

Fernando Roig

List of Publications by Year in descending order

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75
papers

2,280
citations

201674

27
h-index

223800

46
g-index

77
all docs

77
docs citations

77
times ranked

1828
citing authors

#	ARTICLE	IF	CITATIONS
1	A ring system detected around the Centaur (10199) Chariklo. <i>Nature</i> , 2014, 508, 72-75.	27.8	230
2	J-PLUS: The Javalambre Photometric Local Universe Survey. <i>Astronomy and Astrophysics</i> , 2019, 622, A176.	5.1	124
3	Reanalysis of asteroid families structure through visible spectroscopy. <i>Icarus</i> , 2005, 174, 54-80.	2.5	111
4	A Semianalytical Model for the Motion of the Trojan Asteroids: Proper Elements and Families. <i>Icarus</i> , 2001, 153, 391-415.	2.5	102
5	The Southern Photometric Local Universe Survey (S-PLUS): improved SEDs, morphologies, and redshifts with 12 optical filters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 489, 241-267.	4.4	92
6	A COMPARISON BETWEEN METHODS TO COMPUTE LYAPUNOV EXPONENTS. <i>Astronomical Journal</i> , 2001, 121, 1171-1179.	4.7	89
7	THE EVOLUTION OF ASTEROIDS IN THE JUMPING-JUPITER MIGRATION MODEL. <i>Astronomical Journal</i> , 2015, 150, 186.	4.7	80
8	Fugitives from the Vesta family. <i>Icarus</i> , 2008, 193, 85-95.	2.5	78
9	Origin of the Basaltic Asteroid 1459 Magnya: A Dynamical and Mineralogical Study of the Outer Main Belt. <i>Icarus</i> , 2002, 158, 343-359.	2.5	76
10	Taxonomy of asteroid families among the Jupiter Trojans: comparison between spectroscopic data and the Sloan Digital Sky Survey colors. <i>Astronomy and Astrophysics</i> , 2008, 483, 911-931.	5.1	71
11	Modeling the Historical Flux of Planetary Impactors. <i>Astronomical Journal</i> , 2017, 153, 103.	4.7	70
12	Selecting candidate V-type asteroids from the analysis of the Sloan Digital Sky Survey colors. <i>Icarus</i> , 2006, 183, 411-419.	2.5	69
13	On the V-type asteroids outside the Vesta family. <i>Astronomy and Astrophysics</i> , 2005, 441, 819-829.	5.1	68
14	V-type asteroids in the middle main belt. <i>Icarus</i> , 2008, 194, 125-136.	2.5	64
15	Mean Motion Resonances in the Transneptunian Region Part II: The 1 : 2, 3 : 4, and Weaker Resonances. <i>Icarus</i> , 2001, 150, 104-123.	2.5	60
16	Chemical abundances and kinematics of barium stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 459, 4299-4324.	4.4	54
17	The miniJPAS survey: A preview of the Universe in 56 colors. <i>Astronomy and Astrophysics</i> , 2021, 653, A31.	5.1	54
18	A multidomain approach to asteroid families'™ identification. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 433, 2075-2096.	4.4	50

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19	Mean Motion Resonances in the Trans-neptunian Region. <i>Icarus</i> , 2000, 148, 282-300.	2.5	49
20	JUMPING JUPITER CAN EXPLAIN MERCURY'S ORBIT. <i>Astrophysical Journal Letters</i> , 2016, 820, L30.	8.3	48
21	Two new V-type asteroids in the outer Main Belt?. <i>Planetary and Space Science</i> , 2009, 57, 229-234.	1.7	42
22	THE ORBITAL DISTRIBUTION OF TRANS-NEPTUNIAN OBJECTS BEYOND 50 au. <i>Astrophysical Journal Letters</i> , 2016, 827, L35.	8.3	37
23	The Role of Early Giant-planet Instability in Terrestrial Planet Formation. <i>Astronomical Journal</i> , 2021, 161, 50.	4.7	35
24	Masses of Kepler-46b, c from Transit Timing Variations. <i>Astronomical Journal</i> , 2017, 153, 198.	4.7	32
25	Chemical abundances and kinematics of a sample of metal-rich barium stars. <i>Astronomy and Astrophysics</i> , 2011, 533, A51.	5.1	31
26	The Determinant Role of Jupiter's Great Inequality in the Depletion of the Hecuba Gap. <i>Astronomical Journal</i> , 1998, 116, 1491-1500.	4.7	29
27	Close Approaches of Trans-Neptunian Objects to Pluto Have Left Observable Signatures on Their Orbital Distribution. <i>Astronomical Journal</i> , 2000, 119, 953-969.	4.7	28
28	Planetary Migration and the Effects of Mean Motion Resonances on Jupiter's Trojan Asteroids. <i>Astronomical Journal</i> , 2001, 122, 3485-3491.	4.7	28
29	Modeling close encounters with massive asteroids: a Markovian approach. <i>Astronomy and Astrophysics</i> , 2007, 465, 315-330.	5.1	27
30	The depletion of the Hecuba gap vs the long-lasting Hilda group. <i>Planetary and Space Science</i> , 1998, 46, 1425-1432.	1.7	24
31	Asteroids in the 2 : 1 resonance with Jupiter: dynamics and size distribution. <i>Monthly Notices of the Royal Astronomical Society</i> , 2002, 335, 417-431.	4.4	23
32	CD-62°1346: an extreme halo or hypervelocity CH star?. <i>Astronomy and Astrophysics</i> , 2012, 543, A58.	5.1	22
33	Dynamical dispersal of primordial asteroid families. <i>Icarus</i> , 2016, 266, 142-151.	2.5	22
34	Yarkovsky origin of the unstable asteroids in the 2/1 mean motion resonance with Jupiter. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005, 359, 1437-1455.	4.4	19
35	Effects of Planetary Migration on Natural Satellites of the Outer Planets. <i>Icarus</i> , 2002, 158, 483-498.	2.5	18
36	A symplectic mapping approach of the dynamics of the Hecuba gap. <i>Planetary and Space Science</i> , 1999, 47, 653-664.	1.7	16

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37	HIGH-RESOLUTION SPECTROSCOPIC OBSERVATIONS OF BINARY STARS AND YELLOW STRAGGLERS IN THREE OPEN CLUSTERS : NGC 2360, NGC 3680, AND NGC 5822. <i>Astronomical Journal</i> , 2014, 148, 83.	4.7	16
38	Chaotic diffusion caused by close encounters with several massive asteroids. <i>Astronomy and Astrophysics</i> , 2013, 550, A85.	5.1	15
39	Dynamical study of the Atira group of asteroids. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 458, 4471-4476.	4.4	14
40	Scattering V-type asteroids during the giant planet instability: a step for Jupiter, a leap for basalt. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 468, 1236-1244.	4.4	14
41	HIGH-RESOLUTION SPECTROSCOPIC OBSERVATIONS OF FOUR YELLOW-TYPE SYMBIOTIC STARS: CD-43 ^h 14304, HEN 3-1213, HEN 3-863, AND StH ^h 176. <i>Astronomical Journal</i> , 2009, 137, 118-128.	4.7	13
42	Origin and sustainability of the population of asteroids captured in the exterior resonance 1:2 with Mars. <i>Icarus</i> , 2011, 214, 632-644.	2.5	13
43	Chemical abundances and kinematics of TYC 5619-109-1. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, 774-786.	4.4	13
44	Interacting ellipsoids: a minimal model for the dynamics of rubble-pile bodies. <i>Icarus</i> , 2003, 165, 355-370.	2.5	10
45	Can a jumping-Jupiter trigger the Moon's formation impact?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 539-547.	4.4	10
46	Dynamical Origin and Terrestrial Impact Flux of Large Near-Earth Asteroids. <i>Astronomical Journal</i> , 2018, 155, 42.	4.7	9
47	Modeling the Chronologies and Size Distributions of Ceres and Vesta Craters. <i>Astronomical Journal</i> , 2020, 160, 110.	4.7	9
48	A study of two high-velocity red horizontal branch stars. <i>Astronomy and Astrophysics</i> , 2013, 559, A12.	5.1	8
49	Search for Sodium-rich Stars among Metal-poor Stars*. <i>Astronomical Journal</i> , 2019, 157, 70.	4.7	8
50	The first confirmation of V-type asteroids among the Mars crosser population. <i>Planetary and Space Science</i> , 2014, 92, 57-64.	1.7	7
51	OASI: A Brazilian Observatory Dedicated to the Study of Small Solar System Bodies's Some Results on NEO's Physical Properties. <i>Publications of the Astronomical Society of the Pacific</i> , 2020, 132, 065001.	3.1	7
52	High-resolution spectroscopic observations of the new CEMP-s star CD ^h 50 ^h 776. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 472, 350-360.	4.4	6
53	The s-process enriched star HD 55496: origin from a globular cluster or from the tidal disruption of a dwarf galaxy?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 488, 482-494.	4.4	6
54	Capture probability in the 3:1 mean motion resonance with Jupiter: an application to the Vesta family. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2014, 119, 1-25.	1.4	5

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55	A super-Earth and a mini-Neptune around Kepler-59. Monthly Notices of the Royal Astronomical Society, 2020, 491, 5238-5247.	4.4	5
56	The resonant population of asteroids in librating states of the $\hat{1}/2/6$ linear secular resonance. Monthly Notices of the Royal Astronomical Society, 2018, 481, 1707-1717.	4.4	4
57	Masses of the Kepler-419 planets from transit timing variations analysis. Monthly Notices of the Royal Astronomical Society, 2019, 482, 4965-4971.	4.4	4
58	<scp>isymba</scp>: a symplectic massive bodies integrator with planets interpolation. Monthly Notices of the Royal Astronomical Society, 2021, 508, 4858-4868.	4.4	3
59	Spectroscopic observations of the rapid rotating post-AGB star IRAS 05381+1012. Astronomy and Astrophysics, 2006, 452, 571-577.	5.1	2
60	High-resolution Optical Spectroscopic Observations of Four Symbiotic Stars: AS 255, MWC 960, RW Hya, and StH 32*. Astrophysical Journal, 2017, 841, 50.	4.5	2
61	Modeling the evection resonance for Trojan satellites: application to the Saturn system. Astronomy and Astrophysics, 2018, 620, A90.	5.1	2
62	Asteroid proper elements: recent computational progress. Proceedings of the International Astronomical Union, 2004, 2004, 121-134.	0.0	1
63	Evolution of planet crossing asteroids in the inner Main Belt. Journal of Physics: Conference Series, 2011, 285, 012024.	0.4	1
64	The IMPACTON Project: Pole and Shape of Eight Near-Earth Asteroids. Proceedings of the International Astronomical Union, 2015, 10, 181-184.	0.0	1
65	Dynamics of Real Asteroid at the Hecuba Gap. International Astronomical Union Colloquium, 1999, 172, 387-388.	0.1	0
66	The population of asteroids in the 2:1 mean motion resonance with Jupiter revised. Proceedings of the International Astronomical Union, 2004, 2004, 179-186.	0.0	0
67	The role of the resonant "stickiness" in the dynamical evolution of Jupiter family comets. Proceedings of the International Astronomical Union, 2004, 2004, 205-208.	0.0	0
68	The Distribution of Main Belt Asteroids with Featureless Spectra from the Sloan Digital Sky Survey Photometry. Proceedings of the International Astronomical Union, 2009, 5, 237-239.	0.0	0
69	The Modeling and Dynamics of Small Asteroids as Physical Bodies. , 2009, , .		0
70	COMMISSION 7: CELESTIAL MECHANICS AND DYNAMICAL ASTRONOMY. Proceedings of the International Astronomical Union, 2011, 7, 15-20.	0.0	0
71	DIVISION I: COMMISSION 7: CELESTIAL MECHANICS & DYNAMICAL ASTRONOMY. Proceedings of the International Astronomical Union, 2013, 10, 83-86.	0.0	0
72	DIVISION A COMMISSION 7: CELESTIAL MECHANICS AND DYNAMICAL ASTRONOMY. Proceedings of the International Astronomical Union, 2015, 11, 24-45.	0.0	0

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73	IVIA - Ibero-American VLBI Initiative -Progress on the Brazilian side. Anais Da Academia Brasileira De Ciencias, 2021, 93, e20201697.	0.8	0
74	A Symplectic Mapping Approach for the Study of Stochasticity in Three Dimensional Asteroidal Resonances. , 1999, , 13-18.		0
75	Dynamics of Real Asteroid at the Hecuba Gap. , 1999, , 387-388.		0