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	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
2	Analysis of Four-band WISE Observations of Asteroids. Planetary Science Journal, 2022, 3, 30.	3.6	5
3	A Data-Taking System for Planetary Radar Applications. Journal of Astronomical Instrumentation, 2021, 10, .	1.5	7
4	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
5	Spin state and moment of inertia of Venus. Nature Astronomy, 2021, 5, 676-683.	10.1	26
6	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
7	Yarkovsky Drift Detections for 247 Near-Earth Asteroids. Astronomical Journal, 2020, 159, 92.	4.7	43
8	The mean rotation rate of Venus from 29â€¯years of Earth-based radar observations. Icarus, 2019, 332, 19-23.	2.5	10
9	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
10	Physical, spectral, and dynamical properties of asteroid (107) Camilla and its satellites. Icarus, 2018, 309, 134-161.	2.5	20
11	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
12	Mercuryâ€™s Internal Structure. , 2018, , 85-113.		26
13	Expected precision of Europa Clipper gravity measurements. Icarus, 2018, 314, 35-49.	2.5	18
14	Asteroid 1566 Icarusâ€™sÂSize, Shape, Orbit, and Yarkovsky Drift from Radar Observations. Astronomical Journal, 2017, 153, 108.	4.7	18
15	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
16	THE SHORT ROTATION PERIOD OF HIâ€™IAKA, HAUMEAâ€™S LARGEST SATELLITE. Astronomical Journal, 2016, 152, 195.	4.7	15
17	Mercury's gravity, tides, and spin from MESSENGER radio science data. Journal of Geophysical Research E: Planets, 2016, 121, 1627-1640.	3.6	42
18	CAPABILITIES OF EARTH-BASED RADAR FACILITIES FOR NEAR-EARTH ASTEROID OBSERVATIONS. Astronomical Journal, 2016, 152, 99.	4.7	23

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19	Consequences of a solid inner core on Mercuryâ€™s spin configuration. Icarus, 2016, 264, 443-455.	2.5	27
20	Spin-orbit coupling in binary asteroids. Proceedings of the International Astronomical Union, 2015, 10, 66-68.	0.0	0
21	A QUANTITATIVE CRITERION FOR DEFINING PLANETS. Astronomical Journal, 2015, 150, 185.	4.7	11
22	The lowâ€degree shape of Mercury. Geophysical Research Letters, 2015, 42, 6951-6958.	4.0	36
23	IMPROVED ALGORITHMS FOR RADAR-BASED RECONSTRUCTION OF ASTEROID SHAPES. Astronomical Journal, 2015, 150, 114.	4.7	5
24	First <scp>MESSENGER</scp> orbital observations of Mercury's librations. Geophysical Research Letters, 2015, 42, 7881-7889.	4.0	44
25	No Evidence of Purported Lunar Effect on Hospital Admission Rates or Birth Rates. Nursing Research, 2015, 64, 168-175.	1.7	9
26	Rejoinder to RomÃ¡n, Gich, and Soriano (2015). Nursing Research, 2015, 64, 175-176.	1.7	0
27	NEAR-EARTH ASTEROID SATELLITE SPINS UNDER SPINâ€“ORBIT COUPLING. Astronomical Journal, 2015, 149, 80.	4.7	41
28	RADAR IMAGING AND CHARACTERIZATION OF THE BINARY NEAR-EARTH ASTEROID (185851) 2000 DP107. Astronomical Journal, 2015, 150, 54.	4.7	38
29	Thickness of the crust of Mercury from geoidâ€toâ€topography ratios. Geophysical Research Letters, 2015, 42, 1029-1038.	4.0	67
30	Insufficient Evidence of Purported Lunar Effect on Pollination in Ephedra. Journal of Biological Rhythms, 2015, 30, 454-456.	2.6	2
31	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
32	Effect of coreâ€“mantle and tidal torques on Mercuryâ€™s spin axis orientation. Icarus, 2014, 231, 206-220.	2.5	18
33	Orbit and bulk density of the OSIRIS-REx target Asteroid (101955) Bennu. Icarus, 2014, 235, 5-22.	2.5	193
34	Tidal end states of binary asteroid systems with a nonspherical component. Icarus, 2014, 229, 418-422.	2.5	17
35	The tides of Mercury and possible implications for its interior structure. Journal of Geophysical Research E: Planets, 2014, 119, 850-866.	3.6	43
36	Radar imaging and physical characterization of near-Earth Asteroid (162421) 2000 ET70. Icarus, 2013, 226, 323-335.	2.5	15

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37	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
38	ARE PLANETARY SYSTEMS FILLED TO CAPACITY? A STUDY BASED ONKEPLERRESULTS. Astrophysical Journal, 2013, 767, 115.	4.5	92
39	The curious case of Mercury's internal structure. Journal of Geophysical Research E: Planets, 2013, 118, 1204-1220.	3.6	210
40	Gravity Field and Internal Structure of Mercury from MESSENGER. Science, 2012, 336, 214-217.	12.6	305
41	THE ROLE OF KOZAI CYCLES IN NEAR-EARTH BINARY ASTEROIDS. Astronomical Journal, 2012, 143, 59.	4.7	32
42	BINARY ASTEROID ENCOUNTERS WITH TERRESTRIAL PLANETS: TIMESCALES AND EFFECTS. Astronomical Journal, 2012, 143, 25.	4.7	22
43	DETECTION OF SEMIMAJOR AXIS DRIFTS IN 54 NEAR-EARTH ASTEROIDS: NEW MEASUREMENTS OF THE YARKOVSKY EFFECT. Astronomical Journal, 2012, 144, 60.	4.7	55
44	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
45	Topography of the Northern Hemisphere of Mercury from MESSENGER Laser Altimetry. Science, 2012, 336, 217-220.	12.6	223
46	ORBITS, MASSES, AND EVOLUTION OF MAIN BELT TRIPLE (87) SYLVIA. Astronomical Journal, 2012, 144, 70.	4.7	19
47	ARCHITECTURE OF PLANETARY SYSTEMS BASED ONKEPLERDATA: NUMBER OF PLANETS AND COPLANARITY. Astrophysical Journal, 2012, 761, 92.	4.5	211
48	NEAR-EARTH BINARIES AND TRIPLES: ORIGIN AND EVOLUTION OF SPIN-ORBITAL PROPERTIES. Astronomical Journal, 2012, 143, 24.	4.7	43
49	Mercury's moment of inertia from spin and gravity data. Journal of Geophysical Research, 2012, 117, .	3.3	98
50	PREDICTING PLANETS INKEPLERMULTI-PLANET SYSTEMS. Astrophysical Journal, 2012, 751, 23.	4.5	32
51	Episodic bright and dark spots on Uranus. Icarus, 2012, 220, 6-22.	2.5	39
52	MASS AND DENSITY OF THE B-TYPE ASTEROID (702) ALAUDA. Astrophysical Journal, 2011, 727, 69.	4.5	13
53	Radar and optical observations and physical modeling of triple near-Earth Asteroid (136617) 1994 CC. Icarus, 2011, 216, 241-256.	2.5	56
54	Binary asteroid systems: Tidal end states and estimates of material properties. Icarus, 2011, 212, 661-676.	2.5	46

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55	Radar observations and the shape of near-Earth asteroid 2008 EV5. Icarus, 2011, 212, 649-660.	2.5	77
56	Radar and photometric observations and shape modeling of contact binary near-Earth Asteroid (8567) 1996 HW1. Icarus, 2011, 214, 210-227.	2.5	46
57	ORBITS OF NEAR-EARTH ASTEROID TRIPLES 2001 SN263 AND 1994 CC: PROPERTIES, ORIGIN, AND EVOLUTION. Astronomical Journal, 2011, 141, 154.	4.7	45
58	Tidal evolution of close binary asteroid systems. Celestial Mechanics and Dynamical Astronomy, 2010, 108, 315-338.	1.4	32
59	Radar imaging of Asteroid 7 Iris. Icarus, 2010, 207, 285-294.	2.5	11
60	Analytical model of the long-period forced longitude librations of Mercury. Icarus, 2010, 207, 536-544.	2.5	21
61	Radar observations and a physical model of contact binary Asteroid 4486 Mithra. Icarus, 2010, 208, 207-220.	2.5	21
62	The equatorial shape and gravity field of Mercury from MESSENGER flybys 1 and 2. Icarus, 2010, 209, 88-100.	2.5	43
63	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
64	Radar observations and a physical model of Asteroid 4660 Nereus, a prime space mission target. Icarus, 2009, 201, 153-166.	2.5	24
65	A Mercury orientation model including non-zero obliquity and librations. Celestial Mechanics and Dynamical Astronomy, 2009, 105, 329-336.	1.4	28
66	Resonant forcing of Mercury's libration in longitude. Icarus, 2009, 199, 1-8.	2.5	21
67	Probing general relativity with radar astrometry in the inner solar system. Proceedings of the International Astronomical Union, 2009, 5, 183-188.	0.0	6
68	Multi-wavelength observations of Asteroid 2100 Ra-Shalom. Icarus, 2008, 193, 20-38.	2.5	34
69	Physical properties of near-Earth Asteroid (33342) 1998 WT24. Icarus, 2008, 195, 614-621.	2.5	24
70	Near-Earth asteroid surface roughness depends on compositional class. Icarus, 2008, 198, 294-304.	2.5	102
71	The Extreme Kuiper Belt Binary 2001 QW ₃₂₂. Science, 2008, 322, 432-434.	12.6	39
72	Large Longitude Libration of Mercury Reveals a Molten Core. Science, 2007, 316, 710-714.	12.6	304

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73	Direct Detection of the Asteroidal YORP Effect. Science, 2007, 316, 272-274.	12.6	146
74	Spin Rate of Asteroid (54509) 2000 PH5 Increasing Due to the YORP Effect. Science, 2007, 316, 274-277.	12.6	147
75	Looking Below the Moon's Surface With Radar. Eos, 2007, 88, 13.	0.1	7
76	Radar observations and a physical model of Asteroid 1580 Betulia. Icarus, 2007, 186, 152-177.	2.5	87
77	Physical modeling of near-Earth Asteroid (29075) 1950 DA. Icarus, 2007, 190, 608-621.	2.5	39
78	Focused 70-cm Wavelength Radar Mapping of the Moon. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 4032-4042.	6.3	74
79	Long-period forcing of Mercury's libration in longitude. Icarus, 2007, 187, 365-373.	2.5	25
80	The Albedo, Size, and Density of Binary Kuiper Belt Object (47171) 1999 TC36. Astrophysical Journal, 2006, 643, 556-566.	4.5	44
81	No evidence for thick deposits of ice at the lunar south pole. Nature, 2006, 443, 835-837.	27.8	171
82	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
83	Evolution of Mercury's obliquity. Icarus, 2006, 181, 327-337.	2.5	71
84	Near-Earth Asteroid 2005 CR37: Radar images and photometry of a candidate contact binary. Icarus, 2006, 182, 474-481.	2.5	38
85	Radar and infrared observations of binary near-Earth Asteroid 2002 CE26. Icarus, 2006, 184, 198-210.	2.5	43
86	Radar observations of Comet P/2005 JQ5 (Catalina). Icarus, 2006, 184, 285-288.	2.5	13
87	Photometric survey of binary near-Earth asteroids. Icarus, 2006, 181, 63-93.	2.5	250
88	Radar Imaging of Binary Near-Earth Asteroid (66391) 1999 KW4. Science, 2006, 314, 1276-1280.	12.6	254
89	Dynamical Configuration of Binary Near-Earth Asteroid (66391) 1999 KW4. Science, 2006, 314, 1280-1283.	12.6	119
90	Radar Observations of Near-Earth Asteroids. Highlights of Astronomy, 2005, 13, 759-759.	0.0	3

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91	Minor Planet Binaries. Highlights of Astronomy, 2005, 13, 760-760.	0.0	0
92	Radar imaging of Saturn's rings. Icarus, 2005, 177, 32-62.	2.5	44
93	Radar observations of Itokawa in 2004 and improved shape estimation. Meteoritics and Planetary Science, 2005, 40, 1563-1574.	1.6	24
94	Radar observations of asteroid 25143 Itokawa (1998 SF36). Meteoritics and Planetary Science, 2004, 39, 407-424.	1.6	66
95	Radar detection of Asteroid 2002 AA29. Icarus, 2003, 166, 271-275.	2.5	11
96	A Low-Density M-type Asteroid in the Main Belt. Science, 2003, 300, 1939-1942.	12.6	52
97	Direct Detection of the Yarkovsky Effect by Radar Ranging to Asteroid 6489 Golevka. Science, 2003, 302, 1739-1742.	12.6	172
98	Binary Asteroids in the Near-Earth Object Population. Science, 2002, 296, 1445-1448.	12.6	249
99	Asteroid 1950 DA's Encounter with Earth in 2880: Physical Limits of Collision Probability Prediction. Science, 2002, 296, 132-136.	12.6	80
100	Radar observations of asteroid 1999 JM8. Meteoritics and Planetary Science, 2002, 37, 779-792.	1.6	25
101	Worlds of mutual motion. Nature, 2002, 416, 694-695.	27.8	13
102	Asteroid Radar Astronomy. , 2002, , 151-168.		91
103	Asteroids Do Have Satellites. , 2002, , 289-312.		134
104	Radar Observations of Asteroid 288 Glauke. Icarus, 2001, 152, 201-204.	2.5	6
105	Radar Observations of Asteroid 216 Kleopatra. Science, 2000, 288, 836-839.	12.6	172
106	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
107	Topography of the Lunar Poles from Radar Interferometry: A Survey of Cold Trap Locations. Science, 1999, 284, 1658-1660.	12.6	165
108	The topography of Tycho Crater. Journal of Geophysical Research, 1999, 104, 11875-11882.	3.3	26

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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