

Oleg Yu Tsupko

List of Publications by Year in descending order

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34
papers

1,483
citations

394421

19
h-index

434195

31
g-index

34
all docs

34
docs citations

34
times ranked

393
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of a plasma on the shadow of a spherically symmetric black hole. <i>Physical Review D</i> , 2015, 92, .	4.7	210
2	Calculating black hole shadows: Review of analytical studies. <i>Physics Reports</i> , 2022, 947, 1-39.	25.6	172
3	Black hole shadow in an expanding universe with a cosmological constant. <i>Physical Review D</i> , 2018, 97, .	4.7	125
4	Light propagation in a plasma on Kerr spacetime: Separation of the Hamilton-Jacobi equation and calculation of the shadow. <i>Physical Review D</i> , 2017, 95, .	4.7	116
5	Gravitational Lensing in Presence of Plasma: Strong Lens Systems, Black Hole Lensing and Shadow. <i>Universe</i> , 2017, 3, 57.	2.5	88
6	Innermost stable circular orbits of spinning test particles in Schwarzschild and Kerr space-times. <i>Physical Review D</i> , 2015, 91, .	4.7	74
7	Gravitational lensing in a non-uniform plasma. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, , no-no.	4.4	69
8	Gravitational lensing in plasmic medium. <i>Plasma Physics Reports</i> , 2015, 41, 562-581.	0.9	66
9	Shadow of a black hole at cosmological distances. <i>Physical Review D</i> , 2018, 98, .	4.7	65
10	Gravitational lensing in plasma: Relativistic images at homogeneous plasma. <i>Physical Review D</i> , 2013, 87, .	4.7	59
11	Analytical calculation of black hole spin using deformation of the shadow. <i>Physical Review D</i> , 2017, 95, .	4.7	59
12	Gravitational radiospectrometer. <i>Gravitation and Cosmology</i> , 2009, 15, 20-27.	1.1	51
13	Strong gravitational lensing by Schwarzschild black holes. <i>Astrophysics</i> , 2008, 51, 99-111.	0.5	48
14	Black hole shadow as a <i>standard ruler</i> in cosmology. <i>Classical and Quantum Gravity</i> , 2020, 37, 065016.	4.0	43
15	Unbound motion of massive particles in the Schwarzschild metric: Analytical description in case of strong deflection. <i>Physical Review D</i> , 2014, 89, .	4.7	31
16	On gravitational lensing in the presence of a plasma. <i>Gravitation and Cosmology</i> , 2012, 18, 117-121.	1.1	30
17	Gravitational lensing in the presence of plasmas and strong gravitational fields. <i>Gravitation and Cosmology</i> , 2014, 20, 220-225.	1.1	29
18	First analytical calculation of black hole shadow in McVittie metric. <i>International Journal of Modern Physics D</i> , 2020, 29, 2050062.	2.1	24

#	ARTICLE	IF	CITATIONS
19	Analytical study of higher-order ring images of the accretion disk around a black hole. <i>Physical Review D</i> , 2022, 105, .	4.7	24
20	Relativistic rings due to Schwarzschild gravitational lensing. <i>Gravitation and Cosmology</i> , 2009, 15, 184-187.	1.1	19
21	Hills and holes in the microlensing light curve due to plasma environment around gravitational lens. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 491, 5636-5649.	4.4	16
22	Deflection of light rays by a spherically symmetric black hole in a dispersive medium. <i>Physical Review D</i> , 2021, 103, .	4.7	14
23	Dynamic stabilization of non-spherical bodies against unlimited collapse. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 386, 1398-1403.	4.4	9
24	Approximate dynamics of dark matter ellipsoids. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005, 364, 833-842.	4.4	8
25	Parameters of innermost stable circular orbits of spinning test particles: Numerical and analytical calculations. <i>Gravitation and Cosmology</i> , 2016, 22, 138-147.	1.1	8
26	Gravitational lensing by gravitational waves. <i>Gravitation and Cosmology</i> , 2008, 14, 226-229.	1.1	6
27	Notes on analytical treatment of black hole shadow. <i>International Journal of Modern Physics D</i> , 2018, 27, 1844020.	2.1	5
28	An examination of geometrical and potential time delays in gravitational lensing. <i>Classical and Quantum Gravity</i> , 2020, 37, 205017.	4.0	5
29	Dynamical chaos in the problem of magnetic jet collimation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, , no-no.	4.4	4
30	Regular and chaotic dynamics of non-spherical bodies. Zeldovich's pancakes and emission of very long gravitational waves. <i>Journal of Plasma Physics</i> , 2015, 81, .	2.1	4
31	Primordial black hole: Mass and angular momentum evolution. <i>Gravitation and Cosmology</i> , 2008, 14, 173-175.	1.1	2
32	Evolution of the angular momentum of primordial black holes in a hot universe. <i>Astrophysics</i> , 2007, 50, 544-547.	0.5	0
33	Dynamic stability of nonspherical bodies. <i>Physics of Atomic Nuclei</i> , 2009, 72, 1553-1556.	0.4	0
34	MAGNETO-PLASMA PROCESSES IN RELATIVISTIC ASTROPHYSICS: MODERN DEVELOPMENTS. <i>International Journal of Modern Physics D</i> , 2013, 22, 1330016.	2.1	0