Erricos C Pavlis

List of Publications by Year
in descending order

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	Preface to the second special issue on Laser Ranging. Journal of Geodesy, 2019, 93, 2159-2160.	3.6	0
2	The ILRS: approaching 20Âyears and planning for the future. Journal of Geodesy, 2019, 93, 2161-2180.	3.6	105
3	Tests of General Relativity with the LARES Satellites. Fundamental Theories of Physics, 2019, , 467-479.	0.3	0
4	Laser geodetic satellites: a high-accuracy scientific tool. Journal of Geodesy, 2019, 93, 2181-2194.	3.6	55
5	An improved test of the general relativistic effect of frame-dragging using the LARES and LAGEOS satellites. European Physical Journal C, 2019, 79, 1.	3.9	27
6	Systematic errors in SLR data and their impact on the ILRS products. Journal of Geodesy, 2019, 93, 2357-2366.	3.6	29
7	Studies on the materials of LARES 2 satellite. Journal of Geodesy, 2019, 93, 2437-2446.	3.6	10
8	Satellite Laser-Ranging as a Probe of Fundamental Physics. Scientific Reports, 2019, 9, 15881.	3.3	12
9	Transitioning the NASA SLR network to Event Timing Mode for reduced systematics, improved stability and data precision. Journal of Geodesy, 2019, 93, 2345-2355.	3.6	4
10	Rapid response quality control service for the laser ranging tracking network. Journal of Geodesy, 2019, 93, 2335-2344.	3.6	17
11	Modernizing and expanding the NASA Space Geodesy Network to meet future geodetic requirements. Journal of Geodesy, 2019, 93, 2263-2273.	3.6	9
12	Future global SLR network evolution and its impact on the terrestrial reference frame. Journal of Geodesy, 2018, 92, 625-635.	3.6	12
13	Reply to â€œA comment on â€œA test of general relativity using the LARES and LAGEOS satellites and a GRACE Earth gravity model, by I. Ciufolini et al.â€â€•. European Physical Journal C, 2018, 78, 880.	3.9	8
14	A new laser-ranged satellite for General Relativity and space geodesy: IV. Thermal drag and the LARES 2 space experiment. European Physical Journal Plus, 2018, 133, 1.	2.6	6
15	A new laser-ranged satellite for General Relativity and space geodesy: I. An introduction to the LARES2 space experiment. European Physical Journal Plus, 2017, 132, 1.	2.6	28
16	A new laser-ranged satellite for General Relativity and space geodesy: II. Monte Carlo simulations and covariance analyses of the LARES 2 experiment. European Physical Journal Plus, 2017, 132, 1.	2.6	14
17	El NiÃ±o effects on earth rotation parameters from LAGEOS and LARES orbital analysis. , 2017, , .		1
18	A test of general relativity using the LARES and LAGEOS satellites and a GRACE Earth gravity model. European Physical Journal C, 2016, 76, 120.	3.9	105

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19	Monitoring global climate change using SLR data from LARES and other geodetic satellites. Proceedings of SPIE, 2016, , .	0.8	1
20	LARES satellite thermal forces and a test of general relativity. , 2016, , .		3
21	Effects of Climate Change on Earthâ€™s Parameters - An Example of Exabyte-sized System. , 2016, , .		1
22	The Contribution of LARES to Global Climate Change Studies With Geodetic Satellites. , 2015, , .		5
23	LARES mission operations. , 2015, , .		2
24	Overview of the ILRS Contribution to the Development of ITRF2013. International Association of Geodesy Symposia, 2015, , 101-108.	0.4	5
25	Analysis of the angle-only orbit determination for optical tracking strategy of Korea GEO satellite, COMS. Advances in Space Research, 2015, 56, 1056-1066.	2.6	13
26	Preliminary orbital analysis of the LARES space experiment. European Physical Journal Plus, 2015, 130, 1.	2.6	13
27	Quality assessment of LARES satellite ranging data: LARES contribution for improving the terrestrial reference frame. , 2015, , .		5
28	Orbital predictions for the LARES satellite mission: The International Space Time Analysis Research Center (ISTARC). , 2015, , .		0
29	Contribution of LARES and geodetic satellites on environmental monitoring. , 2015, , .		4
30	Dragging of inertial frames, fundamental physics, and satellite laser ranging. , 2014, , 157-186.		1
31	Fundamental Physics and General Relativity with the LARES and LAGEOS satellites. Nuclear Physics, Section B, Proceedings Supplements, 2013, 243-244, 180-193.	0.4	35
32	Monte Carlo simulations of the LARES space experiment to test General Relativity and fundamental physics. Classical and Quantum Gravity, 2013, 30, 235009.	4.0	29
33	Testing General Relativity and gravitational physics using the LARES satellite. European Physical Journal Plus, 2012, 127, 1.	2.6	59
34	Phenomenology of the Lense-Thirring effect in the Solar System: Measurement of frame-dragging with laser ranged satellites. New Astronomy, 2012, 17, 341-346.	1.8	27
35	The Earth's frame-dragging via laser-ranged satellites: A Response to â€œSome considerations on the present-day results for the detection of frame-dragging after the final outcome of GP-Bâ€•by Iorio L.. Europhysics Letters, 2011, 96, 30002.	2.0	17
36	Testing gravitational physics with satellite laser ranging. European Physical Journal Plus, 2011, 126, 1.	2.6	52

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37	Gravitomagnetism and Its Measurement with Laser Ranging to the LAGEOS Satellites and GRACE Earth Gravity Models. Astrophysics and Space Science Library, 2010, , 371-434.	2.7	37
38	The ILRS EOP Time Series. Artificial Satellites, 2010, 45, 41-48.	0.7	3
39	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 Science Reviews, 2009, 148, 71-104.	8.1	65
40	DPOD2005: An extension of ITRF2005 for Precise Orbit Determination. Advances in Space Research, 2009, 44, 535-544.	2.6	47
41	PROBING GRAVITY IN NEO'S WITH HIGH-ACCURACY LASER-RANGED TEST MASSES. , 2009, , 399-413.		3
42	The goals, achievements, and tools of modern geodesy. , 2009, , 15-88.		12
43	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
44	Prospects in the orbital and rotational dynamics of the Moon with the advent of sub-centimeter lunar laser ranging. Advances in Space Research, 2008, 42, 1378-1390.	2.6	23
45	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
46	PROBING GRAVITY IN NEO'S WITH HIGH-ACCURACY LASER-RANGED TEST MASSES. International Journal of Modern Physics D, 2007, 16, 2271-2285.	2.1	18
47	A ray-tracing technique for improving Satellite Laser Ranging atmospheric delay corrections, including the effects of horizontal refractivity gradients. Journal of Geophysical Research, 2007, 112, .	3.3	30
48	GGOS Working Group on Ground Networks Communications. , 2007, , 719-726.		3
49	Validation of improved atmospheric refraction models for Satellite Laser Ranging (SLR). , 2007, , 844-852.		1
50	Tropospheric water vapor from solar spectrometry and comparison with Jason microwave radiometer measurements. Journal of Geophysical Research, 2006, 111, .	3.3	7
51	Determination of frame-dragging using Earth gravity models from CHAMP and GRACE. New Astronomy, 2006, 11, 527-550.	1.8	70
52	On 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. New Astronomy, 2005, 10, 636-651.	1.8	33
53	Permanent facility for calibration/validation of satellite altimetry: GAVDOS. , 2004, 5569, 14.		3
54	The GAVDOS Mean Sea Level and Altimeter Calibration Facility: Results for Jason-1. Marine Geodesy, 2004, 27, 631-655.	2.0	34

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55	A confirmation of the general relativistic prediction of the Lenseâ€“Thirring effect. Nature, 2004, 431, 958-960.	27.8	417
56	LAGEOS II perigee rate and eccentricity vector excitations residuals and the Yarkovskyâ€“Schach effect. Planetary and Space Science, 2004, 52, 699-710.	1.7	31
57	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
58	High-accuracy zenith delay prediction at optical wavelengths. Geophysical Research Letters, 2004, 31, .	4.0	164
59	GAVDOS: A satellite radar altimeter calibration and sea-level monitoring site on the island of Gavdos, Crete. Elsevier Oceanography Series, 2003, 69, 258-264.	0.1	3
60	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
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	Measuring the relativistic perigee advance with satellite laser ranging. Classical and Quantum Gravity, 2002, 19, 4301-4309.	4.0	32
63	Improved mapping functions for atmospheric refraction correction in SLR. Geophysical Research Letters, 2002, 29, 53-1-53-4.	4.0	99
64	Dynamical Determination of Origin and Scale in the Earth System from Satellite Laser Ranging. International Association of Geodesy Symposia, 2002, , 36-41.	0.4	11
65	Introduction To The Special Issue Of The Symposium Evolving Geodesy. Surveys in Geophysics, 2001, 22, 427-429.	4.6	1
66	A High-Resolution Geoid for the Establishment of the GAVDOS Multi-Satellite Calibration Site. International Association of Geodesy Symposia, 2001, , 347-354.	0.4	3
67	The terrestrial reference frame and the dynamic Earth. Eos, 2001, 82, 273-279.	0.1	21
68	COSMIC:Geodetic Applications in Improving Earth's Gravity Model. Terrestrial, Atmospheric and Oceanic Sciences, 2000, 11, 365.	0.6	10
69	Geodetic Applications of the ROCSAT-3/COSMIC Mission. International Association of Geodesy Symposia, 2000, , 214-217.	0.4	0
70	Scientific objectives of current and future WEGENER activities. Tectonophysics, 1998, 294, 177-223.	2.2	13
71	Test of General Relativity and Measurement of the Lense-Thirring Effect with Two Earth Satellites. Science, 1998, 279, 2100-2103.	12.6	200
72	New high-resolution model developed for earth's gravitational field. Eos, 1998, 79, 113-113.	0.1	34

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73	Preliminary Results from the Joint GSFC/DMA Gravity Model Project. International Association of Geodesy Symposia, 1996, , 92-110.	0.4	1
74	The Laser Retroreflector Experiment on GPS-35 and 36. International Association of Geodesy Symposia, 1996, , 154-158.	0.4	5
75	Comparison of GPS S/C orbits determined from GPS and SLR tracking data. Advances in Space Research, 1995, 16, 55-58.	2.6	28
76	Contemporary global horizontal crustal motion. Geophysical Journal International, 1994, 119, 511-520.	2.4	38
77	A geopotential model from satellite tracking, altimeter, and surface gravity data: GEM-T3. Journal of Geophysical Research, 1994, 99, 2815-2839.	3.3	62
78	Gravity model development for TOPEX/POSEIDON: Joint Gravity Models 1 and 2. Journal of Geophysical Research, 1994, 99, 24421.	3.3	184
79	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
80	Expected orbit determination performance for the TOPEX/Poseidon mission. IEEE Transactions on Geoscience and Remote Sensing, 1993, 31, 333-354.	6.3	29
81	Improvements in the accuracy of Goddard Earth Models (GEM). Geodynamic Series, 1993, , 191-212.	0.1	5
82	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
83	An improved error assessment for the GEMâ€T1 Gravitational Model. Journal of Geophysical Research, 1991, 96, 20023-20040.	3.3	18
84	The role of laser determined orbits in geodesy and geophysics. Advances in Space Research, 1991, 11, 111-118.	2.6	2
85	The determination of present-day tectonic motions from laser ranging to LAGEOS. , 1990, , 221-240.		2
86	Tectonic motion and deformation from satellite laser ranging to LAGEOS. Journal of Geophysical Research, 1990, 95, 22013-22041.	3.3	127
87	The GEMâ€T2 Gravitational Model. Journal of Geophysical Research, 1990, 95, 22043-22071.	3.3	162
88	Plate Motions and Deformation from Lageos. International Association of Geodesy Symposia, 1990, , 21-29.	0.4	1
89	A new gravitational model for the Earth from satellite tracking data: GEMâ€T1. Journal of Geophysical Research, 1988, 93, 6169-6215.	3.3	159
90	On the geodetic applications of simultaneous range differences to LAGEOS. Journal of Geophysical Research, 1985, 90, 9431.	3.3	5

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91	The effect of earth orientation errors in baseline determination. Bulletin Geodesique, 1983, 57, 273-282.	0.4	5