

# Sudipta Das

## List of Publications by Year in descending order

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131  
papers

2,421  
citations

236612

25  
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243296

44  
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132  
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132  
docs citations

132  
times ranked

1934  
citing authors

#	ARTICLE	IF	CITATIONS
1	SOFTWARE RELIABILITY BASED ON RENEWAL PROCESS MODELING FOR ERROR OCCURRENCE DUE TO EACH BUG WITH PERIODIC DEBUGGING SCHEDULE. <i>Probability in the Engineering and Informational Sciences</i> , 2022, 36, 87-104.	0.6	0
2	Nanocellulose as sustainable biomaterials for drug delivery. <i>Sensors International</i> , 2022, 3, 100135.	4.9	46
3	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
4	Design and release kinetics of liposomes containing abiraterone acetate for treatment of prostate cancer. <i>Sensors International</i> , 2021, 2, 100077.	4.9	10
5	Composition uniformity and large degree of strain relaxation in MBE-grown thick GeSn epitaxial layers, containing 16% Sn. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 185105.	1.3	19
6	Artificial Intelligence in Pharmacy. <i>Indian Journal of Pharmaceutical Education and Research</i> , 2021, 55, 304-318.	0.3	7
7	Growth of perturbations using Lambert W equation of state. <i>International Journal of Geometric Methods in Modern Physics</i> , 2021, 18, 2150139.	0.8	1
8	The Time-Frequency Relationship between Oil Price, Stock Returns and Exchange Rate. <i>Journal of Business Cycle Research</i> , 2021, 17, 129-149.	0.3	6
9	Optical solitons in saturable cubic-quintic nonlinear media with nonlinear dispersion. <i>Optik</i> , 2021, 247, 167865.	1.4	7
10	Barrow holographic dark energy in a nonflat universe. <i>Physical Review D</i> , 2021, 104, .	1.6	36
11	TRIVALENT ION CROSS-LINKED AND ACETALATED GELLAN GUM MICROSPHERES OF GLIMEPIRIDE. <i>Asian Journal of Pharmaceutical and Clinical Research</i> , 2020, , 66-68.	0.3	1
12	Dynamics of Compressed Optical Pulse in Cubic-quintic Media. <i>Fiber and Integrated Optics</i> , 2020, 39, 122-136.	1.7	5
13	Closed Loop Resonator Based Compact UWB Antenna with Single Notched Band Varying between WLAN and X-band for UWB Applications. <i>Frequenz</i> , 2020, 74, 201-209.	0.6	6
14	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
15	Coplanar waveguide-based ultra-wide band antenna with switchable filtering of WiMAX 3.5GHz and WLAN 5GHz signals. <i>Microwave and Optical Technology Letters</i> , 2020, 62, 2398-2404.	0.9	17
16	Isolation and Characterization of Bioactive Anti-inflammatory Flavonoids from <i>Arisaema tortuosum</i> Tubers. <i>Asian Journal of Chemistry</i> , 2020, 32, 3093-3096.	0.1	0
17	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. <i>Microelectronic Engineering</i> , 2019, 216, 111097.	1.1	10
18	Dynamical system analysis for steep potentials. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 024-024.	1.9	5

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19	Design & analysis of a dual-band MIMO antenna to reduce the mutual coupling. Journal of Instrumentation, 2019, 14, P09023-P09023.	0.5	16
20	Self-Assembled Sn Nanocrystals as the Floating Gate of Nonvolatile Flash Memory. ACS Applied Electronic Materials, 2019, 1, 1852-1858.	2.0	8
21	Design and investigation of a multi-functional antenna with variable wideband/notched UWB behavior for WLAN/X-band/UWB and Ku-band applications. AEU - International Journal of Electronics and Communications, 2019, 111, 152895.	1.7	31
22	On the information entropy of matter-waves in quasi-periodic lattice potentials. European Physical Journal D, 2019, 73, 1.	0.6	4
23	Synthetic aspects of carbazole containing porphyrins and porphyrinoids. Journal of Porphyrins and Phthalocyanines, 2019, 23, 367-409.	0.4	11
24	A compact UWB monopole patch antenna with reconfigurable Band-notched characteristics for Wi-MAX and WLAN applications. AEU - International Journal of Electronics and Communications, 2019, 105, 106-115.	1.7	41
25	Impact of Punch-through Stop Implants on Channel Doping and Junction Leakage for Ge & FinFET Applications. IEEE Transactions on Electron Devices, 2019, 66, 1635-1641.	1.6	8
26	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
27	FORMULATION AND EVALUATION OF METRONIDAZOLE TABLETS USING NATURAL GUM. Asian Journal of Pharmaceutical and Clinical Research, 2019, , 304-306.	0.3	1
28	Design of a high gain 2*1 patch array for fifth generation wireless applications. , 2019, , .		1
29	Asset Pricing Test Using Alternative Sets of Portfolios: Evidence from India. Asia-Pacific Financial Markets, 2019, 26, 339-354.	1.3	0
30	Exploring aggregation-induced emission through tuning of ligand structure for picomolar detection of pyrene. Journal of Molecular Recognition, 2019, 32, e2771.	1.1	3
31	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
32	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
33	Evolutionary algorithms based synthesis of low sidelobe hexagonal arrays. Swarm and Evolutionary Computation, 2018, 38, 139-157.	4.5	2
34	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
35	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
36	DESIGN, FORMULATION AND EVALUATION OF LIPOSOME CONTAINING ISONIAZID. International Journal of Applied Pharmaceutics, 2018, 10, 52.	0.3	11

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37	Dispersion Characterization of a UWB Vivaldi Antenna in Time and Frequency Domain. , 2018, , .		4
38	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
39	Design and realization of low profile dual-wideband monopole antenna incorporating a novel ohm (Î©) shaped DMS and semi-circular DGS for wireless applications. AEU - International Journal of Electronics and Communications, 2018, 97, 45-53.	1.7	29
40	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
41	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
42	Donor-acceptor type A <sub>2</sub> B <sub>2</sub> porphyrins: synthesis, energy transfer, computational and electrochemical studies. Inorganic Chemistry Frontiers, 2017, 4, 618-638.	3.0	33
43	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
44	On the correlation of growth, structural and electrical properties of epitaxial Ge grown on Si by solid source molecular beam epitaxy. Current Applied Physics, 2017, 17, 327-332.	1.1	4
45	Constraints on reconstructed dark energy model from SN Ia and BAO/CMB observations. European Physical Journal C, 2017, 77, 1.	1.4	46
46	Generalization of Directivity Expressions for Antenna Arrays. IEEE Transactions on Antennas and Propagation, 2017, 65, 915-919.	3.1	7
47	A parametric reconstruction of the deceleration parameter. European Physical Journal C, 2017, 77, 1.	1.4	72
48	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
49	A Compact Dual Band Printed Monopole Antenna. International Journal of Future Generation Communication and Networking, 2017, 10, 85-98.	0.7	0
50	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
51	IN VITRO HYPOGLYCEMIC AND ANTIMICROBIAL ACTIVITY OF CUCUMIS CALLOSUS (ROTTL.) COGN. FRUIT. Asian Journal of Pharmaceutical and Clinical Research, 2016, , 77.	0.3	2
52	Study of parametrized dark energy models with a general non-canonical scalar field. European Physical Journal C, 2016, 76, 1.	1.4	15
53	Size, value and momentum in stock returns: evidence from India. Macroeconomics and Finance in Emerging Market Economies, 2016, 9, 284-302.	0.5	10
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55	A divergence-free parametrization of deceleration parameter for scalar field dark energy. International Journal of Modern Physics D, 2016, 25, 1650032.	0.9	56
56	Generalized second law of thermodynamics for non-canonical scalar field model with corrected-entropy. European Physical Journal C, 2015, 75, 1.	1.4	9
57	Visible Light Excitable SCN <sup>+</sup> Selective Fluorescence Probe Derived from Thiophene. Chinese Journal of Chemistry, 2015, 33, 1173-1177.	2.6	7
58	MODIFIED Î-SHAPED SLOT LOADED MULTIFREQUENCY MICROSTRIP ANTENNA. Progress in Electromagnetics Research B, 2015, 64, 103-117.	0.7	14
59	Optimization of Antenna Arrays for SLL Reduction Towards Pareto Objectivity Using GA Variants. , 2015, , .		2
60	Time-varying industry beta in Indian stock market and forecasting errors. International Journal of Emerging Markets, 2015, 10, 521-534.	1.3	10
61	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
62	Analysis of a Miniaturized Multiresonant Wideband Slotted Microstrip Antenna With Modified Ground Plane. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 60-63.	2.4	25
63	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
64	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
65	Empirical evidence of conditional asset pricing in the Indian stock market. Economic Systems, 2015, 39, 225-239.	1.0	15
66	Impact of GaN buffer layer thickness on structural and optical properties of AlGaIn/GaN based high electron mobility transistor structure grown on Si(111) substrate by plasma assisted molecular beam epitaxy technique. , 2015, , .		2
67	Triphenylamine substituted dipyrinato metal complexes: Synthesis, optical and electrochemical studies. Inorganic Chemistry Communication, 2015, 60, 54-60.	1.8	11
68	Bridged bis-BODIPYs: their synthesis, structures and properties. Dalton Transactions, 2015, 44, 17209-17221.	1.6	39
69	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
70	Multiobjective space-only synthesis of concentric regular hexagonal antenna arrays. , 2015, , .		0
71	Cosmic acceleration in non-canonical scalar field model: an interacting scenario. Astrophysics and Space Science, 2015, 355, 371-380.	0.5	23
72	Difunctionalized N-Confused Porphyrins: Synthesis, Fluorescence, and Electrochemical Studies. Australian Journal of Chemistry, 2015, 68, 896.	0.5	6

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73	Carbazole- <i>corrole</i> and carbazole- <i>prophyrin</i> dyads: synthesis, fluorescence and electrochemical studies. <i>New Journal of Chemistry</i> , 2015, 39, 482-491.	1.4	44
74	Element Spacing Optimization of Low Sidelobe Concentric Hexagonal Antenna Arrays Using MOEA/D. <i>Advances in Intelligent Systems and Computing</i> , 2015, , 189-196.	0.5	1
75	DESIGN AND ANALYSIS OF A COMPACT TRIPLE BAND SLOTTED MICROSTRIP ANTENNA WITH MODIFIED GROUND PLANE FOR WIRELESS COMMUNICATION APPLICATIONS. <i>Progress in Electromagnetics Research B</i> , 2014, 60, 215-225.	0.7	17
76	pH-controlled solid-phase enrichment of Mn(II): confirmation of the structure of the extracted ternary Mn(II) complex by single crystal X-ray structure analysis. <i>Desalination and Water Treatment</i> , 2014, 52, 6069-6078.	1.0	2
77	Design and analysis of a novel open ended T-shaped slot loaded compact multifrequency microstrip patch antenna. <i>Microwave and Optical Technology Letters</i> , 2014, 56, 316-322.	0.9	10
78	An Interacting Model of Dark Energy in Brans-Dicke Theory. <i>Astrophysics and Space Science</i> , 2014, 351, 651-660.	0.5	18
79	2-(2-Pyridyl) benzimidazole-based ternary Mn(ii) complex as an arsenate selective turn-on fluorescence probe: ppb level determination and cell imaging studies. <i>New Journal of Chemistry</i> , 2014, 38, 2744.	1.4	10
80	A visible light excitable pyrene-naphthalene conjugate for ON fluorescence sensing of histidine in living cells. <i>RSC Advances</i> , 2014, 4, 7495.	1.7	8
81	Interference suppression of linear antenna arrays with combined Backtracking Search Algorithm and Differential Evolution. , 2014, , .		3
82	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
83	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. <i>Dalton Transactions</i> , 2013, 42, 16387.	1.6	12
84	Naphthalene based highly selective OFF-ON type fluorescent probe for Al <sup>3+</sup> and NO <sub>2</sub> <sup>-</sup> ions for living cell imaging at physiological pH. <i>Inorganica Chimica Acta</i> , 2013, 398, 64-71.	1.2	34
85	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
86	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
87	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
88	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. <i>Applied Physics Letters</i> , 2013, 103, 153501.	1.5	8
89	A generalized expression of directivity for planar antenna arrays. , 2013, , .		3
90	Synthesis of circular antenna arrays for reduction of side lobe and first null beamwidth using PSOIIW. , 2013, , .		0

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91	Self Adaptive Differential Evolution based thinning of concentric circular antenna arrays. , 2013, , .		3
92	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
93	Antitumour effect of <i>Diospyros cordifoliabark</i> on Ehrlich ascites carcinoma-bearing Swiss albino mice. Natural Product Research, 2012, 26, 1631-1633.	1.0	4
94	Interaction of a naphthalene based fluorescent probe with Al <sup>3+</sup> : experimental and computational studies. Analytical Methods, 2012, 4, 3620.	1.3	22
95	Path integral for nonrelativistic generalized uncertainty principle corrected Hamiltonian. Physical Review D, 2012, 86, .	1.6	24
96	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. Analyst, The, 2012, 137, 2166.	1.7	107
97	Cd(ii)-triggered excimerâ€“monomer conversion of a pyrene derivative: time dependent red-shift of monomer emission with cell staining application. Analyst, The, 2012, 137, 3910.	1.7	29
98	Thiophene anchored naphthalene derivative: Cr <sup>3+</sup> selective turn-on fluorescent probe for living cell imaging. Analytical Methods, 2012, 4, 2254.	1.3	21
99	Can Neutrino Viscosity Drive the Late Time Cosmic Acceleration?. International Journal of Theoretical Physics, 2012, 51, 2771-2778.	0.5	10
100	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
101	A NON-MINIMAL QUINTESSENCE MODEL OF DARK ENERGY. , 2012, , .		0
102	Performance of Linear Arrays with Travelling Wave Current Distribution. , 2011, , .		0
103	Synthesis of broadside uniform circular antenna array with low on-surface scanning. , 2011, , .		4
104	Low current tapered non-uniform linear array synthesis with decreasing sidelobe using NPSO. , 2011, , .		1
105	Solid phase pre-concentration of cobalt(II) using pyridineâ€“thiocyanate reagents: X-ray crystal structure of the extracted ternary cobalt(II) complex. Chemical Engineering Journal, 2011, 174, 58-67.	6.6	4
106	A naphthalene-based Al <sup>3+</sup> selective fluorescent sensor for living cell imaging. Organic and Biomolecular Chemistry, 2011, 9, 5523.	1.5	188
107	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. Organic and Biomolecular Chemistry, 2011, 9, 7097.	1.5	48
108	Non-commutative spacetime in very special relativity. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 3237-3242.	0.9	20

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109	Preclinical evaluation of antihyperglycemic activity of Clerodendron infortunatum leaf against streptozotocin-induced diabetic rats. Diabetes Therapy, 2011, 2, 92-100.	1.2	29
110	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
111	GAUGE-INVARIANT EXTENSION OF LINEARIZED HORAVA GRAVITY. Modern Physics Letters A, 2011, 26, 2793-2801.	0.5	9
112	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
113	Chameleon field and the late time acceleration of the Universe. Pramana - Journal of Physics, 2010, 74, 481-489.	0.9	32
114	Optimal angular locations of elements for asymmetric circular array antennas. , 2010, , .		3
115	Optimal sidelobe reduction of symmetric linear antenna array using Genetic Algorithm. , 2010, , .		16
116	Thermodynamics of a photon gas with an invariant energy scale. Physical Review D, 2010, 81, .	1.6	26
117	Linear antenna array synthesis using Novel Particle Swarm Optimization. , 2010, , .		10
118	Non-minimal quintessence with nearly flat potential. Journal of Cosmology and Astroparticle Physics, 2009, 2009, 027-027.	1.9	9
119	Generalized particle dynamics: modifying the motion of particles and branes. Journal of High Energy Physics, 2009, 2009, 115-115.	1.6	7
120	Spectral discontinuities in constrained dynamical models. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 345401.	0.7	0
121	Relativistic spinning particle in a noncommutative extended spacetime. Physical Review D, 2009, 80, .	1.6	7
122	Relativistic thermodynamics with an invariant energy scale. Physical Review D, 2009, 80, .	1.6	21
123	Brans-Dicke scalar field as a chameleon. Physical Review D, 2008, 78, .	1.6	115
124	An interacting scalar field and the recent cosmic acceleration. General Relativity and Gravitation, 2006, 38, 785-794.	0.7	39
125	Spintessence: A Possible Candidate as a Driver of the Late Time Cosmic Acceleration. Astrophysics and Space Science, 2006, 305, 25-27.	0.5	3
126	Curvature-driven acceleration: a utopia or a reality?. Classical and Quantum Gravity, 2006, 23, 4159-4165.	1.5	55



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127	A LATE TIME ACCELERATION OF THE UNIVERSE WITH TWO SCALAR FIELDS: MANY POSSIBILITIES. Modern Physics Letters A, 2006, 21, 2663-2670.	0.5	21
128	Acceleration of the universe with a simple trigonometric potential. General Relativity and Gravitation, 2005, 37, 1695-1703.	0.7	64
129	DESIGN AND IN VITRO RELEASE KINETICS OF LIPOSOMAL FORMULATION OF ACYCLOVIR. International Journal of Applied Pharmaceutics, 0, , 61-65.	0.3	6
130	DESIGN, FORMULATION, AND EVALUATION OF SOLID DISPERSION TABLETS OF POORLY WATER-SOLUBLE ANTIDIABETIC DRUG USING NATURAL POLYMER. Asian Journal of Pharmaceutical and Clinical Research, 0, , 195-197.	0.3	2
131	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