Saibal Ray

List of Publications by Year in Descending Order

156 papers	4,236 citations	38 h-index	59 g-index
166 ext. papers	5,142 ext. citations	2.8 avg, IF	6 L-index

#	Paper	IF	Citations
156	A Relativistic Compact Stellar Model of Anisotropic Quark Matter Mixed with Dark Energy. *Advances in High Energy Physics*, **2021**, 2021, 1-7	1	0
155	N.R. Sen: Father of Indian Applied mathematics. *European Physical Journal H*, **2021**, 46, 1	0.9	0
154	A semi-classical model of regular inflationary cosmology. *Physics of the Dark Universe*, **2021**, 32, 100823	4.4	
153	Anisotropic charged strange stars in Krori-Barua spacetime under f(R,T) gravity. *Annals of Physics*, **2021**, 428, 168429	2.5	3
152	Wormhole solutions in f(R) gravity. *International Journal of Modern Physics D*, **2021**, 30, 2150061	2.2	2
151	Noncommutative black hole in the Finslerian spacetime. *Classical and Quantum Gravity*, **2021**, 38, 145019	3.3	0
150	Bouncing universe models in an extended gravity theory. *Chinese Journal of Physics*, **2021**, 71, 610-622	3.5	6
149	Anisotropic stars in Brans-Dicke gravity. *Chinese Journal of Physics*, **2021**, 71, 548-560	3.5	7
148	Analytic radiation model for perfect fluid under homotopy perturbation method. *Indian Journal of Physics*, **2021**, 95, 1581-1588	1.4	1
147	Decoupling gravitational sources in f(R,T) gravity under class I spacetime. *Physics of the Dark Universe*, **2021**, 31, 100753	4.4	24
146	Dilaton-Axion Black Hole under the Solar System Tests. *New Astronomy*, **2021**, 83, 101494	1.8	0
145	Quality Disclosure Strategy under Customer Learning Opportunities. *Production and Operations Management*, **2021**, 30, 1136-1153	3.6	3
144	Non-isothermal decomposition kinetics of nano-scale CaCO3 as a function of particle size variation. *Ceramics International*, **2021**, 47, 858-864	5.1	2
143	Charged strange stellar model describing by Tolman V metric. *Results in Physics*, **2021**, 20, 103648	3.7	9
142	Role of Anisotropy on the Tidal Deformability of Compact Stellar Objects. *Physical Sciences Forum*, **2021**, 2, 29		0
141	Anisotropic compact stars: Constraining model parameters to account for physical features of tidal Love numbers. *Annals of Physics*, **2021**, 433, 168597	2.5	2
140	Cosmological models with variable anisotropic parameter in f(R, T) gravity. *Indian Journal of Physics*, **2020**, 95, 2245	1.4	2

139	Study of gravastars under f(T) gravity. *Nuclear Physics B*, **2020**, 954, 114986	2.8	11
138	Weyl transformation: A dynamical degree of freedom in the light of Dirac Large Number hypothesis. *International Journal of Modern Physics D*, **2020**, 29, 2050027	2.2	0
137	Gravastars in f(?,?) gravity. *International Journal of Modern Physics A*, **2020**, 35, 2050017	1.2	15
136	Gravastar: An alternative to black hole. *International Journal of Modern Physics D*, **2020**, 29, 2030004	2.2	14
135	Gravastar in the framework of braneworld gravity. *Physical Review D*, **2020**, 102,	4.9	10
134	Anisotropic strange star with Tolman Kuchowicz metric under f(R, T) gravity. *European Physical Journal C*, **2020**, 80, 1	4.2	28
133	Nonsingular solution with anisotropic fluid in mini bang cosmology. *International Journal of Modern Physics D*, **2020**, 29, 2050118	2.2	0
132	Anisotropic strange star inspired by Finsler geometry. *International Journal of Modern Physics D*, **2020**, 29, 2050001	2.2	3
131	Study on Anisotropic Strange Stars in f (T , T) Gravity. *Universe*, **2020**, 6, 167	2.5	7
130	Revisiting Primordial Black Hole Evolution. *Axioms*, **2020**, 9, 71	1.6	0
129	Cosmological models with squared trace in modified gravity. *International Journal of Modern Physics D*, **2020**, 29, 2050100	2.2	3
128	Charged perfect fluid sphere in higher-dimensional spacetime. *Indian Journal of Physics*, **2020**, 94, 1679-1690	1.4	0
127	Inflation in anisotropic brane universe using tachyon field. *International Journal of Modern Physics D* , **2019**, 28, 1941010	2.2	4
126	Classical and Quantum Approaches to Black Holes. *Advances in High Energy Physics*, **2019**, 2019, 1-4	1	
125	A study of anisotropic compact stars based on embedding class 1 condition. *International Journal of Modern Physics D*, **2019**, 28, 1950116	2.2	9
124	Constraining values of bag constant for strange star candidates. *International Journal of Modern Physics D*, **2019**, 28, 1941006	2.2	25
123	Exploring physical features of anisotropic strange stars beyond standard maximum mass limit in $fleft(R,mathcal {T}right)$ gravity. *Monthly Notices of the Royal Astronomical Society*, **2019**, 485, 5652-5665	4.3	68
122	Study of charged compact stars with class 1 metric under general relativity. *Canadian Journal of Physics*, **2019**, 97, 1323-1331	1.1	3

121	Dirac's large number hypothesis: A journey from concept to implication. *International Journal of Modern Physics D*, **2019**, 28, 1930014	2.2	5
120	Neutron star under homotopy perturbation method. *Annals of Physics*, **2019**, 409, 167918	2.5	2
119	Charged anisotropic strange stars in Finslerian geometry. *European Physical Journal C*, **2019**, 79, 1	4.2	7
118	Relativistic strange stars in TolmanKuchowicz spacetime. *Annals of Physics*, **2019**, 409, 167905	2.5	14
117	Gravastars with Kuchowicz metric potential. *Results in Physics*, **2019**, 14, 102473	3.7	4
116	Gravastars in (3+1) dimensions admitting Karmarkar condition. *Annals of Physics*, **2019**, 411, 167968	2.5	12
115	Study on charged strange stars in f(R, T) gravity. *Journal of Cosmology and Astroparticle Physics*, **2019**, 2019, 070-070	6.4	23
114	Strange stars in KoriBarua spacetime underf(R,T)gravity. *Annals of Physics*, **2019**, 401, 1-20	2.5	25
113	A study on charged compact stars. *International Journal of Modern Physics D*, **2019**, 28, 1950053	2.2	5
112	Anisotropic strange stars under simplest minimal matter-geometry coupling in the f (R,T) gravity. *Physical Review D*, **2018**, 97,	4.9	51
111	Anisotropic strange star with Tolman V potential. *International Journal of Modern Physics D*, **2018**, 27, 1850089	2.2	5
110	Strange stars inf(R,?) gravity. *Journal of Cosmology and Astroparticle Physics*, **2018**, 2018, 044-044	6.4	57
109	Anisotropic strange stars in TolmanKuchowicz spacetime. *European Physical Journal C*, **2018**, 78, 1	4.2	42
108	A new model for strange stars. *General Relativity and Gravitation*, **2018**, 50, 1	2.3	23
107	Anisotropic strange stars in the EinsteinMaxwell spacetime. *European Physical Journal C*, **2018**, 78, 1	4.2	34
106	Solar system tests in constraining parameters of dyon black holes. *European Physical Journal C*, **2018**, 78, 1	4.2	3
105	Gravastars with higher dimensional spacetimes. *Annals of Physics*, **2018**, 394, 230-243	2.5	19
104	A generalized family of anisotropic compact object in general relativity. *Annals of Physics*, **2018**, 395, 152-169	2.5	9

103	A Model for Anisotropic Strange Stars. *Springer Proceedings in Physics*, **2018**, 65-68	0.2	
102	Joint procurement and demand-side bidding strategies under price volatility. *Annals of Operations Research*, **2017**, 257, 121-165	3.2	6
101	Charged gravastars in higher dimensions. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2017**, 767, 380-385	4.2	33
100	Relativistic model for anisotropic strange stars. *Annals of Physics*, **2017**, 387, 239-252	2.5	79
99	Gravastars in f(R,T) gravity. *Physical Review D*, **2017**, 95,	4.9	69
98	A new model for spherically symmetric charged compact stars of embedding class 1. *European Physical Journal C*, **2017**, 77, 1	4.2	47
97	All spherically symmetric charged anisotropic solutions for compact stars. *European Physical Journal C*, **2017**, 77, 1	4.2	47
96	Compact star in pseudo-spheroidal spacetime. *Astrophysics and Space Science*, **2017**, 362, 1	1.6	5
95	Generalised model for anisotropic compact stars. *European Physical Journal C*, **2016**, 76, 1	4.2	83
94	A generalized model for compact stars. *European Physical Journal C*, **2016**, 76, 1	4.2	14
93	About Influence of Gravity on Heat Conductivity Process of the Planets. *International Journal of Theoretical Physics*, **2016**, 55, 1536-1542	1.1	
92	A new model for spherically symmetric anisotropic compact star. *European Physical Journal C*, **2016**, 76, 1	4.2	88
91	A Dark Energy Model in Kaluza-Klein Cosmology. *International Journal of Theoretical Physics*, **2016**, 55, 388-395	1.1	3
90	Could wormholes form in dark matter galactic halos?. *Astrophysics and Space Science*, **2016**, 361, 1	1.6	14
89	Group Selling, Product Durability, and Consumer Behavior. *Production and Operations Management*, **2016**, 25, 1942-1957	3.6	10
88	Compact stars in (f(R,mathcal {T})) gravity. *European Physical Journal C*, **2016**, 76, 1	4.2	95
87	C-field cosmological models: revisited. *Research in Astronomy and Astrophysics*, **2016**, 16, 188	1.5	2
86	The Finslerian wormhole models. *European Physical Journal C*, **2016**, 76, 1	4.2	24

85	Anisotropic stars with non-static conformal symmetry. *Astrophysics and Space Science*, **2016**, 361, 1	1.6	41
84	Relativistic electromagnetic mass models in spherically symmetric spacetime. *Astrophysics and Space Science*, **2016**, 361, 1	1.6	26
83	Relativistic compact stars in (f(T)) gravity admitting conformal motion. *Astrophysics and Space Science*, **2015**, 358, 1	1.6	32
82	Wormhole inspired by non-commutative geometry. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2015**, 746, 73-78	4.2	33
81	Noncommutative Geometry Inspired Wormholes With Conformal Motion. *International Journal of Theoretical Physics*, **2015**, 54, 699-709	1.1	22
80	Fluid sphere: Stability problem and dimensional constraint. *International Journal of Modern Physics D*, **2015**, 24, 1550049	2.2	8
79	Anisotropic models for compact stars. *European Physical Journal C*, **2015**, 75, 1	4.2	103
78	The Higher Dimensional Gravastars. *International Journal of Theoretical Physics*, **2015**, 54, 50-61	1.1	22
77	Possibility of higher-dimensional anisotropic compact star. *European Physical Journal C*, **2015**, 75, 1	4.2	45
76	Spherically symmetric charged compact stars. *European Physical Journal C*, **2015**, 75, 1	4.2	81
75	The Finslerian compact star model. *European Physical Journal C*, **2015**, 75, 1	4.2	16
74	Possible existence of wormholes in the galactic halo region. *European Physical Journal C*, **2014**, 74, 1	4.2	62
73	Possible existence of wormholes in the central regions of halos. *Annals of Physics*, **2014**, 350, 561-567	2.5	28
72	Astronomer R.G. Chandra: In the Light of His Anglo-American Connection. *European Physical Journal H*, **2014**, 39, 369-387	0.9	
71	Possible features of galactic halo with electric field and observational constraints. *General Relativity and Gravitation*, **2014**, 46, 1	2.3	7
70	Static charged fluid in (2 + 1)-dimensions admitting conformal Killing vectors. *International Journal of Modern Physics D*, **2014**, 23, 1450042	2.2	12
69	Scenario of Accelerating Universe: Role of Phenomenological Models. *International Journal of Theoretical Physics*, **2013**, 52, 4524-4536	1.1	4
68	BTZ black holes inspired by noncommutative geometry. *Physical Review D*, **2013**, 87,	4.9	31

67	Wormholes supported by two non-interacting fluids. *Astrophysics and Space Science*, **2013**, 346, 245-252	1.6	4
66	Central density dependent anisotropic compact stars. *European Physical Journal C*, **2013**, 73, 1	4.2	55
65	Oscillatory Universe, dark energy and general relativity. *Astrophysics and Space Science*, **2013**, 345, 367-371	1.6	4
64	Shipping Fees or Shipping Free? A Tale of Two Price Partitioning Strategies in Online Retailing. *Production and Operations Management*, **2013**, 22, 758-776	3.6	45
63	The (. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2012**, 707, 319-322	4.2	41
62	Singularity-free dark energy star. *General Relativity and Gravitation*, **2012**, 44, 107-124	2.3	98
61	Galactic rotation curves inspired by a noncommutative-geometry background. *General Relativity and Gravitation*, **2012**, 44, 905-916	2.3	26
60	Does accelerating Universe permit varying speed of light?. *Astrophysics and Space Science*, **2012**, 337, 509-510	1.6	1
59	Quark matter as dark matter in modeling galactic halo. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2012**, 714, 131-135	4.2	13
58	Strange stars in KoriBarua space-time. *European Physical Journal C*, **2012**, 72, 1	4.2	125
57	Anisotropic strange star with de Sitter spacetime. *European Physical Journal C*, **2012**, 72, 1	4.2	102
56	Magnetized dark energy and the late time acceleration. *European Physical Journal Plus*, **2012**, 127, 1	3.1	23
55	The . *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2012**, 717, 1-5	4.2	53
54	Searching for higher-dimensional wormholes with noncommutative geometry. *Physical Review D*, **2012**, 86,	4.9	53
53	OPTIMAL PROCUREMENT STRATEGY UNDER SUPPLY RISK. *Asia-Pacific Journal of Operational Research*, **2012**, 29, 1240006	0.8	14
52	ANISOTROPIC COMPACT STARS WITH VARIABLE COSMOLOGICAL CONSTANT. *International Journal of Modern Physics D*, **2012**, 21, 1250088	2.2	105
51	Time Variable and the Accelerating Universe. *International Journal of Theoretical Physics*, **2011**, 50, 752-759	1.1	4
50	Dark Energy Models with Variable Equation of State Parameter. *International Journal of Theoretical Physics*, **2011**, 50, 871-881	1.1	84

49	Phenomenology of ΛCDM Model: A Possibility of Accelerating Universe with Positive Pressure. *International Journal of Theoretical Physics*, **2011**, 50, 939-951	1.1	17
48	Variable Equation of State for Generalized Dark Energy Model. *International Journal of Theoretical Physics*, **2011**, 50, 2687-2696	1.1	27
47	Product differentiation and operations strategy in a capacitated environment. *European Journal of Operational Research*, **2011**, 210, 716-728	5.6	21
46	Charged gravastars admitting conformal motion. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2011**, 701, 388-392	4.2	80
45	A comparison of Hořava–Lifshitz gravity and Einstein gravity through thin-shell wormhole construction. *Classical and Quantum Gravity*, **2011**, 28, 155021	3.3	63
44	ISOTROPIC CASES OF STATIC CHARGED FLUID SPHERES IN GENERAL RELATIVITY. *International Journal of Modern Physics D*, **2011**, 20, 1675-1687	2.2	17
43	DARK ENERGY MODELS WITH VARIABLE EQUATION OF STATE PARAMETER. *International Journal of Modern Physics D*, **2010**, 19, 475-487	2.2	9
42	Charged anisotropic matter with linear or nonlinear equation of state. *Physical Review D*, **2010**, 82,	4.9	152
41	Singularity-free solutions for anisotropic charged fluids with Chaplygin equation of state. *Physical Review D*, **2010**, 82,	4.9	112
40	Higher Dimensional Dark Energy Investigation with Variable Λ and G. *International Journal of Theoretical Physics*, **2010**, 49, 1622-1627	1.1	9
39	Five Dimensional Cosmological Models in General Relativity. *International Journal of Theoretical Physics*, **2010**, 49, 2348-2357	1.1	2
38	Competitive price-matching guarantees under imperfect store availability. *Quantitative Marketing and Economics*, **2010**, 8, 275-300	0.9	15
37	Thin-shell wormholes from charged black holes in generalized dilaton-axion gravity. *General Relativity and Gravitation*, **2010**, 42, 2901-2912	2.3	49
36	GENERALIZED MODEL FOR Λ DARK ENERGY. *International Journal of Modern Physics D*, **2009**, 18, 389-396	2.2	5
35	SCENARIOS OF COSMIC STRING WITH A VARIABLE COSMOLOGICAL CONSTANT. *International Journal of Modern Physics D*, **2009**, 18, 781-795	2.2	3
34	Scenario of Inflationary Cosmology from the Phenomenological Λ Models. *International Journal of Theoretical Physics*, **2009**, 48, 2499-2510	1.1	9
33	Do Solar System Tests Permit Higher Dimensional General Relativity?. *International Journal of Theoretical Physics*, **2009**, 48, 3124-3138	1.1	11
32	Features of galactic halo in a brane world model and observational constraints. *Monthly Notices of the Royal Astronomical Society*, **2009**, 399, 2079-2087	4.3	34

31	The Impact of Capacity Costs on Product Differentiation in Delivery Time, Delivery Reliability, and Price. *Production and Operations Management*, **2009**, 15, 179-197	3.6	45
30	Galactic rotation curves and brane-world models. *Monthly Notices of the Royal Astronomical Society*, **2008**, 389, 27-33	4.3	25
29	ΛCDM UNIVERSE: A PHENOMENOLOGICAL APPROACH WITH MANY POSSIBILITIES. *International Journal of Modern Physics D*, **2008**, 17, 301-309	2.2	29
28	DARK ENERGY WITH POLYTROPIC EQUATION-OF-STATE. *Modern Physics Letters A*, **2008**, 23, 3187-3198	1.3	31
27	Relativistic anisotropic charged fluid spheres with varying cosmological constant. *Astrophysics and Space Science*, **2008**, 315, 341-346	1.6	4
26	Sustainable supply chain management. *International Journal of Production Economics*, **2008**, 111, 193-194	9.3	52
25	The dark energy equation of state. *Monthly Notices of the Royal Astronomical Society: Letters*, **2008**, 386, L92-L95	4.3	52
24	DARK ENERGY MODELS WITH A TIME-DEPENDENT GRAVITATIONAL CONSTANT. *International Journal of Modern Physics D*, **2007**, 16, 1791-1802	2.2	45
23	PHYSICAL PROPERTIES OF TOLMAN–BAYIN SOLUTIONS: SOME CASES OF STATIC CHARGED FLUID SPHERES IN GENERAL RELATIVITY. *International Journal of Modern Physics D*, **2007**, 16, 1745-1759	2.2	17
22	Optimal pricing and inventory control policy in periodic-review systems with fixed ordering cost and lost sales. *Naval Research Logistics*, **2006**, 53, 117-136	1.5	120
21	Coordination of quantity and shelf-retention timing in the video movie rental industry. *IIE Transactions*, **2006**, 38, 525-536		36
20	ELECTROMAGNETIC MASS IN (n + 2)-DIMENSIONAL SPACE–TIMES. *International Journal of Modern Physics D*, **2006**, 15, 917-923	2.2	18
19	Relativistic Electromagnetic Mass Models: Charged Dust Distribution in Higher Dimensions. *Astrophysics and Space Science*, **2006**, 302, 153-156	1.6	3
18	CLASSICAL ELECTRON MODEL WITH NEGATIVE ENERGY DENSITY IN EINSTEIN–CARTAN THEORY OF GRAVITATION. *International Journal of Modern Physics D*, **2004**, 13, 555-565	2.2	6
17	The effectiveness of investment in lead time reduction for a make-to-stock product. *IIE Transactions*, **2004**, 36, 333-344		10
16	Tolman-Bayin type static charged fluid spheres in general relativity. *Monthly Notices of the Royal Astronomical Society*, **2004**, 349, 1331-1334	4.3	28
15	Customer lead time management when both demand and price are lead time sensitive. *European Journal of Operational Research*, **2004**, 153, 769-781	5.6	141
14	Energy density in general relativity: a possible role for the cosmological constant. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2004**, 322, 150-155	2.3	17

13	Product Differentiation and Capacity Cost Interaction in Time and Price Sensitive Markets. *Manufacturing and Service Operations Management*, **2003**, 5, 18-36	4.6	146
12	Static Spherically Symmetric Electromagnetic Mass Models with Charged Dust Sources in Einstein-Cartan Theory: Lane-Emden Models. *Astrophysics and Space Science*, **2002**, 280, 345-355	1.6	11
11	Charged Static Fluid Spheres in General Relativity. *Astrophysics and Space Science*, **2002**, 282, 635-644	1.6	20
10	Static Spherical Charged Dust Electromagnetic Mass Models in Einstein-Cartan Theory. *General Relativity and Gravitation*, **1997**, 29, 683-690	2.3	17
9	Static charged dust distributions: Sources of purely electromagnetic origin. *Astrophysics and Space Science*, **1996**, 182, 105-110	1.6	14
8	Spherically symmetric electromagnetic mass models with cosmological parameter ?. *Astrophysics and Space Science*, **1993**, 203, 211-216	1.6	17
7	A class of axially-symmetric electromagnetic mass models. *Astrophysics and Space Science*, **1993**, 199, 333-337	1.6	11
6	Spherically-symmetric gravitational sources of purely electromagnetic origin. *Astrophysics and Space Science*, **1991**, 180, 143-149	1.6	19
5	Gravitational sources of purely electromagnetic origin. *Astrophysics and Space Science*, **1991**, 178, 119-132	1.6	19
4	Compact stellar models in modified gravity. *International Journal of Modern Physics D*,2140003	2.2	1
3	Cosmological models with a hybrid scale factor. *International Journal of Modern Physics D*,2140005	2.2	1
2	A generalized form of the Raychaudhuri equation. *International Journal of Modern Physics D*,2150092	2.2	1
1	Modified Chaplygin gas in anisotropic universes on the brane. *International Journal of Modern Physics D*,2150093	2.2	0