

Erricos C Pavlis

List of Publications by Year in descending order

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91
papers

3,051
citations

186265

28
h-index

161849

54
g-index

101
all docs

101
docs citations

101
times ranked

1161
citing authors

#	ARTICLE	IF	CITATIONS
1	A confirmation of the general relativistic prediction of the Lense-Thirring effect. <i>Nature</i> , 2004, 431, 958-960.	27.8	417
2	Test of General Relativity and Measurement of the Lense-Thirring Effect with Two Earth Satellites. <i>Science</i> , 1998, 279, 2100-2103.	12.6	200
3	Gravity model development for TOPEX/POSEIDON: Joint Gravity Models 1 and 2. <i>Journal of Geophysical Research</i> , 1994, 99, 24421.	3.3	184
4	High-accuracy zenith delay prediction at optical wavelengths. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	164
5	The GEM-T2 Gravitational Model. <i>Journal of Geophysical Research</i> , 1990, 95, 22043-22071.	3.3	162
6	A new gravitational model for the Earth from satellite tracking data: GEM-T1. <i>Journal of Geophysical Research</i> , 1988, 93, 6169-6215.	3.3	159
7	Tectonic motion and deformation from satellite laser ranging to LAGEOS. <i>Journal of Geophysical Research</i> , 1990, 95, 22013-22041.	3.3	127
8	A test of general relativity using the LARES and LAGEOS satellites and a GRACE Earth gravity model. <i>European Physical Journal C</i> , 2016, 76, 120.	3.9	105
9	The ILRS: approaching 20 years and planning for the future. <i>Journal of Geodesy</i> , 2019, 93, 2161-2180.	3.6	105
10	Improved mapping functions for atmospheric refraction correction in SLR. <i>Geophysical Research Letters</i> , 2002, 29, 53-1-53-4.	4.0	99
11	Determination of frame-dragging using Earth gravity models from CHAMP and GRACE. <i>New Astronomy</i> , 2006, 11, 527-550.	1.8	70
12	Towards a One Percent Measurement of Frame Dragging by Spin with Satellite Laser Ranging to LAGEOS, LAGEOS 2 and LARES and GRACE Gravity Models. <i>Space Science Reviews</i> , 2009, 148, 71-104.	8.1	65
13	A geopotential model from satellite tracking, altimeter, and surface gravity data: GEM-T3. <i>Journal of Geophysical Research</i> , 1994, 99, 2815-2839.	3.3	62
14	Testing General Relativity and gravitational physics using the LARES satellite. <i>European Physical Journal Plus</i> , 2012, 127, 1.	2.6	59
15	Laser geodetic satellites: a high-accuracy scientific tool. <i>Journal of Geodesy</i> , 2019, 93, 2181-2194.	3.6	55
16	Testing gravitational physics with satellite laser ranging. <i>European Physical Journal Plus</i> , 2011, 126, 1.	2.6	52
17	DPOD2005: An extension of ITRF2005 for Precise Orbit Determination. <i>Advances in Space Research</i> , 2009, 44, 535-544.	2.6	47
18	Contemporary global horizontal crustal motion. <i>Geophysical Journal International</i> , 1994, 119, 511-520.	2.4	38

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19	Gravitomagnetism and Its Measurement with Laser Ranging to the LAGEOS Satellites and GRACE Earth Gravity Models. <i>Astrophysics and Space Science Library</i> , 2010, , 371-434.	2.7	37
20	Fundamental Physics and General Relativity with the LARES and LAGEOS satellites. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2013, 243-244, 180-193.	0.4	35
21	New high-resolution model developed for earth's gravitational field. <i>Eos</i> , 1998, 79, 113-113.	0.1	34
22	The GAVDOS Mean Sea Level and Altimeter Calibration Facility: Results for Jason-1. <i>Marine Geodesy</i> , 2004, 27, 631-655.	2.0	34
23	On the measurement of the Lense-Thirring effect using the nodes of the LAGEOS satellites, in reply to "On the reliability of the so-far performed tests for measuring the Lense-Thirring effect with the LAGEOS satellites" by L. Iorio. <i>New Astronomy</i> , 2005, 10, 636-651.	1.8	33
24	Measuring the relativistic perigee advance with satellite laser ranging. <i>Classical and Quantum Gravity</i> , 2002, 19, 4301-4309.	4.0	32
25	LAGEOS II perigee rate and eccentricity vector excitations residuals and the Yarkovsky-Schach effect. <i>Planetary and Space Science</i> , 2004, 52, 699-710.	1.7	31
26	A ray-tracing technique for improving Satellite Laser Ranging atmospheric delay corrections, including the effects of horizontal refractivity gradients. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	30
27	Expected orbit determination performance for the TOPEX/Poseidon mission. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 1993, 31, 333-354.	6.3	29
28	Monte Carlo simulations of the LARES space experiment to test General Relativity and fundamental physics. <i>Classical and Quantum Gravity</i> , 2013, 30, 235009.	4.0	29
29	Systematic errors in SLR data and their impact on the ILRS products. <i>Journal of Geodesy</i> , 2019, 93, 2357-2366.	3.6	29
30	Comparison of GPS S/C orbits determined from GPS and SLR tracking data. <i>Advances in Space Research</i> , 1995, 16, 55-58.	2.6	28
31	On the possibility of measuring the Lense-Thirring effect with a LAGEOS-LAGEOS II-OPTIS mission. <i>Classical and Quantum Gravity</i> , 2004, 21, 2139-2151.	4.0	28
32	A new laser-ranged satellite for General Relativity and space geodesy: I. An introduction to the LARES2 space experiment. <i>European Physical Journal Plus</i> , 2017, 132, 1.	2.6	28
33	Phenomenology of the Lense-Thirring effect in the Solar System: Measurement of frame-dragging with laser ranged satellites. <i>New Astronomy</i> , 2012, 17, 341-346.	1.8	27
34	An improved test of the general relativistic effect of frame-dragging using the LARES and LAGEOS satellites. <i>European Physical Journal C</i> , 2019, 79, 1.	3.9	27
35	THE IMPACT OF TIDAL ERRORS ON THE DETERMINATION OF THE LENSE-THIRRING EFFECT FROM SATELLITE LASER RANGING. <i>International Journal of Modern Physics D</i> , 2002, 11, 599-618.	2.1	26
36	Prospects in the orbital and rotational dynamics of the Moon with the advent of sub-centimeter lunar laser ranging. <i>Advances in Space Research</i> , 2008, 42, 1378-1390.	2.6	23

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37	The terrestrial reference frame and the dynamic Earth. <i>Eos</i> , 2001, 82, 273-279.	0.1	21
38	An improved error assessment for the GEMâ€1 Gravitational Model. <i>Journal of Geophysical Research</i> , 1991, 96, 20023-20040.	3.3	18
39	PROBING GRAVITY IN NEO'S WITH HIGH-ACCURACY LASER-RANGED TEST MASSES. <i>International Journal of Modern Physics D</i> , 2007, 16, 2271-2285.	2.1	18
40	The Earth's frame-dragging via laser-ranged satellites: A Response to "Some considerations on the present-day results for the detection of frame-dragging after the final outcome of GP-B" by Iorio L.. <i>Europhysics Letters</i> , 2011, 96, 30002.	2.0	17
41	Rapid response quality control service for the laser ranging tracking network. <i>Journal of Geodesy</i> , 2019, 93, 2335-2344.	3.6	17
42	A new laser-ranged satellite for General Relativity and space geodesy: II. Monte Carlo simulations and covariance analyses of the LARES 2 experiment. <i>European Physical Journal Plus</i> , 2017, 132, 1.	2.6	14
43	Scientific objectives of current and future WEGENER activities. <i>Tectonophysics</i> , 1998, 294, 177-223.	2.2	13
44	Analysis of the angle-only orbit determination for optical tracking strategy of Korea GEO satellite, COMS. <i>Advances in Space Research</i> , 2015, 56, 1056-1066.	2.6	13
45	Preliminary orbital analysis of the LARES space experiment. <i>European Physical Journal Plus</i> , 2015, 130, 1.	2.6	13
46	Future global SLR network evolution and its impact on the terrestrial reference frame. <i>Journal of Geodesy</i> , 2018, 92, 625-635.	3.6	12
47	Satellite Laser-Ranging as a Probe of Fundamental Physics. <i>Scientific Reports</i> , 2019, 9, 15881.	3.3	12
48	The goals, achievements, and tools of modern geodesy. , 2009, , 15-88.		12
49	Dynamical Determination of Origin and Scale in the Earth System from Satellite Laser Ranging. <i>International Association of Geodesy Symposia</i> , 2002, , 36-41.	0.4	11
50	Studies on the materials of LARES 2 satellite. <i>Journal of Geodesy</i> , 2019, 93, 2437-2446.	3.6	10
51	COSMIC:Geodetic Applications in Improving Earth's Gravity Model. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2000, 11, 365.	0.6	10
52	Modernizing and expanding the NASA Space Geodesy Network to meet future geodetic requirements. <i>Journal of Geodesy</i> , 2019, 93, 2263-2273.	3.6	9
53	Reply to "A comment on "A test of general relativity using the LARES and LAGEOS satellites and a GRACE Earth gravity model, by I. Ciufolini et al."". <i>European Physical Journal C</i> , 2018, 78, 880.	3.9	8
54	Tropospheric water vapor from solar spectrometry and comparison with Jason microwave radiometer measurements. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	7

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55	A new laser-ranged satellite for General Relativity and space geodesy: IV. Thermal drag and the LARES 2 space experiment. <i>European Physical Journal Plus</i> , 2018, 133, 1.	2.6	6
56	The effect of earth orientation errors in baseline determination. <i>Bulletin Geodesique</i> , 1983, 57, 273-282.	0.4	5
57	On the geodetic applications of simultaneous range differences to LAGEOS. <i>Journal of Geophysical Research</i> , 1985, 90, 9431.	3.3	5
58	Improvements in the accuracy of Goddard Earth Models (GEM). <i>Geodynamic Series</i> , 1993, , 191-212.	0.1	5
59	The Contribution of LARES to Global Climate Change Studies With Geodetic Satellites. , 2015, , .		5
60	Overview of the ILRS Contribution to the Development of ITRF2013. <i>International Association of Geodesy Symposia</i> , 2015, , 101-108.	0.4	5
61	Quality assessment of LARES satellite ranging data: LARES contribution for improving the terrestrial reference frame. , 2015, , .		5
62	The Laser Retroreflector Experiment on GPS-35 and 36. <i>International Association of Geodesy Symposia</i> , 1996, , 154-158.	0.4	5
63	Contribution of LARES and geodetic satellites on environmental monitoring. , 2015, , .		4
64	Transitioning the NASA SLR network to Event Timing Mode for reduced systematics, improved stability and data precision. <i>Journal of Geodesy</i> , 2019, 93, 2345-2355.	3.6	4
65	GAVDOS: A satellite radar altimeter calibration and sea-level monitoring site on the island of Gavdos, Crete. <i>Elsevier Oceanography Series</i> , 2003, 69, 258-264.	0.1	3
66	Permanent facility for calibration/validation of satellite altimetry: GAVDOS. , 2004, 5569, 14.		3
67	PROBING GRAVITY IN NEO'S WITH HIGH-ACCURACY LASER-RANGED TEST MASSES. , 2009, , 399-413.		3
68	LARES satellite thermal forces and a test of general relativity. , 2016, , .		3
69	GGOS Working Group on Ground Networks Communications. , 2007, , 719-726.		3
70	A High-Resolution Geoid for the Establishment of the GAVDOS Multi-Satellite Calibration Site. <i>International Association of Geodesy Symposia</i> , 2001, , 347-354.	0.4	3
71	The ILRS EOP Time Series. <i>Artificial Satellites</i> , 2010, 45, 41-48.	0.7	3
72	The determination of present-day tectonic motions from laser ranging to LAGEOS. , 1990, , 221-240.		2

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73	The role of laser determined orbits in geodesy and geophysics. Advances in Space Research, 1991, 11, 111-118.	2.6	2
74	An alternative procedure for the estimation of the altimeter bias for the Jason-1 satellite using the dedicated calibration site at Gavdos. Proceedings of SPIE, 2008, , .	0.8	2
75	LARES mission operations. , 2015, , .		2
76	Gravity Field Estimation from Future Space Missions: TOPEX/POSEIDON, Gravity Probe B, and Aristoteles. International Association of Geodesy Symposia, 1992, , 51-61.	0.4	2
77	Introduction To The Special Issue Of The Symposium Evolving Geodesy. Surveys in Geophysics, 2001, 22, 427-429.	4.6	1
78	Dragging of inertial frames, fundamental physics, and satellite laser ranging. , 2014, , 157-186.		1
79	Monitoring global climate change using SLR data from LARES and other geodetic satellites. Proceedings of SPIE, 2016, , .	0.8	1
80	El Niño effects on earth rotation parameters from LAGEOS and LARES orbital analysis. , 2017, , .		1
81	Plate Motions and Deformation from Lageos. International Association of Geodesy Symposia, 1990, , 21-29.	0.4	1
82	Preliminary Results from the Joint GSFC/DMA Gravity Model Project. International Association of Geodesy Symposia, 1996, , 92-110.	0.4	1
83	Effects of Climate Change on Earth's Parameters - An Example of Exabyte-sized System. , 2016, , .		1
84	Validation of improved atmospheric refraction models for Satellite Laser Ranging (SLR). , 2007, , 844-852.		1
85	European radar altimeter calibration and sea-level monitoring site for Jason-1 and Envisat at the island of Gavdos, Crete, Greece. , 2003, 4880, 52.		0
86	Orbital predictions for the LARES satellite mission: The International Space Time Analysis Research Center (ISTARC). , 2015, , .		0
87	Preface to the second special issue on Laser Ranging. Journal of Geodesy, 2019, 93, 2159-2160.	3.6	0
88	Tests of General Relativity with the LARES Satellites. Fundamental Theories of Physics, 2019, , 467-479.	0.3	0
89	Geodetic Applications of the ROCSAT-3/COSMIC Mission. International Association of Geodesy Symposia, 2000, , 214-217.	0.4	0
90	Towards a One Percent Measurement of Frame Dragging by Spin with Satellite Laser Ranging to LAGEOS, LAGEOS 2 and LARES and GRACE Gravity Models. Space Sciences Series of ISSI, 2009, , 71-104.	0.0	0

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91	Long wavelength geopotential and tidal modeling for geodynamics and ocean dynamics: GEM-T3 and GEM-T3S. Geophysical Monograph Series, 1994, , 9-19.	0.1	0