

Martin KoloÅ¡

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

1,066
citations

430874

18
h-index

526287

27
g-index

27
all docs

27
docs citations

27
times ranked

275
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of Cosmic Repulsion and Magnetic Fields on Accretion Disks Rotating around Kerr Black Holes. <i>Universe</i> , 2020, 6, 26.	2.5	138
2	Acceleration of the charged particles due to chaotic scattering in the combined black hole gravitational field and asymptotically uniform magnetic field. <i>European Physical Journal C</i> , 2016, 76, 1.	3.9	114
3	Quasi-harmonic oscillatory motion of charged particles around a Schwarzschild black hole immersed in a uniform magnetic field. <i>Classical and Quantum Gravity</i> , 2015, 32, 165009.	4.0	111
4	Circular orbits and related quasiharmonic oscillatory motion of charged particles around weakly magnetized rotating black holes. <i>Physical Review D</i> , 2016, 93, .	4.7	106
5	Possible signature of the magnetic fields related to quasi-periodic oscillations observed in microquasars. <i>European Physical Journal C</i> , 2017, 77, 1.	3.9	86
6	Supermassive Black Holes as Possible Sources of Ultrahigh-energy Cosmic Rays. <i>Astrophysical Journal</i> , 2020, 895, 14.	4.5	56
7	Radiation Reaction of Charged Particles Orbiting a Magnetized Schwarzschild Black Hole. <i>Astrophysical Journal</i> , 2018, 861, 2.	4.5	46
8	Models of quasi-periodic oscillations related to mass and spin of the GRO J1655-40 black hole. <i>Astronomy and Astrophysics</i> , 2016, 586, A130.	5.1	45
9	Acceleration of particles in spacetimes of black string. <i>Physical Review D</i> , 2013, 88, .	4.7	42
10	Determination of chaotic behaviour in time series generated by charged particle motion around magnetized Schwarzschild black holes. <i>European Physical Journal C</i> , 2019, 79, 1.	3.9	42
11	Charged and magnetized particles motion in the field of generic singular black holes governed by general relativity coupled to nonlinear electrodynamics. <i>Physical Review D</i> , 2020, 101, .	4.7	32
12	Radiative Penrose process: Energy gain by a single radiating charged particle in the ergosphere of rotating black hole. <i>Physical Review D</i> , 2021, 103, .	4.7	29
13	Effect of Electromagnetic Interaction on Galactic Center Flare Components. <i>Astrophysical Journal</i> , 2020, 897, 99.	4.5	28
14	Penrose Process: Its Variants and Astrophysical Applications. <i>Universe</i> , 2021, 7, 416.	2.5	27
15	CONTROVERSY OF THE GRO J1655-40 BLACK HOLE MASS AND SPIN ESTIMATES AND ITS POSSIBLE SOLUTIONS. <i>Astrophysical Journal</i> , 2016, 825, 13.	4.5	22
16	Mass of intermediate black hole in the source M82 X-1 restricted by models of twin high-frequency quasi-periodic oscillations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 451, 2575-2588.	4.4	21
17	Axially symmetric and static solutions of Einstein equations with self-gravitating scalar field. <i>Physical Review D</i> , 2018, 98, .	4.7	20
18	Quasi-periodic oscillations around Kerr-MOG black holes. <i>European Physical Journal C</i> , 2020, 80, 1.	3.9	20

#	ARTICLE	IF	CITATIONS
19	Dynamics of an electric current-carrying string loop near a Schwarzschild black hole embedded in an external magnetic field. <i>Physical Review D</i> , 2013, 87, .	4.7	18
20	Electric Penrose process: High-energy acceleration of ionized particles by nonrotating weakly charged black hole. <i>Physical Review D</i> , 2021, 104, .	4.7	14
21	Constraints on Mass, Spin and Magnetic Field of Microquasar H 1743-322 from Observations of QPOs. <i>Physics of Atomic Nuclei</i> , 2018, 81, 279-282.	0.4	13
22	Acceleration of electric current-carrying string loop near a Schwarzschild black hole immersed in an asymptotically uniform magnetic field. <i>Physical Review D</i> , 2014, 90, .	4.7	12
23	Magnetized Black Holes: Ionized Keplerian Disks and Acceleration of Ultra-High Energy Particles. <i>Proceedings (mdpi)</i> , 2019, 17, .	0.2	7
24	Charged string loops in Reissner-Nordström black hole background. <i>European Physical Journal C</i> , 2018, 78, 1.	3.9	5
25	Epicyclic oscillations in spinning particle motion around Kerr black hole applied in models fitting the quasi-periodic oscillations observed in microquasars and AGNs. <i>European Physical Journal C</i> , 2021, 81, 1.	3.9	5
26	Testing alternative theories of gravity by fitting the hot-spot data of Sgr A*. <i>European Physical Journal C</i> , 2022, 82, 1.	3.9	5
27	Constraints on Cosmic Ray Acceleration Capabilities of Black Holes in X-ray Binaries and Active Galactic Nuclei. <i>Symmetry</i> , 2022, 14, 482.	2.2	2