

# Sunil Kumar Maurya

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9138979/publications.pdf>

Version: 2024-02-01

106  
papers

3,962  
citations

101384

36  
h-index

149479

56  
g-index

106  
all docs

106  
docs citations

106  
times ranked

240  
citing authors

#	ARTICLE	IF	CITATIONS
1	Anisotropic models for compact stars. European Physical Journal C, 2015, 75, 1.	1.4	145
2	Generalised model for anisotropic compact stars. European Physical Journal C, 2016, 76, 1.	1.4	120
3	A new exact anisotropic solution of embedding class one. European Physical Journal A, 2016, 52, 1.	1.0	117
4	Spherically symmetric charged compact stars. European Physical Journal C, 2015, 75, 1.	1.4	111
5	A new model for spherically symmetric anisotropic compact star. European Physical Journal C, 2016, 76, 1.	1.4	105
6	Modelling of anisotropic compact stars of embedding class one. European Physical Journal A, 2016, 52, 1.	1.0	97
7	Anisotropic fluid spheres of embedding class one using Karmarkar condition. European Physical Journal C, 2017, 77, 1.	1.4	95
8	Exploring physical features of anisotropic strange stars beyond standard maximum mass limit in $\left(R, \text{mathcal{T}}\right)$ gravity. Monthly Notices of the Royal Astronomical Society, 2019, 485, 5652-5665.	1.6	95
9	Generalized relativistic anisotropic compact star models by gravitational decoupling. European Physical Journal C, 2019, 79, 1.	1.4	92
10	Class I approach as MGD generator. European Physical Journal C, 2020, 80, 1.	1.4	89
11	Gravitational decoupling minimal geometric deformation model in modified $f(R)$ gravity theory. Physics of the Dark Universe, 2020, 30, 100640.	1.8	86
12	Minimally deformed anisotropic model of class one space-time by gravitational decoupling. European Physical Journal C, 2019, 79, 1.	1.4	85
13	Charged anisotropic compact star in $f(R)$ gravity: A minimal geometric deformation gravitational decoupling approach. Physics of the Dark Universe, 2020, 27, 100442.	1.8	83
14	Anisotropic relativistic fluid spheres: an embedding class I approach. European Physical Journal C, 2019, 79, 1.	1.4	75
15	Generating physically realizable stellar structures via embedding. European Physical Journal C, 2017, 77, 1.	1.4	71
16	All spherically symmetric charged anisotropic solutions for compact stars. European Physical Journal C, 2017, 77, 1.	1.4	69
17	A family of charged compact objects with anisotropic pressure. European Physical Journal C, 2017, 77, 1.	1.4	69
18	Charged fluid to anisotropic fluid distribution in general relativity. Astrophysics and Space Science, 2013, 344, 243-251.	0.5	64

#	ARTICLE	IF	CITATIONS
19	A new model for spherically symmetric charged compact stars of embedding class 1. European Physical Journal C, 2017, 77, 1.	1.4	64
20	A class of regular and well behaved relativistic super-dense star models. Astrophysics and Space Science, 2011, 332, 155-162.	0.5	58
21	Relativistic anisotropic models for compact star with equation of state $p = f(\tilde{r})$ . International Journal of Modern Physics D, 2017, 26, 1750002.	0.9	58
22	Extended gravitational decoupling (GD) solution for charged compact star model. European Physical Journal C, 2020, 80, 1.	1.4	58
23	Anisotropic stars for spherically symmetric spacetimes satisfying the Karmarkar condition. Annals of Physics, 2017, 382, 36-49.	1.0	57
24	A class of charged analogues of Durgapal and Fuloria superdense star. Astrophysics and Space Science, 2011, 331, 135-144.	0.5	55
25	A completely deformed anisotropic class one solution for charged compact star: a gravitational decoupling approach. European Physical Journal C, 2019, 79, 1.	1.4	55
26	Decoupling gravitational sources in $f(R)$ gravity under class I spacetime. Physics of the Dark Universe, 2021, 31, 100753.	1.8	55
27	A family of well behaved charge analogues of a well behaved neutral solution in general relativity. Astrophysics and Space Science, 2011, 332, 481-490.	0.5	53
28	Decoupling gravitational sources by MGD approach in Rastall gravity. Physics of the Dark Universe, 2020, 29, 100577.	1.8	53
29	Effect of pressure anisotropy on Buchdahl-type relativistic compact stars. General Relativity and Gravitation, 2019, 51, 1.	0.7	49
30	A family of anisotropic super-dense star models using a space-time describing charged perfect fluid distributions. Physica Scripta, 2012, 86, 025009.	1.2	47
31	Color-flavor locked quark stars in energy-momentum squared gravity. Physics of the Dark Universe, 2021, 31, 100774.	1.8	46
32	Charged anisotropic strange stars in general relativity. European Physical Journal C, 2019, 79, 1.	1.4	44
33	Gravitationally Decoupled Strange Star Model beyond the Standard Maximum Mass Limit in Einstein-Gauss-Bonnet Gravity. Astrophysical Journal, 2022, 925, 208.	1.6	42
34	Compact stars with specific mass function. Annals of Physics, 2017, 385, 532-545.	1.0	40
35	Non-singular solution for anisotropic model by gravitational decoupling in the framework of complete geometric deformation (CGD). European Physical Journal C, 2020, 80, 1.	1.4	40
36	Anisotropic fluid spheres in the framework of $f(R)$ gravity theory. Annals of Physics, 2020, 414, 168070.	1.0	38

#	ARTICLE	IF	CITATIONS
37	An EGD model in the background of embedding class I space-time. European Physical Journal C, 2020, 80, 1.	1.4	37
38	A new class of relativistic charged anisotropic super dense star models. Astrophysics and Space Science, 2014, 353, 657-665.	0.5	36
39	Anisotropic stars in $G_T$ gravity under class I space-time. European Physical Journal Plus, 2020, 135, 1.	1.2	36
40	Minimally deformed anisotropic stars by gravitational decoupling in Einstein-Gauss-Bonnet gravity. European Physical Journal C, 2021, 81, 1.	1.4	36
41	Isotropization of embedding Class I spacetime and anisotropic system generated by complexity factor in the framework of gravitational decoupling. European Physical Journal C, 2022, 82, 1.	1.4	36
42	Charged Vaidya-Tikekar model for super compact star. European Physical Journal C, 2018, 78, 1.	1.4	33
43	A generalized Finch-Skea class one static solution. European Physical Journal C, 2019, 79, 1.	1.4	33
44	Buchdahl model in $f(R)$ gravity: A comparative study with standard Einstein's gravity. Physics of the Dark Universe, 2020, 27, 100438.	1.8	33
45	Role of Complexity on Self-gravitating Compact Star by Gravitational Decoupling. Fortschritte Der Physik, 2022, 70, .	1.5	33
46	Charged analogue of Vlasenko-Pronin superdense star in general relativity. Astrophysics and Space Science, 2011, 333, 149-160.	0.5	32
47	New anisotropic fluid spheres from embedding. European Physical Journal A, 2018, 54, 1.	1.0	32
48	Physical properties of class I compact star model for linear and Starobinsky $f(R)$ gravity. Physics of the Dark Universe, 2020, 30, 100620.	1.8	32
49	Role of gravitational decoupling on isotropization and complexity of self-gravitating system under complete geometric deformation approach. European Physical Journal C, 2022, 82, 1.	1.4	31
50	Relativistic compact stars with charged anisotropic matter. Chinese Physics C, 2018, 42, 055101.	1.5	30
51	MGD solution under Class I generator. European Physical Journal Plus, 2021, 136, 1.	1.2	30
52	Spherically symmetric anisotropic charged solution under complete geometric deformation approach. European Physical Journal C, 2021, 81, 1.	1.4	30
53	Relativistic electromagnetic mass models in spherically symmetric spacetime. Astrophysics and Space Science, 2016, 361, 1.	0.5	29
54	Relativistic charged spheres: compact stars, compactness and stable configurations. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 005-005.	1.9	28

#	ARTICLE	IF	CITATIONS
55	Generalized anisotropic models for conformal symmetry. European Physical Journal C, 2019, 79, 1.	1.4	28
56	On a family of well behaved perfect fluid balls as astrophysical objects in general relativity. Astrophysics and Space Science, 2011, 334, 145-154.	0.5	27
57	Static fluid spheres admitting Karmarkar condition. Chinese Physics C, 2020, 44, 035101.	1.5	27
58	Minimally deformed wormholes. European Physical Journal C, 2021, 81, 1.	1.4	27
59	Exploring Physical Properties of Gravitationally Decoupled Anisotropic Solution in 5D Einstein-Gauss-Bonnet Gravity. Fortschritte Der Physik, 2021, 69, 2100099.	1.5	27
60	Relativistic model for anisotropic compact stars using Karmarkar condition. Astrophysics and Space Science, 2019, 364, 1.	0.5	26
61	A generalised embedding class one static solution describing anisotropic fluid sphere. Astrophysics and Space Science, 2020, 365, 1.	0.5	26
62	A class of regular and well behaved charge analogue of Kuchowicz's relativistic super-dense star model. Astrophysics and Space Science, 2011, 332, 415-421.	0.5	24
63	Charged strange stellar model describing by Tolman V metric. Results in Physics, 2021, 20, 103648.	2.0	24
64	Gravitationally decoupled anisotropic solution using polytropic EoS in the framework of 5D Einstein-Gauss-Bonnet Gravity. European Physical Journal C, 2022, 82, 1.	1.4	23
65	Extremization of mass of charged superdense star models describe by Durgapal type space-time metric. Astrophysics and Space Science, 2011, 334, 301-310.	0.5	22
66	REGULAR AND WELL-BEHAVED RELATIVISTIC CHARGED SUPERDENSE STAR MODELS. International Journal of Modern Physics D, 2011, 20, 1289-1300.	0.9	22
67	A new family of polynomial solutions for charged fluid spheres. Nonlinear Analysis: Real World Applications, 2012, 13, 677-685.	0.9	22
68	Regular decoupling sector and exterior solutions in the context of MGD. Classical and Quantum Gravity, 2020, 37, 155002.	1.5	22
69	Anisotropic stars via embedding approach in Brans-Dicke gravity. European Physical Journal C, 2021, 81, 1.	1.4	22
70	Relativistic modeling of charged super-dense star with Einstein-Maxwell equations in general relativity. Applied Mathematics and Computation, 2012, 218, 8260-8268.	1.4	21
71	Relativistic modeling of compact stars for anisotropic matter distribution. European Physical Journal A, 2017, 53, 1.	1.0	21
72	Modeling of charged anisotropic compact stars in general relativity. European Physical Journal A, 2017, 53, 1.	1.0	21



