Lorenzo Iorio

List of Publications by Year
in descending order

231 papers	4,510 citations	101543 36 h-index	182427 51 g-index
235 all docs	235 docs citations	235 times ranked	1481 citing authors

#	Article	IF	Citations
1	Solar system constraints on<i>f</i>(<i>T</i>) gravity. Monthly Notices of the Royal Astronomical Society, 2012, 427, 1555-1561.	4.4	199
2	Phenomenology of the Lense-Thirring effect in the solar system. Astrophysics and Space Science, 2011, 331, 351-395.	1.4	173
3	Editorial for the Special Issue 100 Years of Chronogeometrodynamics: The Status of the Einsteinâ€™s Theory of Gravitation in Its Centennial Year. Universe, 2015, 1, 38-81.	2.5	119
4	Einstein Gravity Explorerâ€“a medium-class fundamental physics mission. Experimental Astronomy, 2009, 23, 573-610.	3.7	95
5	Gravitational anomalies in the solar system?. International Journal of Modern Physics D, 2015, 24, 1530015.	2.1	85
6	Perturbed stellar motions around the rotating black hole in Sgr<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi mathvariant="normal">A</mml:mi><mml:mo>*</mml:mo></mml:msup></mml:math>for a generic orientation of its spin axis. Physical Review D, 2011, 84, .	4.7	65
7	Constraints on the location of a putative distant massive body in the Solar System from recent planetary data. Celestial Mechanics and Dynamical Astronomy, 2012, 112, 117-130.	1.4	62
8	THE RECENTLY DETERMINED ANOMALOUS PERIHELION PRECESSION OF SATURN. Astronomical Journal, 2009, 137, 3615-3618.	4.7	60
9	Constraining<i>f</i>(<i>T</i>) gravity in the Solar System. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 021-021.	5.4	60
10	Constraining the Angular Momentum of the Sun with Planetary Orbital Motions and General Relativity. Solar Physics, 2012, 281, 815-826.	2.5	59
11	Solar System planetary orbital motions andf(R) theories of gravity. Journal of Cosmology and Astroparticle Physics, 2007, 2007, 010-010.	5.4	58
12	On the anomalous secular increase of the eccentricity of the orbit of the Moon. Monthly Notices of the Royal Astronomical Society, 2011, 415, 1266-1275.	4.4	58
13	A note on the evidence of the gravitomagnetic field of Mars. Classical and Quantum Gravity, 2006, 23, 5451-5454.	4.0	55
14	On the gravitomagnetic clock effect. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 292, 49-57.	2.1	54
15	Title is missing!. Celestial Mechanics and Dynamical Astronomy, 2003, 86, 277-294.	1.4	51
16	Classical and relativistic long-term time variations of some observables for transiting exoplanets. Monthly Notices of the Royal Astronomical Society, 2011, 411, 167-183.	4.4	51
17	General relativistic spin-orbit and spinâ€“spin effects on the motion of rotating particles in an external gravitational field. General Relativity and Gravitation, 2012, 44, 719-736.	2.0	51
18	Novel considerations about the error budget of the LAGEOS-based tests of frame-dragging with GRACE geopotential models. Acta Astronautica, 2013, 91, 141-148.	3.2	51

#	Article	IF	Citations
19	On the possibility of measuring the solar oblateness and some relativistic effects from planetary ranging. Astronomy and Astrophysics, 2005, 433, 385-393.	5.1	49
20	What do the orbital motions of the outer planets of the Solar System tell us about the Pioneer anomaly?. New Astronomy, 2006, 11, 600-607.	1.8	49
21	An Assessment of the Systematic Uncertainty in Present and Future Tests of the Lense-Thirring Effect withÂSatellite Laser Ranging. Space Science Reviews, 2009, 148, 363-381.	8.1	49
22	Orbital effects of Lorentz-violating standard model extension gravitomagnetism around a static body: a sensitivity analysis. Classical and Quantum Gravity, 2012, 29, 175007.	4.0	49
23	Planet X revamped after the discovery of the Sedna-like object 2012 VP113?. Monthly Notices of the Royal Astronomical Society: Letters, 2014, 444, L78-L79.	3.3	48
24	CAN SOLAR SYSTEM OBSERVATIONS TELL US SOMETHING ABOUT THE COSMOLOGICAL CONSTANT?. International Journal of Modern Physics D, 2006, 15, 473-475.	2.1	47
25	Is it possible to measure the Lense-Thirring effect on the orbits of the planets in the gravitational field of the Sun?. Astronomy and Astrophysics, 2005, 431, 385-389.	5.1	45
26	Constraining the electric charges of some astronomical bodies in Reissnerâ€"NordstrÃ¶m spacetimes and generic r â^'2-type power-law potentials from orbital motions. General Relativity and Gravitation, 2012, 44, 1753-1767.	2.0	45
27	Are we far from testing general relativity with the transitting extrasolar planet HD 209458b â€˜Osirisâ€™?. New Astronomy, 2006, 11, 490-494.	1.8	44
28	Earth Tides and Lenseâ€"Thirring Effect. Celestial Mechanics and Dynamical Astronomy, 2001, 79, 201-230.	1.4	43
29	Long-term classical and general relativistic effects on the radial velocities of the stars orbiting Sgr A*. Monthly Notices of the Royal Astronomical Society, 2011, 411, 453-463.	4.4	43
30	Constraints on a Yukawa gravitational potential from laser data of LAGEOS satellites. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 298, 315-318.	2.1	40
31	The Impact of the New Earth Gravity Models on the Measurement of the Lenseâ€"Thirring Effect. General Relativity and Gravitation, 2004, 36, 1321-1333.	2.0	40
32	Accurate characterization of the stellar and orbital parameters of the exoplanetary system WASP-33 b from orbital dynamics. Monthly Notices of the Royal Astronomical Society, 2016, 455, 207-213.	4.4	39
33	Constraining the Kehagias-Sfetsos Solution of the Ho!ava-Lifshitz Modified Gravity with Extrasolar Planets. The Open Astronomy Journal, 2010, 3, 167-171.	1.6	38
34	The LARES mission revisited: an alternative scenario. Classical and Quantum Gravity, 2002, 19, 4311-4325.	4.0	37
35	On the reliability of the so-far performed tests for measuring the Lenseâ€"Thirring effect with the LAGEOS satellites. New Astronomy, 2005, 10, 603-615.	1.8	37
36	Can the Pioneer Anomaly be of Gravitational Origin? A Phenomenological Answer. Foundations of Physics, 2007, 37, 897-918.	1.3	37

#	Article	IF	Citations
37	Solar System Motions and the Cosmological Constant:<?layout cmd="newline"?>A New Approach. Advances in Astronomy, 2008, 2008, 1-5.	1.1	37
38	Constraints on Galileon-induced precessions from solar system orbital motions. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 001-001.	5.4	37
39	CONSTRAINING THE PREFERRED-FRAME Î±1, Î±2 PARAMETERS FROM SOLAR SYSTEM PLANETARY PRECESSIONS. International Journal of Modern Physics D, 2014, 23, 1450006.	2.1	37
40	The impact of the new Earth gravity models on the measurement of the Lenseâ€“Thirring effect with a new satellite. New Astronomy, 2005, 10, 616-635.	1.8	36
41	Constraints on the range Î» of Yukawa-like modifications to the Newtonian inverse-square law of gravitation from Solar System planetary motions. Journal of High Energy Physics, 2007, 2007, 041-041.	4.7	36
42	First preliminary tests of the general relativistic gravitomagnetic field of the Sun and new constraints on a Yukawa-like fifth force from planetary data. Planetary and Space Science, 2007, 55, 1290-1298.	1.7	36
43	On the effects of Dvaliâ€“Gabadadzeâ€“Porrati braneworld gravity on the orbital motion of a test particle. Classical and Quantum Gravity, 2005, 22, 5271-5281.	4.0	35
44	A Critical Analysis of a Recent Test of the Lenseâ€“Thirring Effect with the LAGEOS Satellites. Journal of Geodesy, 2006, 80, 128-136.	3.6	35
45	Phenomenological constraints on accretion of non-annihilating dark matter on the PSR B1257+12 pulsar from orbital dynamics of its planets. Journal of Cosmology and Astroparticle Physics, 2010, 2010, 046-046.	5.4	35
46	Secular increase of the astronomical unit and perihelion precessions as tests of the Dvaliâ€“Gabadadzeâ€“Porrati multi-dimensional braneworld scenario. Journal of Cosmology and Astroparticle Physics, 2005, 2005, 006-006.	5.4	33
47	Constraints on planet X/Nemesis from Solar System's inner dynamics. Monthly Notices of the Royal Astronomical Society, 2009, 400, 346-353.	4.4	33
48	Classical and relativistic node precessional effects in WASP-33b and perspectives for detecting them. Astrophysics and Space Science, 2011, 331, 485-496.	1.4	33
49	Measuring the relativistic perigee advance with satellite laser ranging. Classical and Quantum Gravity, 2002, 19, 4301-4309.	4.0	32
50	OPTISâ€"An Einstein Mission for Improved Tests of Special and General Relativity. General Relativity and Gravitation, 2004, 36, 2373-2416.	2.0	32
51	PHENOMENOLOGICAL CONSTRAINTS ON THE KEHAGIASâ€“SFETSOS SOLUTION IN THE HOÅ˜AVAâ€“LIFSHITZ GRAVITY FROM SOLAR SYSTEM ORBITAL MOTIONS. International Journal of Modern Physics A, 2010, 25, 5399-5408.	1.5	32
52	Juno, the angular momentum of Jupiter and the Lenseâ€“Thirring effect. New Astronomy, 2010, 15, 554-560.	1.8	30
53	AN EMPIRICAL EXPLANATION OF THE ANOMALOUS INCREASES IN THE ASTRONOMICAL UNIT AND THE LUNAR ECCENTRICITY. Astronomical Journal, 2011, 142, 68.	4.7	30
54	A Closer Earth and the Faint Young Sun Paradox: Modification of the Laws of Gravitation or Sun/Earth Mass Losses?. Galaxies, 2013, 1, 192-209.	3.0	30

#	Article	IF	Citations
55	Constraining the Schwarzschildâ€“de Sitter solution in models of modified gravity. Physics of the Dark Universe, 2016, 13, 111-120.	4.9	30
56	An alternative derivation of the gravitomagnetic clock effect. Classical and Quantum Gravity, 2002, 19, 39-49.	4.0	29
57	Solar system planetary orbital motions and dark matter. Journal of Cosmology and Astroparticle Physics, 2006, 2006, 002-002.	5.4	29
58	On the possibility of measuring the Lenseâ€“Thirring effect with a LAGEOSâ€“LAGEOS IIâ€“OPTIS mission. Classical and Quantum Gravity, 2004, 21, 2139-2151.	4.0	28
59	Preliminary bounds of the gravitational local position invariance from Solar system planetary precessions. Monthly Notices of the Royal Astronomical Society, 2014, 437, 3482-3489.	4.4	28
60	Orbital effects of non-isotropic mass depletion of the atmospheres of evaporating hot Jupiters in extrasolar systems. New Astronomy, 2012, 17, 356-361.	1.8	27
61	THE IMPACT OF TIDAL ERRORS ON THE DETERMINATION OF THE LENSEâ€“THIRRING EFFECT FROM SATELLITE LASER RANGING. International Journal of Modern Physics D, 2002, 11, 599-618.	2.1	26
62	Exact Expressions for the Pericenter Precession Caused by Some Dark Matter Distributions and Constraints on Them from Orbital Motions in the Solar System, in the Double Pulsar and in the Galactic Center. Galaxies, 2013, 1, 6-30.	3.0	26
63	The Perihelion Precession of Saturn, Planet X/Nemesis and MOND~!2009-09-17~!2009-10-08~!2010-05-05~!. The Open Astronomy Journal, 2010, 3, 1-6.	1.6	26
64	On the possibility of measuring the gravitomagnetic clock effect in an Earth space-based experiment. Classical and Quantum Gravity, 2005, 22, 119-132.	4.0	25
65	Constraints from orbital motions around the Earth of the environmental fifth-force hypothesis for the OPERA superluminal neutrino phenomenology. Journal of High Energy Physics, 2012, 2012, 1.	4.7	25
66	A possible new test of general relativity with Juno. Classical and Quantum Gravity, 2013, 30, 195011.	4.0	25
67	Post-Keplerian effects on radial velocity in binary systems and the possibility of measuring General Relativity with the star S2 in 2018. Monthly Notices of the Royal Astronomical Society, 2017, 472, 2249-2262.	4.4	25
68	Some considerations on the present-day results for the detection of frame-dragging after the final outcome of GP-B. Europhysics Letters, 2011, 96, 30001.	2.0	24
69	Dynamical determination of the mass of the Kuiper Belt from motions of the inner planets of the Solar system. Monthly Notices of the Royal Astronomical Society, 2007, 375, 1311-1314.	4.4	23
70	Effect of sun and planet-bound dark matter on planet and satellite dynamics in the solar system. Journal of Cosmology and Astroparticle Physics, 2010, 2010, 018-018.	5.4	23
71	ON THE NEWTONIAN AND SPIN-INDUCED PERTURBATIONS FELT BY THE STARS ORBITING AROUND THE MASSIVE BLACK HOLE IN THE GALACTIC CENTER. Astrophysical Journal, 2017, 834, 198.	4.5	23
72	SATELLITE GRAVITATIONAL ORBITAL PERTURBATIONS AND THE GRAVITOMAGNETIC CLOCK EFFECT. International Journal of Modern Physics D, 2001, 10, 465-476.	2.1	22

#	Article	IF	Citations
73	The gravitomagnetic clock effect and its possible observation. Annalen Der Physik, 2006, 15, 868-876.	2.4	22
74	â€œGalileo Galileiâ€•(GG) a small satellite to test the equivalence principle of Galileo, Newton and Einstein. Experimental Astronomy, 2009, 23, 689-710.	3.7	22
75	Constraining the relative inclinations of the planets B and C of the millisecond pulsar PSR B1257+12. Journal of Astrophysics and Astronomy, 2010, 31, 147-153.	1.0	22
76	Will the recently approved LARES mission be able to measure the Lenseâ€“Thirring effect at 1%?. General Relativity and Gravitation, 2009, 41, 1717-1724.	2.0	21
77	HOÅ˜AVAâ€“LIFSHITZ GRAVITY: TIGHTER CONSTRAINTS FOR THE KEHAGIASâ€“SFETSOS SOLUTION FROM NEW SOLAR SYSTEM DATA. International Journal of Modern Physics D, 2011, 20, 1079-1093.	2.1	21
78	Impact of a Pioneer/Rindler-type acceleration on the Oort Cloud. Monthly Notices of the Royal Astronomical Society, 2012, 419, 2226-2232.	4.4	21
79	Post-Newtonian direct and mixed orbital effects due to the oblateness of the central body. International Journal of Modern Physics D, 2015, 24, 1550067.	2.1	21
80	The post-Newtonian mean anomaly advance as further post-Keplerian parameter in pulsar binary systems. Astrophysics and Space Science, 2007, 312, 331-335.	1.4	20
81	Astronomical Constraints on Some Long-Range Models of Modified Gravity. Advances in High Energy Physics, 2007, 2007, 1-9.	1.1	20
82	Satellite non-gravitational orbital perturbations and the detection of the gravitomagnetic clock effect. Classical and Quantum Gravity, 2001, 18, 4303-4310.	4.0	19
83	On the Lense-Thirring test with the Mars Global Surveyor in the gravitational field of Mars. Open Physics, 2010, 8, .	1.7	19
84	Constraining the cosmological constant and the DGP gravity with the double pulsar PSR J0737-3039. New Astronomy, 2009, 14, 196-199.	1.8	18
85	Constraints on a MOND effect for isolated aspherical systems in the deep Newtonian regime from orbital motions. Classical and Quantum Gravity, 2013, 30, 165018.	4.0	18
86	On the Post-Keplerian Corrections to the Orbital Periods of a Two-body System and Their Application to the Galactic Center. Astrophysical Journal, 2017, 839, 3.	4.5	18
87	An assessment of the measurement of the Lenseâ€“Thirring effect in the Earth gravity field, in reply to: â€œOn the measurement of the Lenseâ€“Thirring effect using the nodes of the LAGEOS satellites, in reply to â€œOn the reliability of the so far performed tests for measuring the Lenseâ€“Thirring effect with the LAGEOS satellitesâ€•by L. Iorio,â€•by I. Ciufolini and E. Pavlis. Planetary and Space Science, 2007, 55, 503-511.	1.7	17
88	CAN THE PIONEER ANOMALY BE INDUCED BY VELOCITY-DEPENDENT FORCES? TESTS IN THE OUTER REGIONS OF THE SOLAR SYSTEM WITH PLANETARY DYNAMICS. International Journal of Modern Physics D, 2009, 18, 947-958.	2.1	17
89	A critical approach to the concept of a polar, low-altitude LARES satellite. Classical and Quantum Gravity, 2002, 19, L175-L183.	4.0	16
90	On the possibility of testing the Dvaliâ€“Gabadadzeâ€“Porrati brane-world scenario with orbital motions in the Solar System. Journal of Cosmology and Astroparticle Physics, 2005, 2005, 008-008.	5.4	16

#	Article	IF	Citations
91	Model-independent constraints on r-3 extra-interactions from orbital motions. Annalen Der Physik, 2012, 524, 371-377.	2.4	16
92	Modified theories of gravity with nonminimal coupling and orbital particle dynamics. Classical and Quantum Gravity, 2014, 31, 085003.	4.0	16
93	Is it possible to improve the present LAGEOSÂLAGEOS II LenseÂThirring experiment?. Classical and Quantum Gravity, 2002, 19, 5473-5480.	4.0	15
94	CONSTRAINING MODELS OF MODIFIED GRAVITY WITH THE DOUBLE PULSAR PSR J0737-3039A/B SYSTEM. International Journal of Modern Physics A, 2007, 22, 5379-5389.	1.5	15
95	Dynamical determination of the quadrupole mass moment of a white dwarf. Astrophysics and Space Science, 2007, 310, 73-76.	1.4	15
96	Dynamical constraints on some orbital and physical properties of the WD0137-349A/B binary system. Astrophysics and Space Science, 2007, 312, 337-341.	1.4	15
97	Preliminary constraints on the location of the recently hypothesized new planet of the Solar System from planetary orbital dynamics. Astrophysics and Space Science, 2017, 362, 1.	1.4	15
98	Post-Keplerian perturbations of the orbital time shift in binary pulsars: an analytical formulation with applications to the galactic center. European Physical Journal C, 2017, 77, 1.	3.9	15
99	Probing a<i>r</i>^{â^’<i>n</i>}modification of the Newtonian potential with exoplanets. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 042-042.	5.4	15
100	LAGEOS-type satellites in critical supplementary orbit configuration and the Lenseâ€“Thirring effect detection. Classical and Quantum Gravity, 2003, 20, 2477-2490.	4.0	14
101	An Analytical Treatment of the Clock Paradox in the Framework of the Special and General Theories of Relativity. Foundations of Physics Letters, 2005, 18, 1-19.	0.6	14
102	Prospects for measuring the moment of inertia of pulsar J0737-3039A. New Astronomy, 2009, 14, 40-43.	1.8	14
103	Solar system constraints on a Rindler-type extra-acceleration from modified gravity at large distances. Journal of Cosmology and Astroparticle Physics, 2011, 2011, 019-019.	5.4	14
104	Orbital motions as gradiometers for post-Newtonian tidal effects. Frontiers in Astronomy and Space Sciences, 2014, 1, .	2.8	14
105	A flyby anomaly for Juno? Not from standard physics. Advances in Space Research, 2014, 54, 2441-2445.	2.6	14
106	Perspectives on Constraining a Cosmological Constant-Type Parameter with Pulsar Timing in the Galactic Center. Universe, 2018, 4, 59.	2.5	14
107	Calculation of the Uncertainties in the Planetary Precessions with the Recent EPM2017 Ephemerides and their Use in Fundamental Physics and Beyond. Astronomical Journal, 2019, 157, 220.	4.7	14
108	The Effect of General Relativity on Hyperbolic Orbits and Its Application to the Flyby Anomaly. Scholarly Research Exchange, 2009, 2009, 1-8.	0.2	14

#	Article	IF	Citations
109	Galactic orbital motions in the dark matter, modified Newtonian dynamics and modified gravity scenarios. Monthly Notices of the Royal Astronomical Society, 2010, 401, 2012-2020.	4.4	13
110	Local cosmological effects of the order of H in the orbital motion of a binary system. Monthly Notices of the Royal Astronomical Society, 2013, 429, 915-922.	4.4	13
111	Post-Keplerian corrections to the orbital periods of a two-body system and their measurability. Monthly Notices of the Royal Astronomical Society, 2016, 460, 2445-2452.	4.4	13
112	Does Newtonâ€™s gravitational constant vary sinusoidally with time? Orbital motions say no. Classical and Quantum Gravity, 2016, 33, 045004.	4.0	13
113	A comment on â€œA test of general relativity using the LARES and LAGEOS satellites and a GRACE Earth gravity modelâ€, by I. Ciufolini et al.. European Physical Journal C, 2017, 77, 1.	3.9	13
114	On the MOND external field effect in the solar system. Astrophysics and Space Science, 2009, 323, 215-219.	1.4	12
115	Towards a 1% measurement of the Lense-Thirring effect with LARES?. Advances in Space Research, 2009, 43, 1148-1157.	2.6	12
116	Dynamical orbital effects of general relativity on the satellite-to-satellite range and range-rate in the GRACE mission: A sensitivity analysis. Advances in Space Research, 2012, 50, 334-345.	2.6	12
117	Orbital Perturbations Due to Massive Rings. Earth, Moon and Planets, 2012, 108, 189-217.	0.6	12
118	Perspectives on effectively constraining the location of a massive trans-Plutonian object with the New Horizons spacecraft: a sensitivity analysis. Celestial Mechanics and Dynamical Astronomy, 2013, 116, 357-366.	1.4	12
119	Analytically calculated post-Keplerian range and range-rate perturbations: the solar Lenseâ€“Thirring effect and BepiColombo. Monthly Notices of the Royal Astronomical Society, 2018, 476, 1811-1825.	4.4	12
120	A new proposal for measuring the Lenseâ€“Thirring effect with a pair of supplementary satellites in the gravitational field of the Earth. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 308, 81-84.	2.1	11
121	Conservative evaluation of the uncertainty in the LAGEOS-LAGEOS II Lense-Thirring test. Open Physics, 2010, 8, .	1.7	11
122	How accurate is the cancelation of the first even zonal harmonic of the geopotential in the present and future LAGEOS-based Lense-Thirring tests?. General Relativity and Gravitation, 2011, 43, 1697-1706.	2.0	11
123	Revisiting the 2PN Pericenter Precession in View of Possible Future Measurements. Universe, 2020, 6, 53.	2.5	11
124	A GRAVITOMAGNETIC EFFECT ON THE ORBIT OF A TEST BODY DUE TO THE EARTH'S VARIABLE ANGULAR MOMENTUM. International Journal of Modern Physics D, 2002, 11, 781-787.	2.1	10
125	On a New Observable for Measuring the Lenseâ€“Thirring Effect with Satellite Laser Ranging. General Relativity and Gravitation, 2003, 35, 1583-1595.	2.0	10
126	THE LENSEâ€“THIRRING EFFECT IN THE JOVIAN SYSTEM OF THE GALILEAN SATELLITES AND ITS MEASURABILITY. International Journal of Modern Physics D, 2005, 14, 2039-2049.	2.1	10

#	Article	IF	Citations
127	On the orbital and physical parameters ofÂtheÂHDEÂ226868/Cygnus X-1 binary system. Astrophysics and Space Science, 2008, 315, 335-340.	1.4	10
128	A comment on â€˜Lenseâ€“Thirring frame dragging induced by a fast-rotating white dwarf in a binary pulsar systemâ€™ by V. Venkatraman Krishnan etÂal.. Monthly Notices of the Royal Astronomical Society, 2020, 495, 2777-2785.	4.4	10
129	MOND Orbits in the Oort Cloud. The Open Astronomy Journal, 2010, 3, 156-166.	1.6	10
130	LARES/WEBER-SAT and the equivalence principle. Europhysics Letters, 2007, 80, 40007.	2.0	9
131	A comment on the paper â€œOn the orbit of the LARES satelliteâ€, by I. Ciufolini. Planetary and Space Science, 2007, 55, 1198-1200.	1.7	9
132	Gravitomagnetic effects in Kerr-de Sitter space-time. Journal of Cosmology and Astroparticle Physics, 2009, 2009, 024-024.	5.4	9
133	EFFECTS OF STANDARD AND MODIFIED GRAVITY ON INTERPLANETARY RANGES. International Journal of Modern Physics D, 2011, 20, 181-232.	2.1	9
134	ORBITAL EFFECTS OF A TIME-DEPENDENT PIONEER-LIKE ANOMALOUS ACCELERATION. Modern Physics Letters A, 2012, 27, 1250071.	1.2	9
135	The Lingering Anomalous Secular Increase of the Eccentricity of the Orbit of the Moon: Further Attempts of Explanations of Cosmological Origin. Galaxies, 2014, 2, 259-262.	3.0	9
136	The post-Newtonian gravitomagnetic spin-octupole moment of an oblate rotating body and its effects on an orbiting test particle; are they measurable in the Solar system?. Monthly Notices of the Royal Astronomical Society, 2019, 484, 4811-4832.	4.4	9
137	On the 2PN Pericentre Precession in the General Theory of Relativity and the Recently Discovered Fast-Orbiting S-Stars in Sgr A*. Universe, 2021, 7, 37.	2.5	9
138	Putting Yukawa-Like Modified Gravity (MOG) on the Test in the Solar System. Scholarly Research Exchange, 2008, 2008, 1-4.	0.2	9
139	Solar System Tests of Some Models of Modified Gravity Proposed to Explain Galactic Rotation Curves without Dark Matter. Scholarly Research Exchange, 2008, 2008, 1-7.	0.2	9
140	The Short-period S-stars S4711, S62, S4714 and the Lenseâ€“Thirring Effect due to the Spin of Sgr A*. Astrophysical Journal, 2020, 904, 186.	4.5	9
141	How is the orbital period of a test particle modified by the Dvaliâ€“Gabadadzeâ€“Porrati gravity?. Journal of Cosmology and Astroparticle Physics, 2006, 2006, 008-008.	5.4	8
142	The impact of the oblateness of Regulus on the motion of its companion. Astrophysics and Space Science, 2008, 318, 51-55.	1.4	8
143	Anthropic constraints on the cosmological constant from the Sun's motion through the Milky Way. Monthly Notices of the Royal Astronomical Society, 2010, 403, 1469-1473.	4.4	8
144	Orbital effects of spatial variations of fundamental coupling constants. Monthly Notices of the Royal Astronomical Society, 2011, 417, 2392-2400.	4.4	8

#	Article	IF	Citations
145	Observational constraints on spatial anisotropy of G from orbital motions. Classical and Quantum Gravity, 2011, 28, 225027.	4.0	8
146	The impact of the orbital decay of the LAGEOS satellites on the frame-dragging tests. Advances in Space Research, 2016, 57, 493-498.	2.6	8
147	Letter: A Reassessment of the Systematic Gravitational Error in the LARES Mission. General Relativity and Gravitation, 2003, 35, 1263-1272.	2.0	7
148	ON SOME GRAVITOMAGNETIC SPINâ€“SPIN EFFECTS FOR ASTRONOMICAL BODIES. International Journal of Modern Physics D, 2003, 12, 35-43.	2.1	7
149	On the possibility of measuring the EarthÂs gravitomagnetic force in a new laboratory experiment. Classical and Quantum Gravity, 2003, 20, L5-L9.	4.0	7
150	Galactic Sun's motion in the cold dark matter, MOdified Newtonian Dynamics and modified gravity scenarios. Astronomische Nachrichten, 2009, 330, 857-862.	1.2	7
151	Mars and frame-dragging: study for a dedicated mission. General Relativity and Gravitation, 2009, 41, 1273-1284.	2.0	7
152	Does the Neptunian system of satellites challenge a gravitational origin for the Pioneer anomaly?. Monthly Notices of the Royal Astronomical Society, 2010, , no-no.	4.4	7
153	The twin paradox and Machâ€™s principle. European Physical Journal Plus, 2011, 126, 1.	2.6	7
154
On Testing Frame-Dragging with LAGEOS and a Recently Announced Geodetic Satellite
. Universe, 2018, 4, 113.	2.5	7
155	A HERO for General Relativity. Universe, 2019, 5, 165.	2.5	7
156	Advances in the Measurement of the Lense-Thirring Effect with Planetary Motions in the Field of the Sun. Scholarly Research Exchange, 2008, 2008, 1-5.	0.2	7
157	What Would Happen if We Were About 1 pc Away from a Supermassive Black Hole?. Astrophysical Journal, 2020, 889, 152.	4.5	7
158	How to reach a few percent level in determining the Lenseâ€“Thirring effect?. General Relativity and Gravitation, 2005, 37, 1059-1074.	2.0	6
159	The impact of the new Earth gravity model EIGEN-CG03C on the measurement of the Lense-Thirring effect with some existing Earth satellites. General Relativity and Gravitation, 2006, 38, 523-527.	2.0	6
160	Solar System planetary tests of $${dot c/c}$$. General Relativity and Gravitation, 2010, 42, 199-208.	2.0	6
161	Two-Body Orbit Expansion Due to Time-Dependent Relative Acceleration Rate of the Cosmological Scale Factor. Galaxies, 2014, 2, 13-21.	3.0	6
162	Constraining some râˆ’n extra-potentials in modified gravity models with LAGEOS-type laser-ranged geodetic satellites. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 021-021.	5.4	6

#	Article	IF	Citations
163	Gravitomagnetism and Gravitational Waves. The Open Astronomy Journal, 2011, 4, 84-97.	1.6	6
164	On Possible A-Priori â€œImprintingâ€•of General Relativity Itself on the Performed Lense-Thirring Tests with LAGEOS Satellites. Communications and Network, 2010, 02, 26-30.	0.8	6
165	Orbital effects of Sunâ€™s mass loss and the Earthâ€™s fate. Natural Science, 2010, 02, 329-337.	0.4	6
166	A model-independent test of the spatial variations of the Newtonian gravitational constant in some extrasolar planetary systems. Monthly Notices of the Royal Astronomical Society, 2007, 376, 1727-1730.	4.4	5
167	Gravitomagnetic time-varying effects on the motion of a test particle. General Relativity and Gravitation, 2010, 42, 2393-2402.	2.0	5
168	Solar system constraints on planetary Coriolis-type effects induced by rotation of distant masses. Journal of Cosmology and Astroparticle Physics, 2010, 2010, 030-030.	5.4	5
169	A uniform treatment of the orbital effects due to a violation of the strong equivalence principle in the gravitational Stark-like limit. Classical and Quantum Gravity, 2013, 30, 025006.	4.0	5
170	A comment on â€œCan observations inside the Solar System reveal the gravitational properties of the quantum vacuum?â€•by D.S. Hajdukovic. Astrophysics and Space Science, 2019, 364, 1.	1.4	5
171	On the mean anomaly and the mean longitude in tests of post-Newtonian gravity. European Physical Journal C, 2019, 79, 1.	3.9	5
172	Is it possible to test directly general relativity in the gravitational field of the Moon?. Classical and Quantum Gravity, 2002, 19, 2393-2398.	4.0	4
173	On the prospects for testing the Dvaliâ€“Gabadadzeâ€“Porrati gravity model with the outer planets of the Solar System. Journal of Cosmology and Astroparticle Physics, 2006, 2006, 007-007.	5.4	4
174	PERSPECTIVES ON MEASURING THE PPN PARAMETERS Î² AND Î³ IN EARTH'S GRAVITATIONAL FIELD TO HIGH ACCURACY WITH CHAMP/GRACE MODELS. International Journal of Modern Physics D, 2008, 17, 815-829.	2.1	4
175	WILL IT BE POSSIBLE TO MEASURE INTRINSIC GRAVITOMAGNETISM WITH LUNAR LASER RANGING?. International Journal of Modern Physics D, 2009, 18, 1319-1326.	2.1	4
176	Gravitomagnetic Effect in Gravitational Waves. , 2009, , .		4
177	Phenomenological constraints on LemaÃ®tre-Tolman-Bondi cosmological inhomogeneities from solar system dynamics. Journal of Cosmology and Astroparticle Physics, 2010, 2010, 004-004.	5.4	4
178	Measuring general relativistic dragging effects in the Earthâ€™s gravitational field with ELXIS: a proposal. Classical and Quantum Gravity, 2019, 36, 035002.	4.0	4
179	New general relativistic contributions to Mercuryâ€™s orbital elements and their measurability. European Physical Journal C, 2020, 80, 1.	3.9	4
180	On the Possibility of Testing the Weak Equivalence Principle with Artificial Earth Satellites. General Relativity and Gravitation, 2004, 36, 361-372.	2.0	3

#	Article	IF	Citations
181	The Impact of the New CHAMP and GRACE Gravity Models on the Measurement of the General Relativistic Lense-Thirring Effect. , 2005, , 187-192.		3
182	On the possibility of measuring the post-Newtonian gravitoelectric correction to the orbital period of a test body in a Solar system scenario. Monthly Notices of the Royal Astronomical Society, 2005, 359, 328-332.	4.4	3
183	On the impossibility of using the longitude of the ascending node of GP-B for measuring the Lense?Thirring effect. General Relativity and Gravitation, 2005, 37, 391-398.	2.0	3
184	On the clock paradox in the case of circular motion of the moving clock. European Journal of Physics, 2005, 26, 535-541.	0.6	3
185	On the use of Ajisai and Jason-1 satellites for tests of general relativity. New Astronomy, 2006, 12, 224-233.	1.8	3
186	DOES CASSINI ALLOW ONE TO MEASURE RELATIVISTIC ORBITAL EFFECTS IN THE SATURNIAN SYSTEM OF SATELLITES?. International Journal of Modern Physics D, 2007, 16, 11-17.	2.1	3
187	Gravitomagnetism and the Earthâ€“Mercury range. Advances in Space Research, 2011, 48, 1403-1410.	2.6	3
188	LETSGO: A spacecraft-based mission to accurately measure the solar angular momentum with frame-dragging. Acta Astronautica, 2013, 86, 149-157.	3.2	3
189	ON A RECENT PRELIMINARY STUDY FOR THE MEASUREMENT OF THE LENSEâ€“THIRRING EFFECT WITH THE GALILEO SATELLITES. International Journal of Modern Physics D, 2014, 23, 1450028.	2.1	3
190	Is it possible to measure new general relativistic third-body effects on the orbit of Mercury with BepiColombo?. European Physical Journal C, 2018, 78, 1.	3.9	3
191	On the impossibility of measuring the general relativistic part of the terrestrial acceleration of gravity with superconducting gravimeters. Geophysical Journal International, 2006, 167, 567-569.	2.4	2
192	DOPPLER EFFECTS FROM BENDING OF LIGHT RAYS IN CURVED SPACEâ€“TIMES. International Journal of Modern Physics D, 2006, 15, 1183-1198.	2.1	2
193	The Impact of the External Field Effect in the MOdified Newtonian Dynamics on Solar Systemâ€™s Orbits. , 2010, , .		2
194	Orbital Motions and the Conservation-Law/Preferred-Frame Î±3 Parameter. Galaxies, 2014, 2, 482-495.	3.0	2
195	<i>Withdrawal:</i> â€˜A new type of misconduct in the field of the physical sciences: The case of the pseudonyms used by I. Ciufolini to anonymously criticize other people's works on arXivâ€™ by L. Iorio. Journal of the Association for Information Science and Technology, 2014, 65, 2375-2375.	2.9	2
196	Universe: An International Multidisciplinary Open Access Journal. Universe, 2015, 1, 1-5.	2.5	2
197	A Post-Newtonian Gravitomagnetic Effect on the Orbital Motion of a Test Particle around Its Primary Induced by the Spin of a Distant Third Body. Universe, 2019, 5, 87.	2.5	2
198	Is There Still Something Left That Gravity Probe B Can Measure?. Universe, 2020, 6, 85.	2.5	2

#	Article	IF	Citations
199	An Assessment of the Systematic Uncertainty in Present and Future Tests of the Lense-Thirring Effect withÂSatellite Laser Ranging. Space Sciences Series of ISSI, 2008, , 415-433.	0.0	2
200	On the 2PN Periastron Precession of the Double Pulsar PSR J0737â€"3039A/B. Universe, 2021, 7, 443.	2.5	2
201	On the impossibility of measuring a galvano-gravitomagnetic effect with current carrying semiconductors in a space-based experiment. Classical and Quantum Gravity, 2004, 21, 2065-2069.	4.0	1
202	Some Comments on a Recently Derived Approximated Solution of the Einstein Equations for a Spinning Body with Negligible Mass. General Relativity and Gravitation, 2004, 36, 1987-2003.	2.0	1
203	The impact of the Kuiper Belt Objects and of the asteroid ring on future high-precision relativistic Solar System tests. Planetary and Space Science, 2007, 55, 2045-2048.	1.7	1
204	Erratum to â€œJuno, the angular momentum of Jupiter and the Lenseâ€"Thirring effectâ€•[New Astronomy 15 (2010) 554â€"560]. New Astronomy, 2011, 16, 17-18.	1.8	1
205	Erratum to â€œSolar System Motions and the Cosmological Constant: A New Approachâ€• Advances in Astronomy, 2012, 2012, 1-1.	1.1	1
206	Orbital effects due to gravitational induction. General Relativity and Gravitation, 2015, 47, 1.	2.0	1
207	Is the Recently Proposed Mars-Sized Perturber at 65â€"80 AU Ruled Out by the Cassini Ranging Data?. Frontiers in Astronomy and Space Sciences, 2017, 4, .	2.8	1
208	Measuring the De Sitter precession with a new Earthâ€™s satellite to the $$simeq 10^{-5}$$ â‰ƒ 10 - 5 level: a proposal. European Physical Journal C, 2019, 79, 1.	3.9	1
209	Effects of General Relativistic Spin Precessions on the Habitability of Rogue Planets Orbiting Supermassive Black Holes. Astrophysical Journal, 2020, 896, 82.	4.5	1
210	The impact of the spinâ€"orbit misalignment and of the spin of B on the Lenseâ€"Thirring orbital precessions of the double pulsar PSRÂJ0737â€"3039A/B. Monthly Notices of the Royal Astronomical Society, 2021, 507, 421-430.	4.4	1
211	On Some Critical Issues of the LAGEOS-Based Tests of the Lense-Thirring Effect. Journal of Modern Physics, 2011, 02, 210-218.	0.6	1
212	The Effect of Post-Newtonian Spin Precessions on the Evolution of Exomoonsâ€™ Obliquity. Astronomical Journal, 2022, 163, 55.	4.7	1
213	REDUCING THE EXPERIMENTAL UNCERTAINTY ON THE CKM ANGLE Î±. Modern Physics Letters A, 1999, 14, 1461-1477.	1.2	0
214	SPIN PRECESSION IN THE DVALIâ€"GABADADZEâ€"PORRATI BRANEWORLD SCENARIO. International Journal of Modern Physics D, 2006, 15, 469-472.	2.1	0
215	Testing general relativity with satellite laser ranging: Recent developments. Advances in Space Research, 2007, 39, 236-243.	2.6	0
216	Determination of tidal distortion in the eclipsing binary system V621 Cen by means of deviations from the third Kepler law. New Astronomy, 2008, 13, 473-475.	1.8	0

#	Article	IF	Citations
217	A Priori â€œImprintingâ€•of General Relativity Itself on Some Tests of It?. Advances in Astronomy, 2010, 2010, 1-5.	1.1	0
218	"IMPRINTING" IN GENERAL RELATIVITY TESTS?. International Journal of Modern Physics D, 2011, 20, 1945-1948.	2.1	0
219	LOWER BOUNDS OF CHARACTERISTIC SCALE OF TOPOLOGICAL MODIFICATION OF THE NEWTONIAN GRAVITATION. International Journal of Modern Physics D, 2012, 21, 1250048.	2.1	0
220	Commentary to â€œLARES successfully launched in orbit: Satellite and mission descriptionâ€•by A. Paolozzi and I. Ciufolini. Acta Astronautica, 2014, 95, 174-175.	3.2	0
221	A Possible Test of theJ2câˆ'2General Relativistic Orbital Effects with Juno. Journal of Physics: Conference Series, 2014, 490, 012238.	0.4	0
222	2nd International Conference on Mathematical Modeling in Physical Sciences 2013 (IC-MSQUARE 2013). Journal of Physics: Conference Series, 2014, 490, 011001.	0.4	0
223	Are we close to putting the anomalous perihelion precessions from Verlindeâ€™s emergent gravity to the test?. European Physical Journal C, 2017, 77, 1.	3.9	0
224	Classical and general relativistic post-Keplerian effects in binary pulsars hosting fast rotating main sequence stars. European Physical Journal C, 2019, 79, 1.	3.9	0
225	Are the planetary orbital effects of the solar dark matter wake detectable?. Monthly Notices of the Royal Astronomical Society, 2019, 489, 723-726.	4.4	0
226	Post-Editorial of â€œUniverse: 5th Anniversaryâ€•Special Volume. Universe, 2021, 7, 120.	2.5	0
227	The Impact of Classical and General Relativistic Obliquity Precessions on the Habitability of Circumstellar Neutron Starsâ€™ Planets. Astronomical Journal, 2021, 162, 51.	4.7	0
228	New Perspectives in Testing the General Relativistic Lense-Thirring Effect. Springer Proceedings in Physics, 2004, , 513-520.	0.2	0
229	Is it plausible to expect a close encounter of the Earth with a yet undiscovered astronomical object in the next few years?. Natural Science, 2010, 02, 1181-1188.	0.4	0
230	Orbital effects of a monochromatic plane gravitational wave with ultra-low frequency incident on a gravitationally bound two-body system. ScienceOpen Research, 0, , .	0.6	0
231	Why Is the Mean Anomaly at Epoch Not Used in Tests of Non-Newtonian Gravity?. Universe, 2022, 8, 203.	2.5	0