

# 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	Identifying the population of stable $\hat{1}/26$ resonant asteroids using large data bases. Monthly Notices of the Royal Astronomical Society, 2022, 514, 4803-4815.	4.4	5
2	Artificial neural network classification of asteroids in the M1:2 mean-motion resonance with Mars. Monthly Notices of the Royal Astronomical Society, 2021, 504, 692-700.	4.4	12
3	Identification of asteroid groups in the $z_1$ and $z_2$ nonlinear secular resonances through genetic algorithms. Celestial Mechanics and Dynamical Astronomy, 2021, 133, 1.	1.4	7
4	Probabilistic Modeling of Asteroid Diameters from Gaia DR2 Errors. Research Notes of the AAS, 2021, 5, 199.	0.7	2
5	Chaos identification through the autocorrelation function indicator $\langle ACFI \rangle$ . Celestial Mechanics and Dynamical Astronomy, 2021, 133, 1.	1.4	6
6	Chaos identification through the auto-correlation function indicator ( $\langle ACFI \rangle$ ). Proceedings of the International Astronomical Union, 2021, 15, 108-112.	0.0	0
7	The population of rotational fission clusters inside asteroid collisional families. Nature Astronomy, 2020, 4, 83-88.	10.1	10
8	The Zelima asteroid family: Resonant configuration and rotational fission clusters. Planetary and Space Science, 2020, 182, 104810.	1.7	7
9	Spin pairs in the Koronis asteroid family. Planetary and Space Science, 2020, 193, 105083.	1.7	2
10	Machine learning classification of new asteroid families members. Monthly Notices of the Royal Astronomical Society, 2020, 496, 540-549.	4.4	16
11	Spin clusters inside four young asteroid groups. Monthly Notices of the Royal Astronomical Society, 2020, 493, 2556-2567.	4.4	3
12	Analysis of the Karma asteroid family. Monthly Notices of the Royal Astronomical Society, 2020, 501, 356-366.	4.4	5
13	Machine-learning identification of asteroid groups. Monthly Notices of the Royal Astronomical Society, 2019, 488, 1377-1386.	4.4	17
14	On the age of the Beagle secondary asteroid family. Planetary and Space Science, 2019, 166, 90-100.	1.7	3
15	Orbital stability near the (87) Sylvia system. Monthly Notices of the Royal Astronomical Society, 2019, 486, 2557-2569.	4.4	7
16	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
17	On the age of the Nele asteroid family. Monthly Notices of the Royal Astronomical Society, 2018, 477, 1308-1317.	4.4	7
18	Asteroid families interacting with secular resonances. Planetary and Space Science, 2018, 157, 72-81.	1.7	17

#	ARTICLE	IF	CITATIONS
19	The resonant population of asteroids in librating states of the $\hat{1}\frac{1}{2}/6$ linear secular resonance. Monthly Notices of the Royal Astronomical Society, 2018, 481, 1707-1717.	4.4	4
20	The quest for young asteroid families: new families, new results. Monthly Notices of the Royal Astronomical Society, 2018, 479, 4815-4823.	4.4	11
21	The Hoffmeister asteroid family. Monthly Notices of the Royal Astronomical Society, 2017, 465, 4099-4105.	4.4	5
22	An automatic approach to exclude interlopers from asteroid families. Monthly Notices of the Royal Astronomical Society, 2017, 470, 576-591.	4.4	26
23	Detection of the Yarkovsky effect for C-type asteroids in the Veritas family. Monthly Notices of the Royal Astronomical Society, 2017, 469, 4400-4413.	4.4	19
24	The asteroid population in g-type non-linear secular resonances. Monthly Notices of the Royal Astronomical Society, 2017, 468, 4982-4991.	4.4	3
25	Dynamics in the vicinity of (101955) Bennu: solar radiation pressure effects in equatorial orbits. Monthly Notices of the Royal Astronomical Society, 2017, 470, 2687-2701.	4.4	14
26	The dynamical environment of asteroid 21 Lutetia according to different internal models. Monthly Notices of the Royal Astronomical Society, 2017, 464, 3552-3560.	4.4	31
27	Scattering V-type asteroids during the giant planet instability: a step for Jupiter, a leap for basalt. Monthly Notices of the Royal Astronomical Society, 2017, 468, 1236-1244.	4.4	14
28	The Maria asteroid family. Monthly Notices of the Royal Astronomical Society, 2017, 471, 4820-4826.	4.4	5
29	On the Astrid asteroid family. Monthly Notices of the Royal Astronomical Society, 2016, 461, 1605-1613.	4.4	7
30	On the oldest asteroid families in the main belt. Monthly Notices of the Royal Astronomical Society, 2016, 458, 3731-3738.	4.4	14
31	On the highly inclined $v_{W}$ leptokurtic asteroid families. Monthly Notices of the Royal Astronomical Society, 2016, 463, 705-711.	4.4	6
32	DETECTION OF THE YORP EFFECT FOR SMALL ASTEROIDS IN THE KARIN CLUSTER. Astronomical Journal, 2016, 151, 164.	4.7	22
33	Footprints of a possible Ceres asteroid paleo-family. Monthly Notices of the Royal Astronomical Society, 2016, 458, 1117-1126.	4.4	17
34	Constraints on the original ejection velocity fields of asteroid families. Monthly Notices of the Royal Astronomical Society, 2016, 457, 1332-1338.	4.4	37
35	Characterizing the original ejection velocity field of the Koronis family. Icarus, 2016, 271, 57-66.	2.5	12
36	Dynamical dispersal of primordial asteroid families. Icarus, 2016, 266, 142-151.	2.5	22

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37	On the Erigone family and the $z/2$ secular resonance. Monthly Notices of the Royal Astronomical Society, 2016, 455, 2279-2288.	4.4	11
38	THE EUPHROSYSNE FAMILY'S CONTRIBUTION TO THE LOW ALBEDO NEAR-EARTH ASTEROIDS. Astrophysical Journal, 2015, 809, 179.	4.5	18
39	Dynamical evolution of the Cybele asteroids. Monthly Notices of the Royal Astronomical Society, 2015, 451, 244-256.	4.4	27
40	Mascon gravitation model using a shaped polyhedral source. Monthly Notices of the Royal Astronomical Society, 2015, 450, 3742-3749.	4.4	52
41	Identification and Dynamical Properties of Asteroid Families. , 2015, , .		51
42	Dynamical evolution of V-type photometric candidates in the outer main belt. Monthly Notices of the Royal Astronomical Society, 2014, 444, 2985-2992.	4.4	14
43	Dynamical evolution of V-type asteroids in the central main belt. Monthly Notices of the Royal Astronomical Society, 2014, 439, 3168-3179.	4.4	28
44	PECULIAR EUPHROSYSNE. Astrophysical Journal, 2014, 792, 46.	4.5	15
45	Dynamical evolution and chronology of the Hygiea asteroid family. Monthly Notices of the Royal Astronomical Society, 2014, 437, 2279-2290.	4.4	22
46	A multidomain approach to asteroid families' identification. Monthly Notices of the Royal Astronomical Society, 2013, 433, 2075-2096.	4.4	50
47	An analysis of the Hygiea asteroid family orbital region. Monthly Notices of the Royal Astronomical Society, 2013, 431, 3557-3569.	4.4	21
48	Chaotic diffusion caused by close encounters with several massive asteroids. Astronomy and Astrophysics, 2013, 550, A85.	5.1	15
49	Chaotic diffusion caused by close encounters with several massive asteroids. Astronomy and Astrophysics, 2012, 543, A105.	5.1	6
50	Secular dynamics and family identification among highly inclined asteroids in the Euphrosyne region. Monthly Notices of the Royal Astronomical Society, 2012, 420, 1779-1798.	4.4	15
51	Mean motion resonances and the stability of a circumbinary disk in a triple stellar system. Astronomy and Astrophysics, 2012, 544, A63.	5.1	3
52	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
53	On the first $1/6$ anti-aligned librating asteroid family of Tina. Monthly Notices of the Royal Astronomical Society, 2011, 412, 2040-2051.	4.4	21
54	On the Emmenthal distribution of highly inclined asteroids. Monthly Notices of the Royal Astronomical Society, 2011, 418, 1102-1114.	4.4	4

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55	Dynamical erosion of asteroid groups in the region of the Phocaea family. Monthly Notices of the Royal Astronomical Society, 2010, 403, 1834-1848.	4.4	16
56	A frequency approach to identifying asteroid families. Astronomy and Astrophysics, 2009, 493, 267-282.	5.1	31
57	The (not so) peculiar case of the Padua family. Monthly Notices of the Royal Astronomical Society, 2009, 395, 358-377.	4.4	35
58	An analysis of the region of the Phocaea dynamical family. Monthly Notices of the Royal Astronomical Society, 2009, 398, 1512-1526.	4.4	25
59	Fugitives from the Vesta family. Icarus, 2008, 193, 85-95.	2.5	78
60	A frequency approach to identifying asteroid families. Astronomy and Astrophysics, 2007, 475, 1145-1158.	5.1	44
61	On the V-type asteroids outside the Vesta family. Astronomy and Astrophysics, 2007, 473, 967-978.	5.1	23
62	Modeling close encounters with massive asteroids: a Markovian approach. Astronomy and Astrophysics, 2007, 465, 315-330.	5.1	27
63	On the V-type asteroids outside the Vesta family. Astronomy and Astrophysics, 2005, 441, 819-829.	5.1	68
64	Discovery of five irregular moons of Neptune. Nature, 2004, 430, 865-867.	27.8	78
65	Chaos and the Effects of Planetary Migration on the Orbit of S/2000 S5 Kiviuq. Astronomical Journal, 2004, 128, 1899-1915.	4.7	17
66	Orbital evolution of the Gefion and Adeona asteroid families: close encounters with massive asteroids and the Yarkovsky effect. Icarus, 2003, 162, 308-327.	2.5	83
67	On the Inclination Distribution of the Jovian Irregular Satellites. Icarus, 2002, 158, 434-449.	2.5	101
68	Lunar Cold Traps: Effects of Double Shielding. Icarus, 1999, 142, 402-413.	2.5	26
69	The stable archipelago in the region of the Pallas and Hansa dynamical families. Monthly Notices of the Royal Astronomical Society, 0, 408, 580-600.	4.4	50
70	The Rafita asteroid family. Monthly Notices of the Royal Astronomical Society, 0, , stx184.	4.4	0