Physics Letters A</i> , 2006, 21, 2663-2670.	0.5	21
35	Relativistic thermodynamics with an invariant energy scale. <i>Physical Review D</i> , 2009, 80, .	1.6	21
36	Thiophene anchored naphthalene derivative: Cr <sup>3+</sup> selective turn-on fluorescent probe for living cell imaging. <i>Analytical Methods</i> , 2012, 4, 2254.	1.3	21

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37	Non-commutative spacetime in very special relativity. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 3237-3242.	0.9	20
38	A unique benzimidazole-naphthalene hybrid molecule for independent detection of Zn <sup>2+</sup> and N <sup>3+</sup> ions: Experimental and theoretical investigations. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 209, 170-185.	2.0	20
39	Composition uniformity and large degree of strain relaxation in MBE-grown thick GeSn epitaxial layers, containing 16% Sn. Journal Physics D: Applied Physics, 2021, 54, 185105.	1.3	19
40	An Interacting Model of Dark Energy in Brans-Dicke Theory. Astrophysics and Space Science, 2014, 351, 651-660.	0.5	18
41	DESIGN AND ANALYSIS OF A COMPACT TRIPLE BAND SLOTTED MICROSTRIP ANTENNA WITH MODIFIED GROUND PLANE FOR WIRELESS COMMUNICATION APPLICATIONS. Progress in Electromagnetics Research B, 2014, 60, 215-225.	0.7	17
42	A new hybridized backtracking search optimization algorithm with differential evolution for sidelobe suppression of uniformly excited concentric circular antenna arrays. International Journal of RF and Microwave Computer-Aided Engineering, 2015, 25, 262-268.	0.8	17
43	Coplanar waveguide-based ultra-wide band antenna with switchable filtering of WiMAX 3.5GHz and WLAN 5GHz signals. Microwave and Optical Technology Letters, 2020, 62, 2398-2404.	0.9	17
44	Optimal sidelobe reduction of symmetric linear antenna array using Genetic Algorithm. , 2010, , .		16
45	Dislocation density and strain-relaxation in Ge <sub>1-x</sub> Sn <sub>x</sub> layers grown on Ge/Si (0 0 1) by low-temperature molecular beam epitaxy. Journal of Crystal Growth, 2017, 470, 135-142.	0.7	16
46	Design & analysis of a dual-band MIMO antenna to reduce the mutual coupling. Journal of Instrumentation, 2019, 14, P09023-P09023.	0.5	16
47	Empirical evidence of conditional asset pricing in the Indian stock market. Economic Systems, 2015, 39, 225-239.	1.0	15
48	Study of parametrized dark energy models with a general non-canonical scalar field. European Physical Journal C, 2016, 76, 1.	1.4	15
49	MODIFIED Î-SHAPED SLOT LOADED MULTIFREQUENCY MICROSTRIP ANTENNA. Progress in Electromagnetics Research B, 2015, 64, 103-117.	0.7	14
50	Study of non-canonical scalar field model using various parametrizations of dark energy equation of state. European Physical Journal C, 2015, 75, 1.	1.4	14
51	A new parametrization of dark energy equation of state leading to double exponential potential. Research in Astronomy and Astrophysics, 2018, 18, 131.	0.7	14
52	An INHIBIT logic gate from a thiophene derivative using iron and zinc ions as the input: tuning the efficiency on moving from naphthalene to anthracene to pyrene for the green luminescent detection of the intracellular iron. Dalton Transactions, 2013, 42, 16387.	1.6	12
53	Triphenylamine substituted dipyrinato metal complexes: Synthesis, optical and electrochemical studies. Inorganic Chemistry Communication, 2015, 60, 54-60.	1.8	11
54	DESIGN, FORMULATION AND EVALUATION OF LIPOSOME CONTAINING ISONIAZID. International Journal of Applied Pharmaceutics, 2018, 10, 52.	0.3	11

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55	Synthetic aspects of carbazole containing porphyrins and porphyrinoids. Journal of Porphyrins and Phthalocyanines, 2019, 23, 367-409.	0.4	11
56	DESIGN AND MANUFACTURING OF A NOVEL COMPACT 2.4 GHZ LPF USING A DGS-DMS COMBINATION AND QUASI OCTAGONAL RESONATORS FOR RADAR AND GPS APPLICATIONS. Progress in Electromagnetics Research C, 2019, 90, 15-28.	0.6	11
57	Linear antenna array synthesis using Novel Particle Swarm Optimization. , 2010, , .		10
58	Can Neutrino Viscosity Drive the Late Time Cosmic Acceleration?. International Journal of Theoretical Physics, 2012, 51, 2771-2778.	0.5	10
59	Design and analysis of a novel open ended T-shaped slot loaded compact multifrequency microstrip patch antenna. Microwave and Optical Technology Letters, 2014, 56, 316-322.	0.9	10
60	2-(2-Pyridyl) benzimidazole-based ternary Mn(ii) complex as an arsenate selective turn-on fluorescence probe: ppb level determination and cell imaging studies. New Journal of Chemistry, 2014, 38, 2744.	1.4	10
61	Time-varying industry beta in Indian stock market and forecasting errors. International Journal of Emerging Markets, 2015, 10, 521-534.	1.3	10
62	Size, value and momentum in stock returns: evidence from India. Macroeconomics and Finance in Emerging Market Economies, 2016, 9, 284-302.	0.5	10
63	A study of electrical characteristics of Gd <sub>2</sub> O <sub>3</sub> /GaN and Gd <sub>2</sub> O <sub>3</sub> /AlGaIn/GaN MOS Heterostructures. Microelectronic Engineering, 2019, 216, 111097.	1.1	10
64	Design and release kinetics of liposomes containing abiraterone acetate for treatment of prostate cancer. Sensors International, 2021, 2, 100077.	4.9	10
65	A Compact Wideband Monopole Antenna using Single Open Loop Resonator for Wireless Communication Applications. Telkomnika (Telecommunication Computing Electronics and Control), 2018, 16, 2023.	0.6	10
66	Non-minimal quintessence with nearly flat potential. Journal of Cosmology and Astroparticle Physics, 2009, 2009, 027-027.	1.9	9
67	pH dependent separation of uranium by chelation chromatography using pyridine 2,6-dimethanol as a chelator: Single crystal X-ray structural confirmation of the chelated uranium complex. Journal of Hazardous Materials, 2010, 181, 154-160.	6.5	9
68	GAUGE-INVARIANT EXTENSION OF LINEARIZED HORAUA GRAVITY. Modern Physics Letters A, 2011, 26, 2793-2801.	0.5	9
69	Generalized second law of thermodynamics for non-canonical scalar field model with corrected-entropy. European Physical Journal C, 2015, 75, 1.	1.4	9
70	Excimer laser annealing: An alternative route and its optimisation to effectively activate Si dopants in AlN films grown by plasma assisted molecular beam epitaxy. Materials Research Bulletin, 2018, 97, 300-305.	2.7	9
71	Molecular beam epitaxy and defect structure of Ge (111)/epi-Gd <sub>2</sub> O <sub>3</sub> (111)/Si (111) heterostructures. Journal of Applied Physics, 2018, 124, .	1.1	9
72	Epitaxial Gd <sub>2</sub> O <sub>3</sub> on strained Si <sub>1-x</sub> Ge <sub>x</sub> layers for next generation complementary metal oxide semiconductor device application. Applied Physics Letters, 2013, 103, 153501.	1.5	8

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73	A visible light excitable pyrene-naphthalene conjugate for ON fluorescence sensing of histidine in living cells. RSC Advances, 2014, 4, 7495.	1.7	8
74	Noncommutative extension of AdS-CFT and holographic superconductors. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 742, 266-273.	1.5	8
75	Self-Assembled Sn Nanocrystals as the Floating Gate of Nonvolatile Flash Memory. ACS Applied Electronic Materials, 2019, 1, 1852-1858.	2.0	8
76	Impact of Punch-through Stop Implants on Channel Doping and Junction Leakage for Ge $\mu$ -FinFET Applications. IEEE Transactions on Electron Devices, 2019, 66, 1635-1641.	1.6	8
77	Generalized particle dynamics: modifying the motion of particles and branes. Journal of High Energy Physics, 2009, 2009, 115-115.	1.6	7
78	Relativistic spinning particle in a noncommutative extended spacetime. Physical Review D, 2009, 80, .	1.6	7
79	Visible Light Excitable SCN <sup>2+</sup> Selective Fluorescence Probe Derived from Thiophene. Chinese Journal of Chemistry, 2015, 33, 1173-1177.	2.6	7
80	Generalization of Directivity Expressions for Antenna Arrays. IEEE Transactions on Antennas and Propagation, 2017, 65, 915-919.	3.1	7
81	Artificial Intelligence in Pharmacy. Indian Journal of Pharmaceutical Education and Research, 2021, 55, 304-318.	0.3	7
82	Optical solitons in saturable cubic-quintic nonlinear media with nonlinear dispersion. Optik, 2021, 247, 167865.	1.4	7
83	Difunctionalized N-Confused Porphyrins: Synthesis, Fluorescence, and Electrochemical Studies. Australian Journal of Chemistry, 2015, 68, 896.	0.5	6
84	DESIGN AND IN VITRO RELEASE KINETICS OF LIPOSOMAL FORMULATION OF ACYCLOVIR. International Journal of Applied Pharmaceutics, 0, , 61-65.	0.3	6
85	Closed Loop Resonator Based Compact UWB Antenna with Single Notched Band Varying between WLAN and X-band for UWB Applications. Frequenz, 2020, 74, 201-209.	0.6	6
86	The Time-Frequency Relationship between Oil Price, Stock Returns and Exchange Rate. Journal of Business Cycle Research, 2021, 17, 129-149.	0.3	6
87	GENERALIZED PARTICLE DYNAMICS IN ANTI-DE SITTER SPACES: A SOURCE FOR DARK ENERGY. International Journal of Modern Physics D, 2011, 20, 1235-1249.	0.9	5
88	Dynamical system analysis for steep potentials. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 024-024.	1.9	5
89	Dynamics of Compressed Optical Pulse in Cubic-quintic Media. Fiber and Integrated Optics, 2020, 39, 122-136.	1.7	5
90	Synthesis of broadside uniform circular antenna array with low on-surface scanning. , 2011, , .		4

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91	Solid phase pre-concentration of cobalt(II) using pyridine-thiocyanate reagents: X-ray crystal structure of the extracted ternary cobalt(II) complex. <i>Chemical Engineering Journal</i> , 2011, 174, 58-67.	6.6	4
92	Antitumour effect of <i>Diospyros cordifolia</i> bark on Ehrlich ascites carcinoma-bearing Swiss albino mice. <i>Natural Product Research</i> , 2012, 26, 1631-1633.	1.0	4

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109	Application of Differential Evolution with Best of Random Mutation Strategy on Asymmetric Location Only Synthesis of Broadside Circular Antenna Array. Lecture Notes in Computer Science, 2012, , 33-40.	1.0	2
110	Effects of a Maximal Energy Scale in Thermodynamics for Photon Gas and Construction of Path Integral. Symmetry, Integrability and Geometry: Methods and Applications (SIGMA), 0, , .	0.5	2
111	Low current tapered non-uniform linear array synthesis with decreasing sidelobe using NPSO. , 2011, , .		1
112	THIOCYANATE-ASSISTED SOLID PHASE ENRICHMENT OF Cu(II) USING PYRIDINE DERIVATIVE WITH X-RAY CRYSTALLOGRAPHIC EVIDENCE. Chemical Engineering Communications, 2013, 200, 638-654.	1.5	1
113	Analgesic Activity of Methanolic Extract of Tubers of Arisaema tortuosum (Wall.) Schott. in Swiss Albino Mice. Dhaka University Journal of Pharmaceutical Sciences, 2018, 17, 37-41.	0.1	1
114	FORMULATION AND EVALUATION OF METRONIDAZOLE TABLETS USING NATURAL GUM. Asian Journal of Pharmaceutical and Clinical Research, 2019, , 304-306.	0.3	1
115	Design of a high gain 2*1 patch array for fifth generation wireless applications. , 2019, , .		1
116	TRIVALENT ION CROSS-LINKED AND ACETALATED GELLAN GUM MICROSPHERES OF GLIMEPIRIDE. Asian Journal of Pharmaceutical and Clinical Research, 2020, , 66-68.	0.3	1
117	Growth of perturbations using Lambert W equation of state. International Journal of Geometric Methods in Modern Physics, 2021, 18, 2150139.	0.8	1
118	Element Spacing Optimization of Low Sidelobe Concentric Hexagonal Antenna Arrays Using MOEA/D. Advances in Intelligent Systems and Computing, 2015, , 189-196.	0.5	1
119	Multilayer Structure of a New Portable, Low-Cost and Reversible Arithmetic and Logic Unit using High-Speed and Low-Power QCA Technology with Good-Scalability.. International Journal of Recent Technology and Engineering, 2019, 8, 10568-10575.	0.2	1
120	Spectral discontinuities in constrained dynamical models. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 345401.	0.7	0
121	Performance of Linear Arrays with Travelling Wave Current Distribution. , 2011, , .		0
122	Synthesis of circular antenna arrays for reduction of side lobe and first null beamwidth using PSOIIW. , 2013, , .		0
123	Performance Comparison of Two Recently Proposed Adaptive Differential Evolution Algorithms on Space Only Low Sidelobe Synthesis Problem of Concentric Regular Hexagonal Antenna Arrays. Procedia Computer Science, 2015, 45, 635-643.	1.2	0
124	Multiobjective space-only synthesis of concentric regular hexagonal antenna arrays. , 2015, , .		0
125	Asset Pricing Test Using Alternative Sets of Portfolios: Evidence from India. Asia-Pacific Financial Markets, 2019, 26, 339-354.	1.3	0
126	SOFTWARE RELIABILITY BASED ON RENEWAL PROCESS MODELING FOR ERROR OCCURRENCE DUE TO EACH BUG WITH PERIODIC DEBUGGING SCHEDULE. Probability in the Engineering and Informational Sciences, 2022, 36, 87-104.	0.6	0



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127	A NON-MINIMAL QUINTESSENCE MODEL OF DARK ENERGY. , 2012, , .		0
128	Compact Modified Ground Plane (MGP) Microstrip Antenna with Narrowband and Wideband Resonance Characteristics. International Journal of Signal Processing, Image Processing and Pattern Recognition, 2017, 10, 13-36.	0.2	0
129	A Compact Dual Band Printed Monopole Antenna. International Journal of Future Generation Communication and Networking, 2017, 10, 85-98.	0.7	0
130	Analysis of a Notch Loaded Miniaturized Multifrequency Microstrip Patch Antenna. International Journal of Signal Processing, Image Processing and Pattern Recognition, 2017, 10, 75-88.	0.2	0
131	Isolation and Characterization of Bioactive Anti-inflammatory Flavonoids from Arisaema tortuosum Tubers. Asian Journal of Chemistry, 2020, 32, 3093-3096.	0.1	0