

# Mohsen Fathi

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3162496/publications.pdf>

Version: 2024-02-01

39  
papers

202  
citations

1040056

9  
h-index

1125743

13  
g-index

39  
all docs

39  
docs citations

39  
times ranked

104  
citing authors

#	ARTICLE	IF	CITATIONS
1	Gravitational Rutherford scattering of electrically charged particles from a charged Weyl black hole. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	10
2	Ergosphere, Photon Region Structure, and the Shadow of a Rotating Charged Weyl Black Hole. <i>Galaxies</i> , 2021, 9, 43.	3.0	10
3	Adiabatic analysis of the rotating BTZ black hole. <i>European Physical Journal C</i> , 2021, 81, 1.	3.9	6
4	Adiabatic evolution of Hayward black hole. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2021, 820, 136548.	4.1	6
5	Probing the parameters of a Schwarzschild black hole surrounded by quintessence and cloud of strings through four standard astrophysical tests. <i>European Physical Journal C</i> , 2021, 81, 1.	3.9	7
6	Analytical study of light ray trajectories in Kerr spacetime in the presence of an inhomogeneous anisotropic plasma. <i>European Physical Journal C</i> , 2021, 81, 1.	3.9	15
7	Motion of massive particles around a charged Weyl black hole and the geodetic precession of orbiting gyroscopes. <i>European Physical Journal C</i> , 2020, 80, 1.	3.9	12
8	Classical tests on a charged Weyl black hole: bending of light, Shapiro delay and Sagnac effect. <i>European Physical Journal C</i> , 2020, 80, 1.	3.9	11
9	Photon trajectories on a first order scale-dependent static BTZ black hole. <i>Classical and Quantum Gravity</i> , 2020, 37, 075004.	4.0	20
10	Homothetic congruences in general relativity. <i>Modern Physics Letters A</i> , 2019, 34, 1950001.	1.2	0
11	Congruence kinematics in conformal gravity. <i>Revista Mexicana De Física</i> , 2019, 65, 261-267.	0.4	0
12	Covariant kinematics of light in media and a generalized Raychaudhuri equation. <i>Physical Review D</i> , 2017, 96, .	4.7	4
13	Non-covariance and unfaithfulness in projective spacetime transformation optics. , 2017, , .		0
14	Focusing of world-lines in Weyl gravity. <i>European Physical Journal Plus</i> , 2016, 131, 1.	2.6	4
15	Evolving Hořava cosmological horizons. <i>Chinese Physics C</i> , 2016, 40, 095101.	3.7	0
16	Cartographic distortions make dielectric spacetime analog models imperfect mimickers. <i>Physical Review D</i> , 2016, 93, .	4.7	18
17	Gravitational collapse in repulsive $R + \mu^4 / R$ gravity. <i>European Physical Journal Plus</i> , 2016, 131, 1.	2.6	5
18	Massive Gravitons on Bohmian Congruences. <i>International Journal of Theoretical Physics</i> , 2016, 55, 3644-3656.	1.2	0

#	ARTICLE	IF	CITATIONS
19	Shrinking cloaks in expanding space-times: The role of coordinates and the meaning of transformations in transformation optics. <i>Physical Review A</i> , 2015, 92, .	2.5	14
20	Coordinate invariance in transformation optics. , 2015, , .		0
21	Cosmic Evolution of (Anti-)de Sitter Superfluids. <i>International Journal of Theoretical Physics</i> , 2015, 54, 1077-1084.	1.2	0
22	(Anti-)de Sitter Superfluid with Spherical Symmetry. <i>International Journal of Theoretical Physics</i> , 2015, 54, 538-544.	1.2	1
23	Surface configuration in $R + \hat{1}/4/R$ gravity. <i>Modern Physics Letters A</i> , 2015, 30, 1550171.	1.2	1
24	Dynamical Cosmological Constant in $R^3$ Gravity. <i>International Journal of Theoretical Physics</i> , 2015, 54, 1059-1065.	1.2	0
25	A dynamical approach to the exterior geometry of a perfect fluid as a relativistic star. <i>Chinese Physics C</i> , 2013, 37, 025101.	3.7	5
26	Energy Conservation for a Scalar Field in Linear Gravity. <i>International Journal of Theoretical Physics</i> , 2013, 52, 3150-3156.	1.2	0
27	Field Equations due to a Constant Modification in General Relativity. <i>International Journal of Theoretical Physics</i> , 2013, 52, 919-924.	1.2	3
28	Field Equations for a New $f(R)$ Model of Gravity, Related to Scalar Field Constituents. <i>International Journal of Theoretical Physics</i> , 2013, 52, 4519-4523.	1.2	3
29	Probing EoS and Correspondences to the Agegraphic Dark Energy Through a New $f(R)$ Model of Gravity. <i>International Journal of Theoretical Physics</i> , 2013, 52, 4562-4568.	1.2	2
30	Determination of the Effective Energy due to a Constant Modification in General Relativity. <i>International Journal of Theoretical Physics</i> , 2013, 52, 3467-3473.	1.2	1
31	Conformal Wave Equation for Graviton via Dimension Reduction. <i>International Journal of Theoretical Physics</i> , 2013, 52, 2400-2406.	1.2	0
32	Vacuum Domination in a Positively Curved Isotropic Universe. <i>International Journal of Theoretical Physics</i> , 2013, 52, 2284-2295.	1.2	3
33	Non-relativistic Geodesic Behaviors for a Massive Charged Particle Falling in de Sitter Spacetime. <i>International Journal of Theoretical Physics</i> , 2013, 52, 531-538.	1.2	1
34	Isotropic Reissner-Nordström Geometry and the Corresponding Gravitational Redshift. <i>International Journal of Theoretical Physics</i> , 2013, 52, 3313-3318.	1.2	4
35	A Modified Dark Energy Model and Quintessence. <i>International Journal of Theoretical Physics</i> , 2013, 52, 3886-3891.	1.2	1
36	A Krein quantization approach to Klein paradox. <i>Chinese Physics C</i> , 2013, 37, 113103.	3.7	3

#	ARTICLE	IF	CITATIONS
37	R2theory of gravity. Journal of Physics: Conference Series, 2013, 442, 012053.	0.4	0
38	Spherical Solutions due to the Exterior Geometry of a Charged Weyl Black Hole. International Journal of Theoretical Physics, 2012, 51, 2227-2236.	1.2	15
39	OBSERVABLE QUANTITIES IN WEYL GRAVITY. Modern Physics Letters A, 2011, 26, 2403-2410.	1.2	17