Jean-Luc Margot

List of Publications by Year
in descending order

109 papers	6,554 citations	71102 41 h-index	69250 77 g-index
112 all docs	112 docs citations	112 times ranked	3354 citing authors

#	Article	IF	Citations
1	Gravity Field and Internal Structure of Mercury from MESSENGER. Science, 2012, 336, 214-217.	12.6	305
2	Large Longitude Libration of Mercury Reveals a Molten Core. Science, 2007, 316, 710-714.	12.6	304
3	Radar Imaging of Binary Near-Earth Asteroid (66391) 1999 KW4. Science, 2006, 314, 1276-1280.	12.6	254
4	Photometric survey of binary near-Earth asteroids. Icarus, 2006, 181, 63-93.	2.5	250
5	Binary Asteroids in the Near-Earth Object Population. Science, 2002, 296, 1445-1448.	12.6	249
6	Topography of the Northern Hemisphere of Mercury from MESSENGER Laser Altimetry. Science, 2012, 336, 217-220.	12.6	223
7	ARCHITECTURE OF PLANETARY SYSTEMS BASED ONKEPLERDATA: NUMBER OF PLANETS AND COPLANARITY. Astrophysical Journal, 2012, 761, 92.	4.5	211
8	The curious case of Mercury's internal structure. Journal of Geophysical Research E: Planets, 2013, 118, 1204-1220.	3.6	210
9	Orbit and bulk density of the OSIRIS-REx target Asteroid (101955) Bennu. Icarus, 2014, 235, 5-22.	2.5	193
10	Shape model and surface properties of the OSIRIS-REx target Asteroid (101955) Bennu from radar and lightcurve observations. Icarus, 2013, 226, 629-640.	2.5	186
11	Radar Observations of Asteroid 216 Kleopatra. Science, 2000, 288, 836-839.	12.6	172
12	Direct Detection of the Yarkovsky Effect by Radar Ranging to Asteroid 6489 Golevka. Science, 2003, 302, 1739-1742.	12.6	172
13	No evidence for thick deposits of ice at the lunar south pole. Nature, 2006, 443, 835-837.	27.8	171
14	Topography of the Lunar Poles from Radar Interferometry: A Survey of Cold Trap Locations. Science, 1999, 284, 1658-1660.	12.6	165
15	Spin Rate of Asteroid (54509) 2000 PH5 Increasing Due to the YORP Effect. Science, 2007, 316, 274-277.	12.6	147
16	Direct Detection of the Asteroidal YORP Effect. Science, 2007, 316, 272-274.	12.6	146
17	Asteroids Do Have Satellites. , 2002, , 289-312.		134
18	Dynamical Configuration of Binary Near-Earth Asteroid (66391) 1999 KW4. Science, 2006, 314, 1280-1283.	12.6	119

#	Article	IF	Citations
19	Radar observations and a physical model of binary near-Earth asteroid 65803 Didymos, target of the DART mission. Icarus, 2020, 348, 113777.	2.5	106
20	Near-Earth asteroid surface roughness depends on compositional class. Icarus, 2008, 198, 294-304.	2.5	102
21	Mercury's moment of inertia from spin and gravity data. Journal of Geophysical Research, 2012, 117, .	3.3	98
22	ARE PLANETARY SYSTEMS FILLED TO CAPACITY? A STUDY BASED ONKEPLERRESULTS. Astrophysical Journal, 2013, 767, 115.	4.5	92
23	Asteroid Radar Astronomy. , 2002, , 151-168.		91
24	Radar observations and a physical model of Asteroid 1580 Betulia. Icarus, 2007, 186, 152-177.	2.5	87
25	Asteroid 1950 DA's Encounter with Earth in 2880: Physical Limits of Collision Probability Prediction. Science, 2002, 296, 132-136.	12.6	80
26	THE CANADA-FRANCE ECLIPTIC PLANE SURVEYâ€"L3 DATA RELEASE: THE ORBITAL STRUCTURE OF THE KUIPER BELT. Astronomical Journal, 2009, 137, 4917-4935.	4.7	78
27	Radar observations and the shape of near-Earth asteroid 2008 EV5. Icarus, 2011, 212, 649-660.	2.5	77
28	Focused 70-cm Wavelength Radar Mapping of the Moon. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 4032-4042.	6.3	74
29	Evolution of Mercury's obliquity. Icarus, 2006, 181, 327-337.	2.5	71
30	Thickness of the crust of Mercury from geoidâ€toâ€topography ratios. Geophysical Research Letters, 2015, 42, 1029-1038.	4.0	67
31	Radar observations of asteroid 25143 Itokawa (1998 SF36). Meteoritics and Planetary Science, 2004, 39, 407-424.	1.6	66
32	Radar and optical observations and physical modeling of triple near-Earth Asteroid (136617) 1994 CC. Icarus, 2011, 216, 241-256.	2.5	56
33	DETECTION OF SEMIMAJOR AXIS DRIFTS IN 54 NEAR-EARTH ASTEROIDS: NEW MEASUREMENTS OF THE YARKOVSKY EFFECT. Astronomical Journal, 2012, 144, 60.	4.7	55
34	A Low-Density M-type Asteroid in the Main Belt. Science, 2003, 300, 1939-1942.	12.6	52
35	Binary asteroid systems: Tidal end states and estimates of material properties. Icarus, 2011, 212, 661-676.	2.5	46
36	Radar and photometric observations and shape modeling of contact binary near-Earth Asteroid (8567) 1996 HW1. Icarus, 2011, 214, 210-227.	2.5	46

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37	ORBITS OF NEAR-EARTH ASTEROID TRIPLES 2001 SN263 AND 1994 CC: PROPERTIES, ORIGIN, AND EVOLUTION. Astronomical Journal, 2011, 141, 154.	4.7	45
38	Radar imaging of Saturn's rings. Icarus, 2005, 177, 32-62.	2.5	44
39	The Albedo, Size, and Density of Binary Kuiper Belt Object (47171) 1999 TC36. Astrophysical Journal, 2006, 643, 556-566.	4.5	44
40	First <scp>MESSENGER</scp> orbital observations of Mercury's librations. Geophysical Research Letters, 2015, 42, 7881-7889.	4.0	44
41	Radar and infrared observations of binary near-Earth Asteroid 2002 CE26. Icarus, 2006, 184, 198-210.	2.5	43
42	The equatorial shape and gravity field of Mercury from MESSENGER flybys 1 and 2. Icarus, 2010, 209, 88-100.	2.5	43
43	NEAR-EARTH BINARIES AND TRIPLES: ORIGIN AND EVOLUTION OF SPIN-ORBITAL PROPERTIES. Astronomical Journal, 2012, 143, 24.	4.7	43
44	The tides of Mercury and possible implications for its interior structure. Journal of Geophysical Research E: Planets, 2014, 119, 850-866.	3.6	43
45	Yarkovsky Drift Detections for 247 Near-Earth Asteroids. Astronomical Journal, 2020, 159, 92.	4.7	43
46	Mercury's gravity, tides, and spin from MESSENGER radio science data. Journal of Geophysical Research E: Planets, 2016, 121, 1627-1640.	3.6	42
47	NEAR-EARTH ASTEROID SATELLITE SPINS UNDER SPINâ€“ORBIT COUPLING. Astronomical Journal, 2015, 149, 80.	4.7	41
48	Physical modeling of near-Earth Asteroid (29075) 1950 DA. Icarus, 2007, 190, 608-621.	2.5	39
49	The Extreme Kuiper Belt Binary 2001 QW ₃₂₂. Science, 2008, 322, 432-434.	12.6	39
50	Episodic bright and dark spots on Uranus. Icarus, 2012, 220, 6-22.	2.5	39
51	Near-Earth Asteroid 2005 CR37: Radar images and photometry of a candidate contact binary. Icarus, 2006, 182, 474-481.	2.5	38
52	RADAR IMAGING AND CHARACTERIZATION OF THE BINARY NEAR-EARTH ASTEROID (185851) 2000 DP107. Astronomical Journal, 2015, 150, 54.	4.7	38
53	The lowâ€degree shape of Mercury. Geophysical Research Letters, 2015, 42, 6951-6958.	4.0	36
54	Multi-wavelength observations of Asteroid 2100 Ra-Shalom. Icarus, 2008, 193, 20-38.	2.5	34

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55	Tidal evolution of close binary asteroid systems. Celestial Mechanics and Dynamical Astronomy, 2010, 108, 315-338.	1.4	32
56	THE ROLE OF KOZAI CYCLES IN NEAR-EARTH BINARY ASTEROIDS. Astronomical Journal, 2012, 143, 59.	4.7	32
57	PREDICTING PLANETS INKEPLERMULTI-PLANET SYSTEMS. Astrophysical Journal, 2012, 751, 23.	4.5	32
58	Digital elevation models of the Moon from Earth-based radar interferometry. IEEE Transactions on Geoscience and Remote Sensing, 2000, 38, 1122-1133.	6.3	31
59	A Mercury orientation model including non-zero obliquity and librations. Celestial Mechanics and Dynamical Astronomy, 2009, 105, 329-336.	1.4	28
60	Consequences of a solid inner core on Mercuryâ€™s spin configuration. Icarus, 2016, 264, 443-455.	2.5	27
61	The topography of Tycho Crater. Journal of Geophysical Research, 1999, 104, 11875-11882.	3.3	26
62	Mercuryâ€™s Internal Structure. , 2018, , 85-113.		26
63	Spin state and moment of inertia of Venus. Nature Astronomy, 2021, 5, 676-683.	10.1	26
64	Radar observations of asteroid 1999 JM8. Meteoritics and Planetary Science, 2002, 37, 779-792.	1.6	25
65	Long-period forcing of Mercury's libration in longitude. Icarus, 2007, 187, 365-373.	2.5	25
66	Radar observations of Itokawa in 2004 and improved shape estimation. Meteoritics and Planetary Science, 2005, 40, 1563-1574.	1.6	24
67	Physical properties of near-Earth Asteroid (33342) 1998 WT24. Icarus, 2008, 195, 614-621.	2.5	24
68	Radar observations and a physical model of Asteroid 4660 Nereus, a prime space mission target. Icarus, 2009, 201, 153-166.	2.5	24
69	CAPABILITIES OF EARTH-BASED RADAR FACILITIES FOR NEAR-EARTH ASTEROID OBSERVATIONS. Astronomical Journal, 2016, 152, 99.	4.7	23
70	BINARY ASTEROID ENCOUNTERS WITH TERRESTRIAL PLANETS: TIMESCALES AND EFFECTS. Astronomical Journal, 2012, 143, 25.	4.7	22
71	Resonant forcing of Mercury's libration in longitude. Icarus, 2009, 199, 1-8.	2.5	21
72	Analytical model of the long-period forced longitude librations of Mercury. Icarus, 2010, 207, 536-544.	2.5	21

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73	Radar observations and a physical model of contact binary Asteroid 4486 Mithra. Icarus, 2010, 208, 207-220.	2.5	21
74	A Search for Technosignatures from TRAPPIST-1, LHS 1140, and 10 Planetary Systems in the Kepler Field with the Green Bank Telescope at 1.15â€“1.73 GHz. Astronomical Journal, 2019, 157, 122.	4.7	21
75	A Search for Technosignatures around 31 Sun-like Stars with the Green Bank Telescope at 1.15â€“1.73 GHz. Astronomical Journal, 2021, 161, 55.	4.7	21
76	Physical, spectral, and dynamical properties of asteroid (107) Camilla and its satellites. Icarus, 2018, 309, 134-161.	2.5	20
77	ORBITS, MASSES, AND EVOLUTION OF MAIN BELT TRIPLE (87) SYLVIA. Astronomical Journal, 2012, 144, 70.	4.7	19
78	Effect of coreâ€“mantle and tidal torques on Mercuryâ€™s spin axis orientation. Icarus, 2014, 231, 206-220.	2.5	18
79	Asteroid 1566 Icarusâ€™sÂSize, Shape, Orbit, and Yarkovsky Drift from Radar Observations. Astronomical Journal, 2017, 153, 108.	4.7	18
80	Expected precision of Europa Clipper gravity measurements. Icarus, 2018, 314, 35-49.	2.5	18
81	Tidal end states of binary asteroid systems with a nonspherical component. Icarus, 2014, 229, 418-422.	2.5	17
82	Radar imaging and physical characterization of near-Earth Asteroid (162421) 2000 ET70. Icarus, 2013, 226, 323-335.	2.5	15
83	THE SHORT ROTATION PERIOD OF HIâ€™IAKA, HAUMEAâ€™S LARGEST SATELLITE. Astronomical Journal, 2016, 152, 195.	4.7	15
84	Worlds of mutual motion. Nature, 2002, 416, 694-695.	27.8	13
85	Detection of large grains in the coma of Comet C/2001 A2 (LINEAR) from Arecibo radar observations. Icarus, 2006, 181, 432-441.	2.5	13
86	Radar observations of Comet P/2005 JQ5 (Catalina). Icarus, 2006, 184, 285-288.	2.5	13
87	MASS AND DENSITY OF THE B-TYPE ASTEROID (702) ALAUDA. Astrophysical Journal, 2011, 727, 69.	4.5	13
88	Mercury's rotational parameters from MESSENGER image and laser altimeter data: A feasibility study. Planetary and Space Science, 2015, 117, 64-72.	1.7	13
89	A Search for Technosignatures from 14 Planetary Systems in the Kepler Field with the Green Bank Telescope at 1.15â€“1.73 GHz. Astronomical Journal, 2018, 155, 209.	4.7	12
90	Radar detection of Asteroid 2002 AA29. Icarus, 2003, 166, 271-275.	2.5	11

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91	Radar imaging of Asteroid 7 Iris. Icarus, 2010, 207, 285-294.	2.5	11
92	A QUANTITATIVE CRITERION FOR DEFINING PLANETS. Astronomical Journal, 2015, 150, 185.	4.7	11
93	A Machine Learningâ€“based Direction-of-origin Filter for the Identification of Radio Frequency Interference in the Search for Technosignatures. Astronomical Journal, 2022, 163, 76.	4.7	11
94	The mean rotation rate of Venus from 29â€¯years of Earth-based radar observations. Icarus, 2019, 332, 19-23.	2.5	10
95	No Evidence of Purported Lunar Effect on Hospital Admission Rates or Birth Rates. Nursing Research, 2015, 64, 168-175.	1.7	9
96	Looking Below the Moon's Surface With Radar. Eos, 2007, 88, 13.	0.1	7
97	Prospects of Dynamical Determination of General Relativity Parameter Î² and Solar Quadrupole Moment with Asteroid Radar Astronomy. Astrophysical Journal, 2017, 845, 166.	4.5	7
98	A Data-Taking System for Planetary Radar Applications. Journal of Astronomical Instrumentation, 2021, 10, .	1.5	7
99	Radar Observations of Asteroid 288 Glauke. Icarus, 2001, 152, 201-204.	2.5	6
100	Probing general relativity with radar astrometry in the inner solar system. Proceedings of the International Astronomical Union, 2009, 5, 183-188.	0.0	6
101	IMPROVED ALGORITHMS FOR RADAR-BASED RECONSTRUCTION OF ASTEROID SHAPES. Astronomical Journal, 2015, 150, 114.	4.7	5
102	Analysis of Four-band WISE Observations of Asteroids. Planetary Science Journal, 2022, 3, 30.	3.6	5
103	Radar Observations of Near-Earth Asteroids. Highlights of Astronomy, 2005, 13, 759-759.	0.0	3
104	Insufficient Evidence of Purported Lunar Effect on Pollination in Ephedra. Journal of Biological Rhythms, 2015, 30, 454-456.	2.6	2
105	Minor Planet Binaries. Highlights of Astronomy, 2005, 13, 760-760.	0.0	0
106	The Role of Radar Astronomy in Assessing and Mitigating the Asteroid Impact Hazard. Proceedings of the International Astronomical Union, 2012, 10, 476-477.	0.0	0
107	Spin-orbit coupling in binary asteroids. Proceedings of the International Astronomical Union, 2015, 10, 66-68.	0.0	0
108	Rejoinder to RomÃ¡n, Gich, and Soriano (2015). Nursing Research, 2015, 64, 175-176.	1.7	0

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109	COORDINATION OF PLANETARY COORDINATE SYSTEM RECOMMENDATIONS BY THE IAU WORKING GROUP ON CARTOGRAPHIC COORDINATES AND ROTATIONAL ELEMENTS â€“ 2020 STATUS AND FUTURE. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLIII-B3-2020, 1091-1097.	0.2	0