

# Valerio Carruba

## List of Publications by Year in descending order

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Version: 2024-02-01

70  
papers

1,488  
citations

331670

21  
h-index

395702

33  
g-index

73  
all docs

73  
docs citations

73  
times ranked

684  
citing authors

#	ARTICLE	IF	CITATIONS
1	On the Inclination Distribution of the Jovian Irregular Satellites. <i>Icarus</i> , 2002, 158, 434-449.	2.5	101
2	Orbital evolution of the Gefion and Adeona asteroid families: close encounters with massive asteroids and the Yarkovsky effect. <i>Icarus</i> , 2003, 162, 308-327.	2.5	83
3	Discovery of five irregular moons of Neptune. <i>Nature</i> , 2004, 430, 865-867.	27.8	78
4	Fugitives from the Vesta family. <i>Icarus</i> , 2008, 193, 85-95.	2.5	78
5	On the V-type asteroids outside the Vesta family. <i>Astronomy and Astrophysics</i> , 2005, 441, 819-829.	5.1	68
6	Mascon gravitation model using a shaped polyhedral source. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 450, 3742-3749.	4.4	52
7	Identification and Dynamical Properties of Asteroid Families. , 2015, , .		51
8	The stable archipelago in the region of the Pallas and Hansa dynamical families. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, 408, 580-600.	4.4	50
9	A multidomain approach to asteroid familiesâ€™ identification. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 433, 2075-2096.	4.4	50
10	A frequency approach to identifying asteroid families. <i>Astronomy and Astrophysics</i> , 2007, 475, 1145-1158.	5.1	44
11	Constraints on the original ejection velocity fields of asteroid families. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 457, 1332-1338.	4.4	37
12	The (not so) peculiar case of the Padua family. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 395, 358-377.	4.4	35
13	A frequency approach to identifying asteroid families. <i>Astronomy and Astrophysics</i> , 2009, 493, 267-282.	5.1	31
14	The dynamical environment of asteroid 21 Lutetia according to different internal models. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 464, 3552-3560.	4.4	31
15	Dynamical evolution of V-type asteroids in the central main belt. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 439, 3168-3179.	4.4	28
16	Modeling close encounters with massive asteroids: a Markovian approach. <i>Astronomy and Astrophysics</i> , 2007, 465, 315-330.	5.1	27
17	Dynamical evolution of the Cybele asteroids. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 451, 244-256.	4.4	27
18	Lunar Cold Traps: Effects of Double Shielding. <i>Icarus</i> , 1999, 142, 402-413.	2.5	26

#	ARTICLE	IF	CITATIONS
19	An automatic approach to exclude interlopers from asteroid families. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 470, 576-591.	4.4	26
20	An analysis of the region of the Phocaea dynamical family. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 398, 1512-1526.	4.4	25
21	On the V-type asteroids outside the Vesta family. <i>Astronomy and Astrophysics</i> , 2007, 473, 967-978.	5.1	23
22	Dynamical evolution and chronology of the Hygiea asteroid family. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 437, 2279-2290.	4.4	22
23	DETECTION OF THE YORP EFFECT FOR SMALL ASTEROIDS IN THE KARIN CLUSTER. <i>Astronomical Journal</i> , 2016, 151, 164.	4.7	22
24	Dynamical dispersal of primordial asteroid families. <i>Icarus</i> , 2016, 266, 142-151.	2.5	22
25	On the first $\hat{1}/26$ anti-aligned librating asteroid family of Tina. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 412, 2040-2051.	4.4	21
26	An analysis of the Hygiea asteroid family orbital region. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 431, 3557-3569.	4.4	21
27	Detection of the Yarkovsky effect for C-type asteroids in the Veritas family. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, 4400-4413.	4.4	19
28	THE EUPHROSYSNE FAMILY'S CONTRIBUTION TO THE LOW ALBEDO NEAR-EARTH ASTEROIDS. <i>Astrophysical Journal</i> , 2015, 809, 179.	4.5	18
29	Chaos and the Effects of Planetary Migration on the Orbit of S/2000 S5 Kiviuq. <i>Astronomical Journal</i> , 2004, 128, 1899-1915.	4.7	17
30	Footprints of a possible Ceres asteroid paleo-family. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 458, 1117-1126.	4.4	17
31	Asteroid families interacting with secular resonances. <i>Planetary and Space Science</i> , 2018, 157, 72-81.	1.7	17
32	Machine-learning identification of asteroid groups. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 488, 1377-1386.	4.4	17
33	Dynamical erosion of asteroid groups in the region of the Phocaea family. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 403, 1834-1848.	4.4	16
34	Machine learning classification of new asteroid families members. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 496, 540-549.	4.4	16
35	Secular dynamics and family identification among highly inclined asteroids in the Euphrosyne region. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 420, 1779-1798.	4.4	15
36	Chaotic diffusion caused by close encounters with several massive asteroids. <i>Astronomy and Astrophysics</i> , 2013, 550, A85.	5.1	15

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37	PECULIAR EUPHROSINE. <i>Astrophysical Journal</i> , 2014, 792, 46.	4.5	15
38	Dynamical evolution of V-type photometric candidates in the outer main belt. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 444, 2985-2992.	4.4	14
39	On the oldest asteroid families in the main belt. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 458, 3731-3738.	4.4	14
40	Dynamics in the vicinity of (101955) Bennu: solar radiation pressure effects in equatorial orbits. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 470, 2687-2701.	4.4	14
41	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
42	Characterizing the original ejection velocity field of the Koronis family. <i>Icarus</i> , 2016, 271, 57-66.	2.5	12
43	Artificial neural network classification of asteroids in the M1:2 mean-motion resonance with Mars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 692-700.	4.4	12
44	On the Erigone family and the $z_2$ secular resonance. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 455, 2279-2288.	4.4	11
45	The quest for young asteroid families: new families, new results. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 479, 4815-4823.	4.4	11
46	The population of rotational fission clusters inside asteroid collisional families. <i>Nature Astronomy</i> , 2020, 4, 83-88.	10.1	10
47	On the Astrid asteroid family. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 461, 1605-1613.	4.4	7
48	On the age of the Nele asteroid family. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 1308-1317.	4.4	7
49	Orbital stability near the (87) Sylvia system. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 486, 2557-2569.	4.4	7
50	The Zelima asteroid family: Resonant configuration and rotational fission clusters. <i>Planetary and Space Science</i> , 2020, 182, 104810.	1.7	7
51	Identification of asteroid groups in the $z_1$ and $z_2$ nonlinear secular resonances through genetic algorithms. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2021, 133, 1.	1.4	7
52	Chaotic diffusion caused by close encounters with several massive asteroids. <i>Astronomy and Astrophysics</i> , 2012, 543, A105.	5.1	6
53	On the highly inclined $W$ -type leptokurtic asteroid families. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 463, 705-711.	4.4	6
54	Chaos identification through the autocorrelation function indicator $\text{ACFI}$ . <i>Celestial Mechanics and Dynamical Astronomy</i> , 2021, 133, 1.	1.4	6

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55	Dynamical erosion of asteroid groups in the region of the Pallas family. Monthly Notices of the Royal Astronomical Society, 2011, 412, 2052-2062.	4.4	5
56	The Hoffmeister asteroid family. Monthly Notices of the Royal Astronomical Society, 2017, 465, 4099-4105.	4.4	5
57	The Maria asteroid family. Monthly Notices of the Royal Astronomical Society, 2017, 471, 4820-4826.	4.4	5
58	Analysis of the Karma asteroid family. Monthly Notices of the Royal Astronomical Society, 2020, 501, 356-366.	4.4	5
59	Identifying the population of stable $\hat{1}/2/6$ resonant asteroids using large data bases. Monthly Notices of the Royal Astronomical Society, 2022, 514, 4803-4815.	4.4	5
60	On the Emmenthal distribution of highly inclined asteroids. Monthly Notices of the Royal Astronomical Society, 2011, 418, 1102-1114.	4.4	4
61	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
62	The asteroid population in g-type non-linear secular resonances. Monthly Notices of the Royal Astronomical Society, 2017, 468, 4982-4991.	4.4	3
63	On the age of the Beagle secondary asteroid family. Planetary and Space Science, 2019, 166, 90-100.	1.7	3
64	The influence of Ceres on the dynamical evolution of the Zdenekhorsky/Nemesis asteroid family. Planetary and Space Science, 2019, 165, 10-18.	1.7	3
65	Spin clusters inside four young asteroid groups. Monthly Notices of the Royal Astronomical Society, 2020, 493, 2556-2567.	4.4	3
66	Mean motion resonances and the stability of a circumbinary disk in a triple stellar system. Astronomy and Astrophysics, 2012, 544, A63.	5.1	3
67	Spin pairs in the Koronis asteroid family. Planetary and Space Science, 2020, 193, 105083.	1.7	2
68	Probabilistic Modeling of Asteroid Diameters from Gaia DR2 Errors. Research Notes of the AAS, 2021, 5, 199.	0.7	2
69	The Rafita asteroid family. Monthly Notices of the Royal Astronomical Society, 0, , stx184.	4.4	0
70	Chaos identification through the auto-correlation function indicator ( $\langle ACFI \rangle$ ). Proceedings of the International Astronomical Union, 2021, 15, 108-112.	0.0	0