

# Sunil Kumar Maurya

## List of Publications by Year in Descending Order

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**Version:** 2024-04-25

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

101  
papers

2,438  
citations

29  
h-index

44  
g-index

106  
ext. papers

3,277  
ext. citations

3  
avg, IF

6.44  
L-index

#	Paper	IF	Citations
101	Role of gravitational decoupling on isotropization and complexity of self-gravitating system under complete geometric deformation approach. <i>European Physical Journal C</i> , <b>2022</b> , 82, 1	4.2	4
100	Gravitationally decoupled anisotropic solution using polytropic EoS in the framework of 5D Einstein-Gauss-Bonnet Gravity. <i>European Physical Journal C</i> , <b>2022</b> , 82, 1	4.2	3
99	Isotropization of embedding Class I spacetime and anisotropic system generated by complexity factor in the framework of gravitational decoupling. <i>European Physical Journal C</i> , <b>2022</b> , 82, 1	4.2	3
98	Gravitationally Decoupled Strange Star Model beyond the Standard Maximum Mass Limit in Einstein-Gauss-Bonnet Gravity. <i>Astrophysical Journal</i> , <b>2022</b> , 925, 208	4.7	5
97	Role of Complexity on Self-gravitating Compact Star by Gravitational Decoupling. <i>Fortschritte Der Physik</i> , <b>2022</b> , 70, 2200041	5.7	0
96	Quark stars in 4-dimensional Einstein-Gauss-Bonnet gravity. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	5
95	Anisotropic solution for compact star in 5D Einstein-Gauss-Bonnet gravity. <i>Modern Physics Letters A</i> , <b>2021</b> , 36,	1.3	2
94	Minimally deformed charged anisotropic spherical solution. <i>European Physical Journal Plus</i> , <b>2021</b> , 136, 1	3.1	6
93	Minimally deformed wormholes. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	8
92	MGD solution under Class I generator. <i>European Physical Journal Plus</i> , <b>2021</b> , 136, 1	3.1	8
91	Anisotropic stars in Brans-Dicke gravity. <i>Chinese Journal of Physics</i> , <b>2021</b> , 71, 548-560	3.5	7
90	Decoupling gravitational sources in $f(R,T)$ gravity under class I spacetime. <i>Physics of the Dark Universe</i> , <b>2021</b> , 31, 100753	4.4	24
89	Charged strange stellar model describing by Tolman V metric. <i>Results in Physics</i> , <b>2021</b> , 20, 103648	3.7	9
88	Color-flavor locked quark stars in energy-momentum squared gravity. <i>Physics of the Dark Universe</i> , <b>2021</b> , 31, 100774	4.4	13
87	Charged spherical solution in $f(G,T)$ gravity via embedding. <i>Chinese Journal of Physics</i> , <b>2021</b> , 74, 313-313	3.5	4
86	Anisotropic stars via embedding approach in Brans-Dicke gravity. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	5
85	Spherically symmetric anisotropic charged solution under complete geometric deformation approach. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	6

84	Anisotropic Strange Star in 5 Einstein-Gauss-Bonnet Gravity. <i>Entropy</i> , <b>2021</b> , 23,	2.8	7
83	Minimally deformed anisotropic stars by gravitational decoupling in Einstein-Gauss-Bonnet gravity. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	5
82	Exploring Physical Properties of Gravitationally Decoupled Anisotropic Solution in 5D Einstein-Gauss-Bonnet Gravity. <i>Fortschritte Der Physik</i> , <b>2021</b> , 69, 2100099	5.7	4
81	Complete deformed charged anisotropic spherical solution satisfying Karmarkar condition. <i>Results in Physics</i> , <b>2021</b> , 29, 104674	3.7	1
80	Self-gravitating anisotropic star using gravitational decoupling. <i>Physica Scripta</i> , <b>2021</b> , 96, 125041	2.6	2
79	An EGD model in the background of embedding class I spacetime. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	17
78	Non-singular solution for anisotropic model by gravitational decoupling in the framework of complete geometric deformation (CGD). <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	22
77	Physical properties of class I compact star model for linear and Starobinsky $f(R,T)$ functions. <i>Physics of the Dark Universe</i> , <b>2020</b> , 30, 100620	4.4	13
76	Regular decoupling sector and exterior solutions in the context of MGD. <i>Classical and Quantum Gravity</i> , <b>2020</b> , 37, 155002	3.3	10
75	Gravitational decoupling minimal geometric deformation model in modified $f(R,T)$ gravity theory. <i>Physics of the Dark Universe</i> , <b>2020</b> , 30, 100640	4.4	36
74	Static fluid spheres admitting Karmarkar condition. <i>Chinese Physics C</i> , <b>2020</b> , 44, 035101	2.2	16
73	Extended gravitational decoupling (GD) solution for charged compact star model. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	30
72	A generalised embedding class one static solution describing anisotropic fluid sphere. <i>Astrophysics and Space Science</i> , <b>2020</b> , 365, 1	1.6	16
71	Embedding class I spherically symmetric charged compact star model. <i>Astrophysics and Space Science</i> , <b>2020</b> , 365, 1	1.6	5
70	Decoupling gravitational sources by MGD approach in Rastall gravity. <i>Physics of the Dark Universe</i> , <b>2020</b> , 29, 100577	4.4	28
69	Class I approach as MGD generator. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	40
68	Anisotropic stars with a modified polytropic equation of state. <i>Physica Scripta</i> , <b>2020</b> , 95, 115301	2.6	10
67	Anisotropic fluid spheres in the framework of $f(R,T)$ gravity theory. <i>Annals of Physics</i> , <b>2020</b> , 414, 168070	2.5	24

66	Charged anisotropic compact star in $f(R,T)$ gravity: A minimal geometric deformation gravitational decoupling approach. <i>Physics of the Dark Universe</i> , <b>2020</b> , 27, 100442	4.4	53
65	Buchdahl model in $f(R,T)$ gravity: A comparative study with standard Einstein gravity. <i>Physics of the Dark Universe</i> , <b>2020</b> , 27, 100438	4.4	20
64	Anisotropic stars in $(f(G,T))$ gravity under class I space-time. <i>European Physical Journal Plus</i> , <b>2020</b> , 135, 1	3.1	15
63	Generalized relativistic anisotropic compact star models by gravitational decoupling. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	71
62	Charged anisotropic strange stars in general relativity. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	24
61	A generalized Finch-Skea class one static solution. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	20
60	A study of anisotropic compact stars based on embedding class 1 condition. <i>International Journal of Modern Physics D</i> , <b>2019</b> , 28, 1950116	2.2	9
59	Relativistic model for anisotropic compact stars using Karmarkar condition. <i>Astrophysics and Space Science</i> , <b>2019</b> , 364, 1	1.6	16
58	Generalized anisotropic models for conformal symmetry. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	14
57	Exploring physical features of anisotropic strange stars beyond standard maximum mass limit in $f(R,T)$ gravity. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2019</b> , 485, 5652-5663	4.3	68
56	Study of charged compact stars with class 1 metric under general relativity. <i>Canadian Journal of Physics</i> , <b>2019</b> , 97, 1323-1331	1.1	3
55	Effect of pressure anisotropy on Buchdahl-type relativistic compact stars. <i>General Relativity and Gravitation</i> , <b>2019</b> , 51, 1	2.3	23
54	Minimally deformed anisotropic model of class one space-time by gravitational decoupling. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	48
53	Relativistic charged spheres: compact stars, compactness and stable configurations. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2019</b> , 2019, 005-005	6.4	17
52	Anisotropic relativistic fluid spheres: an embedding class I approach. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	48
51	A completely deformed anisotropic class one solution for charged compact star: a gravitational decoupling approach. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	39
50	A study on charged compact stars. <i>International Journal of Modern Physics D</i> , <b>2019</b> , 28, 1950053	2.2	5
49	New anisotropic fluid spheres from embedding. <i>European Physical Journal A</i> , <b>2018</b> , 54, 1	2.5	23

48	Exact solution of anisotropic compact stars via mass function. <i>Astrophysics and Space Science</i> , <b>2018</b> , 363, 1	1.6	14
47	Charged Vaidya-Iikekar model for super compact star. <i>European Physical Journal C</i> , <b>2018</b> , 78, 1	4.2	21
46	A generalized family of anisotropic compact object in general relativity. <i>Annals of Physics</i> , <b>2018</b> , 395, 152-169	2.5	9
45	Relativistic compact stars with charged anisotropic matter. <i>Chinese Physics C</i> , <b>2018</b> , 42, 055101	2.2	26
44	Relativistic modeling of compact stars for anisotropic matter distribution. <i>European Physical Journal A</i> , <b>2017</b> , 53, 1	2.5	17
43	Anisotropic stars for spherically symmetric spacetimes satisfying the Karmarkar condition. <i>Annals of Physics</i> , <b>2017</b> , 382, 36-49	2.5	43
42	Compact stars with specific mass function. <i>Annals of Physics</i> , <b>2017</b> , 385, 532-545	2.5	35
41	Modeling of charged anisotropic compact stars in general relativity. <i>European Physical Journal A</i> , <b>2017</b> , 53, 1	2.5	13
40	A new model for spherically symmetric charged compact stars of embedding class 1. <i>European Physical Journal C</i> , <b>2017</b> , 77, 1	4.2	47
39	Anisotropic fluid spheres of embedding class one using Karmarkar condition. <i>European Physical Journal C</i> , <b>2017</b> , 77, 1	4.2	66
38	Generating physically realizable stellar structures via embedding. <i>European Physical Journal C</i> , <b>2017</b> , 77, 1	4.2	50
37	All spherically symmetric charged anisotropic solutions for compact stars. <i>European Physical Journal C</i> , <b>2017</b> , 77, 1	4.2	47
36	A family of charged compact objects with anisotropic pressure. <i>European Physical Journal C</i> , <b>2017</b> , 77, 1	4.2	54
35	Relativistic anisotropic models for compact star with equation of state $p = f(\rho)$ . <i>International Journal of Modern Physics D</i> , <b>2017</b> , 26, 1750002	2.2	37
34	Modelling of anisotropic compact stars of embedding class one. <i>European Physical Journal A</i> , <b>2016</b> , 52, 1	2.5	66
33	Generalised model for anisotropic compact stars. <i>European Physical Journal C</i> , <b>2016</b> , 76, 1	4.2	83
32	A new model for spherically symmetric anisotropic compact star. <i>European Physical Journal C</i> , <b>2016</b> , 76, 1	4.2	88
31	Anisotropic generalization of Matese & Whitman solution for compact star models in general relativity. <i>Astrophysics and Space Science</i> , <b>2016</b> , 361, 1	1.6	12

30	A new model for charged anisotropic compact star. <i>Astrophysics and Space Science</i> , <b>2016</b> , 361, 1	1.6	17
29	Relativistic electromagnetic mass models in spherically symmetric spacetime. <i>Astrophysics and Space Science</i> , <b>2016</b> , 361, 1	1.6	26
28	Well behaved anisotropic compact star models in general relativity. <i>Astrophysics and Space Science</i> , <b>2016</b> , 361, 1	1.6	10
27	A new exact anisotropic solution of embedding class one. <i>European Physical Journal A</i> , <b>2016</b> , 52, 1	2.5	95
26	Two new exact solutions for relativistic perfect fluid spheres through Lake's algorithm. <i>Astrophysics and Space Science</i> , <b>2015</b> , 355, 303-308	1.6	1
25	Anisotropic models for compact stars. <i>European Physical Journal C</i> , <b>2015</b> , 75, 1	4.2	103
24	Three new exact solutions for charged fluid spheres in general relativity. <i>Astrophysics and Space Science</i> , <b>2015</b> , 356, 75-87	1.6	2
23	Spherically symmetric charged compact stars. <i>European Physical Journal C</i> , <b>2015</b> , 75, 1	4.2	81
22	Relativistic Modelling of Stable Anisotropic Super-Dense Star. <i>Reports on Mathematical Physics</i> , <b>2015</b> , 76, 21-40	0.8	10
21	A new class of relativistic charged anisotropic super dense star models. <i>Astrophysics and Space Science</i> , <b>2014</b> , 353, 657-665	1.6	31
20	Some New Solutions for Shear-Free Fluid Spheres with Heat Flow. <i>International Journal of Theoretical Physics</i> , <b>2013</b> , 52, 1075-1087	1.1	2
19	Charged fluid to anisotropic fluid distribution in general relativity. <i>Astrophysics and Space Science</i> , <b>2013</b> , 344, 243-251	1.6	54
18	A new family of polynomial solutions for charged fluid spheres. <i>Nonlinear Analysis: Real World Applications</i> , <b>2012</b> , 13, 677-685	2.1	19
17	A Class of Charged Relativistic Superdense Star Models. <i>International Journal of Theoretical Physics</i> , <b>2012</b> , 51, 943-953	1.1	14
16	A family of physically realizable perfect fluid spheres representing a quark stars in general relativity. <i>Astrophysics and Space Science</i> , <b>2012</b> , 337, 151-160	1.6	8
15	Well Behaved Charged Generalization of Buchdahl's Fluid Spheres. <i>International Journal of Theoretical Physics</i> , <b>2012</b> , 51, 3478-3489	1.1	2
14	Analytic Well Behaved Charged Relativistic Super-dense Star Models. <i>Procedia Engineering</i> , <b>2012</b> , 38, 1233-1240		0
13	Generalised Buchdahl Solution via Solution Generating Scheme. <i>Procedia Engineering</i> , <b>2012</b> , 38, 3074-3085		

12	On Charged Analogues of Matese and Whitman Interior Solutions in General Relativity. <i>International Journal of Theoretical Physics</i> , <b>2012</b> , 51, 1792-1805	1.1	7
11	Exact well behaved solutions of Einstein-Maxwell equations for relativistic charged superdense star models. <i>Astrophysics and Space Science</i> , <b>2012</b> , 340, 323-330	1.6	6
10	Relativistic modeling of charged super-dense star with Einstein-Maxwell equations in general relativity. <i>Applied Mathematics and Computation</i> , <b>2012</b> , 218, 8260-8268	2.7	18
9	A family of anisotropic super-dense star models using a space-time describing charged perfect fluid distributions. <i>Physica Scripta</i> , <b>2012</b> , 86, 025009	2.6	41
8	A class of charged analogues of Durgapal and Fuloria superdense star. <i>Astrophysics and Space Science</i> , <b>2011</b> , 331, 135-144	1.6	41
7	A class of regular and well behaved relativistic super-dense star models. <i>Astrophysics and Space Science</i> , <b>2011</b> , 332, 155-162	1.6	49
6	A class of regular and well behaved charge analogue of Kuchowicz's relativistic super-dense star model. <i>Astrophysics and Space Science</i> , <b>2011</b> , 332, 415-421	1.6	20
5	A family of well behaved charge analogues of a well behaved neutral solution in general relativity. <i>Astrophysics and Space Science</i> , <b>2011</b> , 332, 481-490	1.6	46
4	Charged analogue of Vlasenko-Pronin superdense star in general relativity. <i>Astrophysics and Space Science</i> , <b>2011</b> , 333, 149-160	1.6	28
3	On a family of well behaved perfect fluid balls as astrophysical objects in general relativity. <i>Astrophysics and Space Science</i> , <b>2011</b> , 334, 145-154	1.6	23
2	Extremization of mass of charged superdense star models describe by Durgapal type space-time metric. <i>Astrophysics and Space Science</i> , <b>2011</b> , 334, 301-310	1.6	20
1	REGULAR AND WELL-BEHAVED RELATIVISTIC CHARGED SUPERDENSE STAR MODELS. <i>International Journal of Modern Physics D</i> , <b>2011</b> , 20, 1289-1300	2.2	19