

Angelo Tartaglia

List of Publications by Year in descending order

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112
papers

1,253
citations

361413

20
h-index

414414

32
g-index

115
all docs

115
docs citations

115
times ranked

583
citing authors

#	ARTICLE	IF	CITATIONS
1	Measuring gravitomagnetic effects by a multi-ring-laser gyroscope. <i>Physical Review D</i> , 2011, 84, .	4.7	126
2	Post-newtonian parameters from alternative theories of gravity. <i>General Relativity and Gravitation</i> , 2005, 37, 1891-1904.	2.0	102
3	Binary black hole merger in the extreme-mass-ratio limit. <i>Classical and Quantum Gravity</i> , 2007, 24, S109-S123.	4.0	74
4	Speed of Light on Rotating Platforms. <i>Foundations of Physics</i> , 1998, 28, 1663-1683.	1.3	61
5	Testing general relativity by means of ring lasers. <i>European Physical Journal Plus</i> , 2017, 132, 1.	2.6	46
6	A ring lasers array for fundamental physics. <i>Comptes Rendus Physique</i> , 2014, 15, 866-874.	0.9	41
7	General relativistic corrections to the Sagnac effect. <i>Physical Review D</i> , 1998, 58, .	4.7	40
8	On Local and Global Measurements of the Speed of Light on Rotating Platforms. <i>Foundations of Physics Letters</i> , 1999, 12, 179-186.	0.6	37
9	Einsteinâ€™Cartan theory as a theory of defects in spaceâ€™time. <i>American Journal of Physics</i> , 2003, 71, 1303-1313.	0.7	35
10	Detection of the gravitomagnetic clock effect. <i>Classical and Quantum Gravity</i> , 2000, 17, 783-792.	4.0	34
11	A canonical approach to the quantum problem on the motion of a particle in a viscous medium. <i>Lettere Al Nuovo Cimento Rivista Internazionale Della Societ� Italiana Di Fisica</i> , 1977, 19, 205-209.	0.4	32
12	The Sagnac effect and pure geometry. <i>American Journal of Physics</i> , 2015, 83, 427-432.	0.7	32
13	The quantization of quadratic friction. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1980, 77, 1-2.	2.1	31
14	An automatic evaluation system for technical education at the University level. <i>IEEE Transactions on Education</i> , 2002, 45, 268-275.	2.4	31
15	A LASER GYROSCOPE SYSTEM TO DETECT THE GRAVITO-MAGNETIC EFFECT ON EARTH. <i>International Journal of Modern Physics D</i> , 2010, 19, 2331-2343.	2.1	31
16	Geometric Treatment of the Gravitomagnetic Clock Effect. <i>General Relativity and Gravitation</i> , 2000, 32, 1745-1756.	2.0	26
17	Gravito-electromagnetism versus electromagnetism. <i>European Journal of Physics</i> , 2004, 25, 203-210.	0.6	25
18	Quantization of motion in a velocity-dependent field: Thev2case. <i>Physical Review A</i> , 1981, 23, 1591-1593.	2.5	24

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19	Emission versus Fermi coordinates: applications to relativistic positioning systems. <i>Classical and Quantum Gravity</i> , 2008, 25, 205011.	4.0	23
20	Vector field theories in cosmology. <i>Physical Review D</i> , 2007, 76, .	4.7	22
21	A null frame for spacetime positioning by means of pulsating sources. <i>Advances in Space Research</i> , 2011, 47, 645-653.	2.6	19
22	A note on the Sagnac effect and current terrestrial experiments. <i>European Physical Journal Plus</i> , 2014, 129, 1.	2.6	19
23	Non-conservative forces, lagrangians and quantisation. <i>European Journal of Physics</i> , 1983, 4, 231-234.	0.6	18
24	Test of gravitomagnetism with satellites around the Earth. <i>European Physical Journal Plus</i> , 2019, 134, 1.	2.6	16
25	Lengths on rotating platforms. <i>Foundations of Physics Letters</i> , 1999, 12, 17-28.	0.6	15
26	A tensor theory of spacetime as a strained material continuum. <i>Classical and Quantum Gravity</i> , 2010, 27, 035001.	4.0	14
27	PULSARS AS CELESTIAL BEACONS TO DETECT THE MOTION OF THE EARTH. <i>International Journal of Modern Physics D</i> , 2011, 20, 1025-1038.	2.1	14
28	How to use the Sun's Earth Lagrange points for fundamental physics and navigation. <i>General Relativity and Gravitation</i> , 2018, 50, 1.	2.0	12
29	SPACE-TIME DEFECTS AS A SOURCE OF CURVATURE AND TORSION. <i>International Journal of Modern Physics A</i> , 2005, 20, 2336-2340.	1.5	11
30	Gravitomagnetism, clocks and geometry. <i>European Journal of Physics</i> , 2001, 22, 105-111.	0.6	10
31	Lorentz contraction and accelerated systems. <i>European Journal of Physics</i> , 2003, 24, 215-220.	0.6	10
32	A note on the Sagnac effect for matter beams. <i>European Physical Journal Plus</i> , 2015, 130, 1.	2.6	10
33	Energy Communities in Piedmont Region (IT). The case study in Pinerolo territory. , 2018, , .		10
34	Angular Momentum Effects in Michelson's Morley Type Experiments. <i>General Relativity and Gravitation</i> , 2002, 34, 1371-1382.	2.0	9
35	Emission coordinates for the navigation in space. <i>Acta Astronautica</i> , 2010, 67, 539-545.	3.2	9
36	Influence of the angular momentum of astrophysical objects on light and clocks and related measurements. <i>Classical and Quantum Gravity</i> , 2000, 17, 2381-2384.	4.0	8

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37	Gravitational Faraday rotation in binary pulsar systems. Monthly Notices of the Royal Astronomical Society, 2007, 374, 847-851.	4.4	8
38	General Langrangians for the motion of a point particle in a viscous medium and the problem of quantization. Societa Italiana Di Fisica Nuovo Cimento B-General Physics, Relativity Astronomy and Mathematical Physics and Methods, 1980, 57, 131-145.	0.2	7
39	Angular-momentum effects in weak gravitational fields. Europhysics Letters, 2002, 60, 167-173.	2.0	7
40	Time delay in binary systems. Physical Review D, 2005, 71, .	4.7	7
41	COSMOLOGICAL CONSTRAINTS FOR THE COSMIC DEFECT THEORY. International Journal of Modern Physics D, 2011, 20, 1039-1051.	2.1	7
42	Quantum time delay in the gravitational field of a rotating mass. Classical and Quantum Gravity, 2017, 34, 165008.	4.0	7
43	Range of fission products in carbon. Lettere Al Nuovo Cimento Rivista Internazionale Della Societ� Italiana Di Fisica, 1970, 4, 1185-1190.	0.4	6
44	MAPPING CARTESIAN COORDINATES INTO EMISSION COORDINATES: SOME TOY MODELS. International Journal of Modern Physics D, 2008, 17, 311-326.	2.1	6
45	Measuring general relativity effects in a terrestrial lab by means of laser gyroscopes. Laser Physics, 2014, 24, 074005.	1.2	6
46	A cold-neutron spectrometer for inelastic-scattering studies. Nuclear Instruments & Methods, 1974, 114, 21-27.	1.2	5
47	Post-Keplerian parameter to test gravitomagnetic effects in binary pulsar systems. Physical Review D, 2005, 72, .	4.7	5
48	A laser gyroscope system to detect the gravito-magnetic effect on Earth. Journal of Physics: Conference Series, 2012, 375, 062005.	0.4	5
49	Looking for a new test of general relativity in the solar system. Modern Physics Letters A, 2018, 33, 1850136.	1.2	5
50	Detecting the gravito-magnetic field of the dark halo of the Milky Way - the LaDaHaD mission concept. Experimental Astronomy, 0, , 1.	3.7	5
51	Modelling and analysis of a-SiC:H p�n photodetectors: Effect of hydrogen dilution on dynamic model. Solid-State Electronics, 2007, 51, 1067-1072.	1.4	4
52	A DARKLESS SPACE�TIME. International Journal of Modern Physics D, 2008, 17, 275-299.	2.1	4
53	FITTING THE LUMINOSITY DATA FROM TYPE Ia SUPERNOVAE IN THE FRAME OF THE COSMIC DEFECT THEORY. International Journal of Modern Physics D, 2009, 18, 501-512.	2.1	4
54	Spherical symmetry in a dark energy permeated spacetime. Classical and Quantum Gravity, 2012, 29, 115003.	4.0	4

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55	Experimental determination of gravitomagnetic effects by means of ring lasers. Journal of Physics: Conference Series, 2013, 453, 012019.	0.4	4
56	From the elasticity theory to cosmology and vice versa. Science China: Physics, Mechanics and Astronomy, 2014, 57, 597-603.	5.1	4
57	Dark angular momentum of the galaxy. International Journal of Modern Physics D, 2018, 27, 1847012.	2.1	4
58	Detecting the angular momentum of the galactic dark halo. Advances in Space Research, 2019, 64, 545-550.	2.6	4
59	Heliumlike excitations in simple liquids. Societa Italiana Di Fisica Nuovo Cimento B-General Physics, Relativity Astronomy and Mathematical Physics and Methods, 1977, 37, 97-112.	0.2	3
60	General-relativistic models of a spherical charge and mass distribution. Societa Italiana Di Fisica Nuovo Cimento B-General Physics, Relativity Astronomy and Mathematical Physics and Methods, 1986, 95, 55-62.	0.2	3
61	Verifying the learning process in physics. European Journal of Physics, 2001, 22, 257-265.	0.6	3
62	Gravitomagnetic Measurement of the Angular Momentum of Celestial Bodies. General Relativity and Gravitation, 2004, 36, 293-301.	2.0	3
63	Summary of session B3: analytic approximations, perturbation methods and their applications. Classical and Quantum Gravity, 2008, 25, 114020.	4.0	3
64	Channeling of fission fragments in silicon. Lettere Al Nuovo Cimento Rivista Internazionale Della Societ� Italiana Di Fisica, 1972, 5, 918-920.	0.4	2
65	Scattering of 10 \AA neutrons from heavy water. Lettere Al Nuovo Cimento Rivista Internazionale Della Societ� Italiana Di Fisica, 1975, 14, 453-457.	0.4	2
66	Molecular dynamics in H ₂ O and D ₂ O analysis by inelastic scattering of 10 \AA neutrons. Societa Italiana Di Fisica Nuovo Cimento B-General Physics, Relativity Astronomy and Mathematical Physics and Methods, 1977, 37, 185-197.	0.2	2
67	LORENTZ NONINVARIANCE WITHOUT TACHYONS IN THE SCHWARZSCHILD FIELD. Modern Physics Letters A, 1987, 02, 385-390.	1.2	2
68	An Approximated Solution of the Einstein Equations for a Rotating Body with Negligible Mass. General Relativity and Gravitation, 2003, 35, 371-387.	2.0	2
69	Rotation Effects and The Gravito-Magnetic Approach. AIP Conference Proceedings, 2005, , .	0.4	2
70	DOPPLER EFFECTS FROM BENDING OF LIGHT RAYS IN CURVED SPACE‐TIMES. International Journal of Modern Physics D, 2006, 15, 1183-1198.	2.1	2
71	Dark energy as an elastic strain fluid. Monthly Notices of the Royal Astronomical Society, 2013, 429, 1149-1155.	4.4	2
72	Light and/or atomic beams to detect ultraweak gravitational effects. EPJ Web of Conferences, 2014, 74, 03001.	0.3	2

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73	External metrology system for the stabilization of large ring-lasers. , 2016, , .		2
74	Light as a probe of the structure of space-time. Journal of Physics: Conference Series, 2016, 718, 072007.	0.4	2
75	The strained state cosmology. International Journal of Modern Physics A, 2016, 31, 1641015.	1.5	2
76	Growth and Inequalities in a Physicistâ€™s View. Biophysical Economics and Sustainability, 2020, 5, 1.	1.4	2
77	Does Anything Happen on a Rotating Disk?. , 2004, , 261-273.		2
78	A method for the multiple scattering correction in double-differential neutron scattering measurements. Nuclear Instruments & Methods, 1975, 124, 375-379.	1.2	1
79	A comment on a proposed Â« new mechanics Â». Lettere Al Nuovo Cimento Rivista Internazionale Della SocietÃ Italiana Di Fisica, 1980, 28, 193-194.	0.4	1
80	Weighing the Milky Way. Classical and Quantum Gravity, 2003, 20, 2815-2825.	4.0	1
81	From Elastic Continua To Space-time. , 2010, , .		1
82	The Strained State Cosmology. , 2011, , .		1
83	A STRAINED SPACE-TIME TO EXPLAIN THE LARGE SCALE PROPERTIES OF THE UNIVERSE. International Journal of Modern Physics Conference Series, 2011, 03, 303-311.	0.7	1
84	MEASURING GRAVITOMAGNETIC EFFECTS BY MEANS OF RING LASERS. International Journal of Modern Physics Conference Series, 2013, 23, 125-134.	0.7	1
85	Very high sensitivity laser gyroscopes for general relativity tests in a ground laboratory. , 2016, , .		1
86	The GINGER Project. Nuclear and Particle Physics Proceedings, 2017, 291-293, 140-145.	0.5	1
87	Relativistic positioning and sagnac-like measurements for fundamental physics in space. Advances in Space Research, 2020, 66, 2757-2763.	2.6	1
88	From Kerr to Heisenberg. Entropy, 2021, 23, 315.	2.2	1
89	Geometric definition of emission coordinates. Advances in Space Research, 2022, , .	2.6	1
90	Â«Two fluidsÂ» model of a simple liquid. Societa Italiana Di Fisica Nuovo Cimento B-General Physics, Relativity Astronomy and Mathematical Physics and Methods, 1979, 49, 283-297.	0.2	0

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91	Transmission and reflection on a viscous barrier. Societa Italiana Di Fisica Nuovo Cimento B-General Physics, Relativity Astronomy and Mathematical Physics and Methods, 1982, 72, 190-198.	0.2	0
92	A model of the growth and evolution of woods. Mathematics and Computers in Simulation, 1982, 24, 230-232.	4.4	0
93	Relativistic motion of a sphere in a cold incoherent dust. Societa Italiana Di Fisica Nuovo Cimento B-General Physics, Relativity Astronomy and Mathematical Physics and Methods, 1984, 80, 169-182.	0.2	0
94	Problems with the spontaneous dimensional reduction of Kaluza-Klein theories by means of antisymmetric tensor fields in five dimensions. Physics Letters, Section A: General, Atomic and Solid State Physics, 1988, 131, 25-27.	2.1	0
95	On the lorentz-symmetry breaking. Il Nuovo Cimento A, 1988, 99, 107-116.	0.2	0
96	Is the Lorentz symmetry exact?. Chinese Physics Letters, 1988, 5, 243-244.	3.3	0
97	Cosmic strings and intermediate scale structure of the universe. Societa Italiana Di Fisica Nuovo Cimento B-General Physics, Relativity Astronomy and Mathematical Physics and Methods, 1989, 104, 353-360.	0.2	0
98	ALFA-EVALU: a collaboration network among Latin American and European Universities. , 0, , .		0
99	Fitting The Luminosity Data From Type Ia Supernovae By Means Of The Cosmic Defect Theory. AIP Conference Proceedings, 2008, , .	0.4	0
100	COSMIC DEFECT COSMOLOGY. International Journal of Modern Physics A, 2009, 24, 1620-1624.	1.5	0
101	Massive gravitational waves from the Cosmic Defect theory. , 2010, , .		0
102	Space-time as a deformable continuum. Journal of Physics: Conference Series, 2010, 222, 012028.	0.4	0
103	Lensing in an elastically strained space-time. Journal of Physics: Conference Series, 2011, 283, 012037.	0.4	0
104	A strained space-time. Journal of Physics: Conference Series, 2011, 314, 012034.	0.4	0
105	Experimental tests of general relativity: Where are we?. , 2012, , .		0
106	Is time enough in order to know where you are?. EPJ Web of Conferences, 2013, 58, 03003.	0.3	0
107	Science and the Future: Introduction. E3S Web of Conferences, 2014, 2, 01001.	0.5	0
108	RELATIVISTIC POSITIONING, PULSARS AND SPACE-TIME GEODESY. , 2015, , .		0

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109	A network of heterodyne laser interferometers for monitoring and control of large ring-lasers. Proceedings of SPIE, 2016, , .	0.8	0
110	LAGRANGE: An experiment for testing general relativity in the inner solar system. , 2017, , .		0
111	Using Galileo for Detecting the Gravito-Magnetic Field of the Earth. , 2018, , .		0
112	Sagnac, Gclock Effect and Gravitomagnetism. , 2002, , 353-360.		0