

# Z Yousaf

## List of Publications by Year in descending order

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Version: 2024-02-01

151  
papers

4,310  
citations

76326

40  
h-index

149698

56  
g-index

152  
all docs

152  
docs citations

152  
times ranked

273  
citing authors

#	ARTICLE	IF	CITATIONS
1	Causes of irregular energy density in $f(R, T)$ gravity. <i>Physical Review D</i> , 2016, 93, .	4.7	181
2	Influence of modification of gravity on the dynamics of radiating spherical fluids. <i>Physical Review D</i> , 2016, 93, .	4.7	123
3	Energy conditions in modified $f(R)$ gravity. <i>General Relativity and Gravitation</i> , 2017, 49, 1.	2.0	105
4	Dynamical instability of the charged expansion-free spherical collapse in $f(R, T)$ gravity. <i>Physical Review D</i> , 2017, 95, .	4.7	96
5	Role of tilted congruence and $f(R, T)$ gravity on regular compact objects. <i>Physical Review D</i> , 2017, 95, .	4.7	91
6	Static spherical wormhole models in $f(R, T)$ gravity. <i>European Physical Journal Plus</i> , 2017, 132, 1.	2.6	83
7	Dynamical analysis of self-gravitating stars in $f(R, T)$ gravity. <i>Astrophysics and Space Science</i> , 2014, 354, 471-479.	1.4	79
8	Spherical relativistic vacuum core models in a $\Lambda$ -dominated era. <i>European Physical Journal Plus</i> , 2017, 132, 1.	2.6	78
9	Electromagnetic field and cylindrical compact objects in modified gravity. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 458, 1785-1802.	4.4	76
10	Role of $f(R, T)$ gravity on the evolution of relativistic stars. <i>International Journal of Modern Physics D</i> , 2018, 27, 1850044.	2.1	74
11	Construction of charged cylindrical gravastar-like structures. <i>Physics of the Dark Universe</i> , 2020, 28, 100509.	4.9	73
12	Existence of compact structures in $f(R, \hat{T})$ gravity. <i>European Physical Journal C</i> , 2018, 78, 1.	3.9	69
13	Stability analysis of stellar radiating filaments. <i>Classical and Quantum Gravity</i> , 2017, 34, 145002.	4.0	68
14	On the role of $f(R, T)$ terms in structure scalars. <i>European Physical Journal Plus</i> , 2019, 134, 1.	2.6	67
15	Structure scalars of spherically symmetric dissipative fluids with $f(R, T)$ gravity. <i>Astrophysics and Space Science</i> , 2018, 363, 1.	1.4	65
16	Cavity evolution and instability constraints of relativistic interiors. <i>European Physical Journal C</i> , 2016, 76, 1.	3.9	64
17	Stability of self-gravitating anisotropic fluids in $f(R, T)$ gravity. <i>Physics of the Dark Universe</i> , 2020, 28, 100501.	4.9	64
18	Stellar filaments with Minkowskian core in the Einstein- $\Lambda$ gravity. <i>European Physical Journal Plus</i> , 2017, 132, 1.	2.6	62



#	ARTICLE	IF	CITATIONS
37	Influence of $f(R)$ models on the existence of anisotropic self-gravitating systems. European Physical Journal C, 2017, 77, 1.	3.9	44
38	Radiating cylindrical gravitational collapse with structure scalars in $f(R)$ gravity. Astrophysics and Space Science, 2015, 357, 1.	1.4	43
39	Stability of compact stars in $f(R)$ gravity. Monthly Notices of the Royal Astronomical Society, 2017, 464, 4509-4519.	4.4	43
40	Dynamical variables and evolution of the universe. International Journal of Modern Physics D, 2017, 26, 1750029.	2.1	43
41	Effects of CDTT model on the stability of spherical collapse in Palatini $f(R)$ gravity. European Physical Journal C, 2013, 73, 1.	3.9	42
42	Energy density inhomogeneities with polynomial $f(R)$ cosmology. Astrophysics and Space Science, 2014, 352, 321-329.	1.4	42
43	Gravastars in $f(R)$ gravity. Physics of the Dark Universe, 2020, 28, 100527.	4.9	42
44	Gravitational collapse and dark universe with LTB geometry. International Journal of Modern Physics D, 2017, 26, 1750045.	2.1	41
45	Hydrodynamic properties of dissipative fluids associated with tilted observers. Modern Physics Letters A, 2019, 34, 1950333.	1.2	40
46	EVOLUTION OF EXPANSION-FREE SELF-GRAVITATING FLUIDS AND PLANE SYMMETRY. International Journal of Modern Physics D, 2012, 21, 1250095.	2.1	38
47	Stability of regular energy density in Palatini $f(R)$ gravity. European Physical Journal C, 2015, 75, 1.	3.9	38
48	Stability of anisotropic stellar filaments. Annals of Physics, 2017, 387, 253-270.	2.8	38
49	The measure of complexity in charged celestial bodies in $f(R)$ gravity.		

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55	Study of static charged spherical structure in $f(R, \hat{A}, \hat{Q})$ gravity. European Physical Journal Plus, 2020, 135, 1.	2.6	30
56	Spatially Hyperbolic Gravitating Sources in $\hat{\nu}$ -Dominated Era. Universe, 2022, 8, 131.	2.5	30
57	Dynamics of spherical stars with structure scalars and $\langle i \rangle R \langle /i \rangle + \langle i \rangle \ddot{\mu} R \langle /i \rangle \langle \sup \langle i \rangle n \langle /i \rangle \langle /sup \rangle$ cosmology. Canadian Journal of Physics, 2015, 93, 905-911.	1.1	29
58	Evolution of the charged dynamical radiating spherical structures. Annals of Physics, 2020, 420, 168267.	2.8	29
59	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e21" altimg="si9.svg" \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle f \langle /mml:mi \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mo} \rangle ( \langle /mml:mo \rangle \langle \text{mml:mi} \rangle T_j \text{ ETQq1 1 0.784314 rgBT}_j \langle /Overlock \rangle$ theory and. Physics of the Dark Universe, 2022, 36, 101015.	4.9	29
60	Existence of relativistic structures in $f(R, T)$ gravity. Astrophysics and Space Science, 2017, 362, 1.	1.4	28
61	Gravastars in $f(R, G)$ gravity. Physics of the Dark Universe, 2020, 29, 100561.	4.9	27
62	Energy density inhomogeneities in charged radiating stars with generalized CDTT model. Astrophysics and Space Science, 2014, 354, 431-441.	1.4	26
63	Energy conditions in higher derivative $f(R, \hat{\alpha}-jR, T)$ gravity. International Journal of Geometric Methods in Modern Physics, 2018, 15, 1850146.	2.0	26

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73	Stability analysis of restricted non-static axial geometry in $f(R)$ gravity. Chinese Journal of Physics, 2022, 77, 2617-2638.	3.9	19
74	Effects of non-minimally coupled $f(R)$ gravity on the stability of a self-gravitating spherically symmetric fluid. International Journal of Geometric Methods in Modern Physics, 2022, 19, .	2.0	19
75	Dynamical analysis of radiating spherical collapse in Palatini $f(R)$ gravity. Astrophysics and Space Science, 2014, 354, 481-496.	1.4	18
76	Dissipative self-gravitating systems in modified gravity. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 011-011.	5.4	18
77	Structure scalars and their evolution for massive objects in $f(R)$ gravity. European Physical Journal C, 2021, 81, 1.	3.9	18
78	Structure of spherically symmetric objects: a study based on structure scalars. Physica Scripta, 2022, 97, 025301.	2.5	18
79	Dynamical analysis of charged fluid under nonminimally coupled gravity theory. International Journal of Modern Physics D, 2022, 31, .	2.1	18
80	Stability of a class of non-static axial self-gravitating systems in $f(R)$ gravity. Astrophysics and Space Science, 2014, 352, 943-954.	1.4	17
81	Charged black string thin-shell wormholes in modified gravity. Annals of Physics, 2017, 383, 439-454.	2.8	17
82	Non-reversible evolution of tilted Szekeres spacetimes with $f(R)$ gravity. European Physical Journal Plus, 2019, 134, 1.	2.6	17
83	Dynamical analysis for cylindrical geometry in non-minimally coupled $f(R,T)$ gravity. International Journal of Geometric Methods in Modern Physics, 2022, 19, .	2.0	17
84	Charged gravastars with cylindrical spacetime. Modern Physics Letters A, 2020, 35, 2050069.	1.2	16
85	Tilted shear-free axially symmetric fluids in $f(R)$ gravity. European Physical Journal Plus, 2019, 134, 1.	2.6	15
86	Locally isotropic gravastars with cylindrical spacetime. International Journal of Modern Physics D, 2019, 28, 1950123.	2.1	15
87	Stable charged radiating systems associated with tilted observers. European Physical Journal Plus, 2021, 136, 1.	2.6	15
88	Role of structure scalars on the evolution of compact objects in Palatini $f(R)$ gravity. Chinese Journal of Physics, 2021, 72, 18-37.	3.9	15
89	Hyperbolically symmetric sources in $f(R)$ gravity. Annals of Physics, 2022, 437, 168753.	2.8	15
90	Instability of a dissipative restricted non-static axial collapse with shear viscosity in $f(R)$ gravity. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 019-019.	5.4	14

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91	Axially and reflection symmetric systems and structure scalars in $f(R, T)$ gravity. Annals of Physics, 2021, 433, 168601.	2.8	14
92	Non-static charged complex structures in $f(\mathbb{G}, \mathbf{T}^2)$ gravity. European Physical Journal Plus, 2022, 137, 1.	2.6	14
93	Gravitational collapse in generalized teleparallel gravity. European Physical Journal Plus, 2017, 132, 1.	2.6	13
94	Some anisotropic planar stellar models. International Journal of Geometric Methods in Modern Physics, 2018, 15, 1850160.	2.0	13
95	Thermodynamics and glassy phase transition of regular black holes. Modern Physics Letters A, 2018, 33, 1850089.	1.2	13
96	Influence of $f(G)$ gravity on the complexity of relativistic self-gravitating fluids. International Journal of Modern Physics D, 2021, 30, .	2.1	13
97	Spherical collapse with heat dissipation in $f(R, T, R^{1/4} \hat{T}^{1/4})$ gravity. International Journal of Geometric Methods in Modern Physics, 2020, 17, 2050017.	2.0	12
98	Quasi static evolution of compact objects in modified gravity. General Relativity and Gravitation, 2022, 54, 1.	2.0	12
99	Circular motion and energy extraction in a rotating black hole. Physics of the Dark Universe, 2019, 24, 100263.	4.9	11
100	Dynamical instability of charged self-gravitating stars in modified gravity. Chinese Journal of Physics, 2021, 73, 115-135.	3.9	11
101	Gravastars in modified Gauss-Bonnet gravity. Chinese Journal of Physics, 2021, 73, 167-178.	3.9	11
102	Hyperbolically symmetric static charged cosmological fluid models. Monthly Notices of the Royal Astronomical Society, 2022, 510, 4100-4109.	4.4	11
103	Electromagnetic field and dark dynamical scalars for spherical systems. European Physical Journal Plus, 2019, 134, 1.	2.6	10
104	Role of quasi-homologous condition to study complex systems in $f(\mathbb{G}, T)$ gravity. European Physical Journal Plus, 2021, 136, 1.	2.6	10
105	Electrically charged string-like axially symmetric object composition in $f(R, \hat{T})$ gravity. Chinese Journal of Physics, 2021, 73, 493-502.	3.9	10
106	Electromagnetic field and quasi-homologous constraint for spherical fluids in $f(R, \hat{T})$ gravity. European Physical Journal Plus, 2021, 136, 1.	2.6	10
107	A Comprehensive Analysis of Hyperbolic Fluids in Modified Gravity. Entropy, 2022, 24, 150.	2.2	10
108	Role of $f(G)$ gravity in the study of non-static complex systems. Canadian Journal of Physics, 2022, 100, 185-192.	1.1	10

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109	Energy content of a collapsing sphere with $f(R)$ gravity. International Journal of Geometric Methods in Modern Physics, 2019, 16, 1950041.	2.0	9
110	Influence of electromagnetic field on hyperbolically symmetric source. European Physical Journal Plus, 2021, 136, 1.	2.6	9
111	Evolution of inhomogeneous LTB geometry with tilted congruence and modified gravity. Canadian Journal of Physics, 2017, 95, 1246-1252.	1.1	9
112	On the study of complexity for charged self-gravitating systems. Chinese Journal of Physics, 2022, , .	3.9	9
113	Hyperbolically symmetric sources, a comprehensive study in $f(T)$ gravity. European Physical Journal Plus, 2022, 137, 1.	2.6	9
114	Cosmic bounce with $\hat{\Lambda}(e^{\int \hat{a}^2 G / \hat{a}^2 + 2\hat{\Lambda}} T)$ model. Physica Scripta, 2022, 97, 055306.	2.5	9
115	Existence of dynamical wormholes in $f(R)$ gravity. Canadian Journal of Physics, 2020, 98, 474-483.	1.1	8
116	Quasi-homologous evolution of relativistic charged objects within $f(R)$ gravity. Chinese Journal of Physics, 2022, 77, 2168-2188.	3.9	8
117	Quasi-static approximation in the study of compact stars. Chinese Journal of Physics, 2022, 77, 2014-2027.	3.9	8
118	Bounds on higher derivative $f(R, \hat{a}^{-1}R, T)$ models from energy conditions. Modern Physics Letters A, 2019, 34, 1950082.	1.2	7
119	Gravitational collapse of a self-gravitating unidirectional fluid flow. New Astronomy, 2021, 84, 101533.	1.8	7
120	Information paradox for a collapsing string cloud in rainbow gravity. International Journal of Geometric Methods in Modern Physics, 2021, 18, 2150084.	2.0	7
121	Analysis of structure scalars in $f(R)$ gravity with an electric charge. Physica Scripta, 2021, 96, 115301.	2.5	7
122	Quasi-homologous evolution of relativistic stars. Annals of Physics, 2021, 432, 168570.	2.8	7
123	Charged gravastars in modified Gauss-Bonnet gravity. Modern Physics Letters A, 2021, 36, .	1.2	7
124	Cylindrical Gravastar Like-Structures in $f(G)$ Gravity. Galaxies, 2022, 10, 40.	3.0	7
125	Evolution of axially and reflection symmetric source in energy-momentum squared gravity. European Physical Journal Plus, 2022, 137, 1.	2.6	7
126	Dissipative collapse of cosmic structures in modified gravity. Chinese Journal of Physics, 2022, 78, 363-376.	3.9	7





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145	The second wave of desaturation in coronavirus disease 2019. <i>New Microbes and New Infections</i> , 2021, 41, 100866.	1.6	1
146	Electromagnetic field and spherically symmetric dissipative fluid models. <i>Pramana - Journal of Physics</i> , 2022, 96, .	1.5	1
147	Am a Poet of Workers and Peasants: Working-class Poets of Pakistan. <i>World Literature Today</i> , 2013, 87, 47.	0.0	0
148	Inflationary anisotropic phases with bianchi-I cosmic model. <i>New Astronomy</i> , 2021, 89, 101650.	1.8	0
149	Causes of Inhomogeneous Energy Density in Relativistic Fluids with $f(R)$ Background. , 2018, , .		0
150	Structure scalars and dissipative fluids in modified theory. <i>Chinese Journal of Physics</i> , 2022, , .	3.9	0
151	Structure scalars and an extension to LTB metric. <i>International Journal of Modern Physics D</i> , 0, , .	2.1	0