Raul de la Fuente Marcos

List of Publications by Year
in descending order

100	1,302	393982	500791
papers	citations	19 h-index	28 g-index

100	100	100	948
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Extreme trans-Neptunian objects and the Kozai mechanism: signalling the presence of trans-Plutonian planets. Monthly Notices of the Royal Astronomical Society: Letters, 2014, 443, L59-L63.	1.2	76
2	On the dynamical evolution of 2002 VE₆₈. Monthly Notices of the Royal Astronomical Society, 2012, 427, 728-739.	1.6	61
3	Asteroid (469219) 2016 HO₃, the smallest and closest Earth quasi-satellite. Monthly Notices of the Royal Astronomical Society, 2016, 462, 3441-3456.	1.6	57
4	On the recent star formation history of the Milky Way disk. New Astronomy, 2004, 9, 475-502.	0.8	53
5	Flipping minor bodies: what comet 96P/Machholz 1 can tell us about the orbital evolution of extreme trans-Neptunian objects and the production of near-Earth objects on retrograde orbits. Monthly Notices of the Royal Astronomical Society, 2015, 446, 1867-1873.	1.6	49
6	Double or binary: on the multiplicity of open star clusters. Astronomy and Astrophysics, 2009, 500, L13-L16.	2.1	43
7	HIERARCHICAL STAR FORMATION IN THE MILKY WAY DISK. Astrophysical Journal, 2009, 700, 436-446.	1.6	43
8	Three new stable L5 Mars Trojans. Monthly Notices of the Royal Astronomical Society: Letters, 2013, 432, L31-L35.	1.2	43
9	A resonant family of dynamically cold small bodies in the near-Earth asteroid belt. Monthly Notices of the Royal Astronomical Society: Letters, 2013, 434, L1-L5.	1.2	43
10	Finding Planet Nine: apsidal anti-alignment Monte Carlo results. Monthly Notices of the Royal Astronomical Society, 2016, 462, 1972-1977.	1.6	37
11	Asteroid 2015 DB₂₁₆: a recurring co-orbital companion to Uranus. Monthly Notices of the Royal Astronomical Society, 2015, 453, 1288-1296.	1.6	34
12	From Star Complexes to the Field: Open Cluster Families. Astrophysical Journal, 2008, 672, 342-351.	1.6	32
13	Evidence for a possible bimodal distribution of the nodal distances of the extreme trans-Neptunian objects: Avoiding a trans-Plutonian planet or just plain bias?. Monthly Notices of the Royal Astronomical Society: Letters, 2017, 471, L61-L65.	1.2	30
14	Asteroid 2013 ND15: Trojan companion to Venus, PHA to the Earth. Monthly Notices of the Royal Astronomical Society, 2014, 439, 2970-2977.	1.6	28
15	THE EVOLUTION OF PRIMORDIAL BINARY OPEN STAR CLUSTERS: MERGERS, SHREDDED SECONDARIES, AND SEPARATED TWINS. Astrophysical Journal, 2010, 719, 104-118.	1.6	26
16	On the correlation between the recent star formation rate in the Solar Neighbourhood and the glaciation period record on Earth. New Astronomy, 2004, 10, 53-66.	0.8	25
17	Interstellar Visitors: A Physical Characterization of Comet C/2019 Q4 (Borisov) with OSIRIS at the 10.4â€‰m GTC. Research Notes of the AAS, 2019, 3, 131.	0.3	25
18	Where the Solar system meets the solar neighbourhood: patterns in the distribution of radiants of observed hyperbolic minor bodies. Monthly Notices of the Royal Astronomical Society: Letters, 2018, 476, L1-L5.	1.2	24

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19	Drag-induced resonant capture in a multiplanet scenario: An application to 55 Cancri A. New Astronomy, 2010, 15, 260-273.	0.8	23
20	Asteroid 2014 OL339: yet another Earth quasi-satellite. Monthly Notices of the Royal Astronomical Society, 2014, 445, 2985-2994.	1.6	21
21	The fractal dimensions of the spatial distribution of young open clusters in the solar neighbourhood. Astronomy and Astrophysics, 2006, 452, 163-168.	2.1	20
22	Large retrograde Centaurs: visitors from the Oort cloud?. Astrophysics and Space Science, 2014, 352, 409-419.	0.5	19
23	Observational templates of star cluster disruption. Astronomy and Astrophysics, 2007, 466, 931-941.	2.1	17
24	The Chelyabinsk superbolide: a fragment of asteroid 2011 EO40?. Monthly Notices of the Royal Astronomical Society: Letters, 2013, 436, L15-L19.	1.2	17
25	Far from random: dynamical groupings among the NEO population. Monthly Notices of the Royal Astronomical Society, 2016, 456, 2946-2956.	1.6	17
26	(309239) 2007 RW₁₀: a large temporary quasi-satellite of Neptune. Astronomy and Astrophysics, 2012, 545, L9.	2.1	15
27	Geometric characterization of the Arjuna orbital domain. Astronomische Nachrichten, 2015, 336, 5-22.	0.6	14
28	The Invisible Hand: Star Formation Triggered by Runaway Black Holes. Astrophysical Journal, 2008, 677, L47-L50.	1.6	13
29	On the orbital evolution of 2020ÂAV2, the first asteroid ever observed to go around the Sun inside the orbit of Venus. Monthly Notices of the Royal Astronomical Society: Letters, 2020, 494, L6-L10.	1.2	13
30	Not an open cluster after all: the NGCÂ6863 asterism in Aquila. Astronomy and Astrophysics, 2010, 510, A44.	2.1	13
31	Asteroid 2012 XE133: a transient companion to Venus. Monthly Notices of the Royal Astronomical Society, 2013, 432, 886-893.	1.6	11
32	Binary stripping as a plausible origin of correlated pairs of extreme trans-Neptunian objects. Astrophysics and Space Science, 2017, 362, 1.	0.5	11
33	Dynamical evolution of near-Earth asteroid 1991 VG. Monthly Notices of the Royal Astronomical Society, 2018, 473, 2939-2948.	1.6	11
34	Flying far and fast: the distribution of distant hypervelocity star candidates fromGaiaDR2 data. Astronomy and Astrophysics, 2019, 627, A104.	2.1	11
35	Spectroscopic and dynamical properties of comet C/2018 F4, likely a true average former member of the Oort cloud. Astronomy and Astrophysics, 2019, 625, A133.	2.1	11
36	Visible and near-infrared observations of interstellar comet 2I/Borisov with the 10.4-m GTC and the 3.6-m TNG telescopes. Monthly Notices of the Royal Astronomical Society, 2020, 495, 2053-2062.	1.6	11

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37	Four temporary Neptune co-orbitals: (148975) 2001 XA₂₅₅, (310071) 2010 KR₅₉, (316179) 2010 EN₆₅, and 2012 GX₁₇. Astronomy and Astrophysics, 2012, 547, L2.	2.1	11
38	Reshaping the outskirts of planetary systems. Astronomy and Astrophysics, 2001, 371, 1097-1106.	2.1	11
39	An Independent Confirmation of the Future Flyby of Gliese 710 to the Solar System Using Gaia DR2. Research Notes of the AAS, 2018, 2, 30.	0.3	11
40	Runaway planets. New Astronomy, 1999, 4, 21-32.	0.8	10
41	NGCÂ5385, NGCÂ2664 and CollinderÂ21: Three candidate open cluster remnants. Astronomy and Astrophysics, 2004, 428, 67-77.	2.1	10
42	Present-Day Star Formation at High Galactic Altitude: The Tidal Encounter Paradigm. Astrophysical Journal, 2008, 685, L125-L128.	1.6	9
43	From horseshoe to quasi-satellite and back again: the curious dynamics of Earth co-orbital asteroid 2015 SO2. Astrophysics and Space Science, 2016, 361, 1.	0.5	9
44	Visible spectra of (474640) 2004 VN112â€“2013 RF98 with OSIRIS at the 10.4Âm GTC: evidence for binary dissociation near aphelion among the extreme trans-Neptunian objects. Monthly Notices of the Royal Astronomical Society: Letters, 2017, 467, L66-L70.	1.2	9
45	Dynamically correlated minor bodies in the outer Solar system. Monthly Notices of the Royal Astronomical Society, 2018, 474, 838-846.	1.6	9
46	Dancing with Venus in the shadow of the Earth: a pair of genetically related near-Earth asteroids trapped in a mean-motion resonance. Monthly Notices of the Royal Astronomical Society: Letters, 2019, 483, L37-L41.	1.2	9
47	Infrequent visitors of the Kozai kind: the dynamical lives of 2012 FC₇₁, 2014 EK₂₄, 2014 QD₃₆₄, and 2014 UR. Astronomy and Astrophysics, 2015, 580, A109.	2.1	9
48	Comparative orbital evolution of transient Uranian co-orbitals: exploring the role of ephemeral multibody mean motion resonances. Monthly Notices of the Royal Astronomical Society, 2014, 441, 2280-2295.	1.6	8
49	Gravitational interactions between globular and open clusters: an introduction. Astrophysics and Space Science, 2014, 349, 379-400.	0.5	8
50	CHASING THE CHELYABINSK ASTEROIDN-BODY STYLE. Astrophysical Journal, 2015, 812, 26.	1.6	8
51	On the orbital evolution of meteoroid 2020 CD3, a temporarily captured orbiter of the Earthâ€“Moon system. Monthly Notices of the Royal Astronomical Society, 2020, 494, 1089-1094.	1.6	8
52	Crantor, a short-lived horseshoe companion to Uranus. Astronomy and Astrophysics, 2013, 551, A114.	2.1	8
53	On the origin of comet C/1999ÂS4ÂLINEAR. Astronomy and Astrophysics, 2002, 395, 697-704.	2.1	7
54	Multifractal evolution in interacting galaxies: from supergiant molecular clouds to stellar superclusters in the Antennae. Monthly Notices of the Royal Astronomical Society, 2006, 372, 279-285.	1.6	7

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55	The Cassiopeiaâ€“Perseus open cluster family. New Astronomy, 2009, 14, 180-195.	0.8	7
56	NGC 1252: a high altitude, metal poor open cluster remnantâ˜…. Monthly Notices of the Royal Astronomical Society, 2013, 434, 194-208.	1.6	7
57	Homing in for New Year: impact parameters and pre-impact orbital evolution of meteoroid 2014 AA. Astrophysics and Space Science, 2016, 361, 1.	0.5	7
58	Asteroid 2017 FZ2 etÂal.: signs of recent mass-shedding from YORP?. Monthly Notices of the Royal Astronomical Society, 2018, 473, 3434-3453.	1.6	7
59	Physical characterization of 2020ÂAV2, the first known asteroid orbiting inside Venus orbit. Monthly Notices of the Royal Astronomical Society, 2020, 496, 3572-3581.	1.6	7
60	Dust Dynamics in Protoplanetary Disks: Parallel Computing with PVM. Journal of Computational Physics, 2002, 176, 276-294.	1.9	6
61	Reconstructing the Chelyabinsk event: pre-impact orbital evolution. Monthly Notices of the Royal Astronomical Society: Letters, 2014, 443, L39-L43.	1.2	6
62	Recent multi-kiloton impact events: are they truly random?. Monthly Notices of the Royal Astronomical Society: Letters, 2015, 446, L31-L35.	1.2	6
63	Understanding the evolution of Atira-class asteroid 2019ÂAQ3, a major step towards the future discovery of the Vatira population. Monthly Notices of the Royal Astronomical Society, 2019, 487, 2742-2752.	1.6	6
64	Kozaiâ€“Lidov Resonant Behavior Among Atira-class Asteroids. Research Notes of the AAS, 2018, 2, 46.	0.3	6
65	Hot and Eccentric: The Discovery of 2019 LF6 as a New Step in the Quest for the Vatira Population. Research Notes of the AAS, 2019, 3, 106.	0.3	6
66	Multifractality in a ring of star formation: the case of ArpÂ220. Astronomy and Astrophysics, 2006, 454, 473-480.	2.1	5
67	Comet C/2018ÂV1 (Machholzâ€“Fujikawaâ€“Iwamoto): dislodged from the Oort Cloud or coming from interstellar space?. Monthly Notices of the Royal Astronomical Society, 2019, 489, 951-961.	1.6	5
68	Transient Terrestrial Trojans: Comparative Short-term Dynamical Evolution of 2010 TK₇ and 2020 XL₅. Research Notes of the AAS, 2021, 5, 29.	0.3	5
69	Peculiar orbits and asymmetries in extreme trans-Neptunian space. Monthly Notices of the Royal Astronomical Society, 2021, 506, 633-649.	1.6	5
70	Constraining the orientation of the spin axes of extrasolar minor bodies 1I/2017 U1 (â€˜Oumuamua) and 2I/Borisov. Astronomy and Astrophysics, 2020, 643, A18.	2.1	5
71	Confined chaotic motion in three-body resonances: trapping of trans-Neptunian material induced by gas-drag. Monthly Notices of the Royal Astronomical Society, 2008, 388, 293-306.	1.6	4
72	Using Mars co-orbitals to estimate the importance of rotation-induced YORP break-up events in Earth co-orbital space. Monthly Notices of the Royal Astronomical Society, 2021, 501, 6007-6025.	1.6	4

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73	On the Pre-impact Orbital Evolution of 2018 LA, Parent Body of the Bright Fireball Observed Over Botswana on 2018 June 2. Research Notes of the AAS, 2018, 2, 57.	0.3	4
74	On the nature of the proposed blob in the inner preplanetary disk of the Herbig Ae/Be star HD141569: evidence for a giant vortex?. New Astronomy, 2003, 8, 401-414.	0.8	3
75	Waiting to make an impact: a probable excess of near-Earth asteroids in 2018 LA-like orbits. Astronomy and Astrophysics, 2019, 621, A137.	2.1	3
76	LP 543-25: A Rare Low-mass Runaway Disk Star. Research Notes of the AAS, 2018, 2, 35.	0.3	3
77	Ordinary Oort Cloud Comets: An Update on the Past and Future Orbital Evolution of C/2018 F4 (PANSTARRS). Research Notes of the AAS, 2019, 3, 143.	0.3	3
78	Microlensing planets in M 22: Free-floating or bound?. Astronomy and Astrophysics, 2001, 379, 872-877.	2.1	2
79	A nearby cool white dwarf candidate in Gemini. New Astronomy, 2005, 11, 59-67.	0.8	2
80	A cannonball star candidate in Canis Minor. New Astronomy, 2005, 10, 551-559.	0.8	2
81	Colliding with G2 near the Galactic Centre: a geometrical approach. Monthly Notices of the Royal Astronomical Society: Letters, 2013, 435, L19-L23.	1.2	2
82	Searching for the lost Unicorn: a prominent feature in the radial velocity distribution of stars in Vela from Gaia DR2 data. Monthly Notices of the Royal Astronomical Society: Letters, 2018, 481, L64-L68.	1.2	2
83	Memories of past close encounters in extreme trans-Neptunian space: Finding unseen planets using pure random searches. Astronomy and Astrophysics, 2021, 646, L14.	2.1	2
84	Comet C/2017 K2 (PANSTARRS): Dynamically Old or New?. Research Notes of the AAS, 2018, 2, 10.	0.3	2
85	A Fruit of a Different Kind: 2015 BP₅₁₉ as an Outlier Among the Extreme Trans-neptunian Objects. Research Notes of the AAS, 2018, 2, 167.	0.3	2
86	An Update on the Future Flyby of Gliese 710 to the Solar System Using Gaia EDR3: Slightly Closer and a Tad Later than Previous Estimates. Research Notes of the AAS, 2020, 4, 222.	0.3	2
87	MONS OT J004240.69+405142.0: An orphan GRB optical afterglow candidate in Andromeda?. New Astronomy, 2009, 14, 214-220.	0.8	1
88	Plutino (15810) 1994 JR1, an accidental quasi-satellite of Pluto. Monthly Notices of the Royal Astronomical Society: Letters, 2012, , no-no.	1.2	1
89	Roaming the Relativistic Realm: Short-term Dynamical Evolution of Atira 2021 PH₂₇. Research Notes of the AAS, 2021, 5, 205.	0.3	1
90	Pre-airburst Orbital Evolution of Earthâ€™s Impactor 2018 LA: An Update. Research Notes of the AAS, 2018, 2, 131.	0.3	1

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91	Near the Edge of the Atira Orbital Realm: Short-term Dynamical Evolution of 2020ÂHA₁₀ and 2020ÂOV₁. Research Notes of the AAS, 2020, 4, 123.	0.3	1
92	Twisted extreme trans-Neptunian orbital parameter space: statistically significant asymmetries confirmed. Monthly Notices of the Royal Astronomical Society: Letters, 0, , .	1.2	1
93	On the angular distribution of IceCube highâ€energy events. Astronomische Nachrichten, 2015, 336, 657-664.	0.6	0
94	High reddening patches in Gaia DR2. Astronomy and Astrophysics, 2020, 634, A33.	2.1	0
95	Activity of the Jupiter co-orbital comet P/2019 LD2 (ATLAS) observed with OSIRIS at the 10.4 m GTC. Astronomy and Astrophysics, 2021, 650, A79.	2.1	0
96	Centaur 2013 VZ70 : Debris from Saturn's irregular moon population?. Astronomy and Astrophysics, 0, , .	2.1	0
97	2MASS J06562998+3002455: Not a Cool White Dwarf Candidate, but a Population II Halo Star. Research Notes of the AAS, 2018, 2, 45.	0.3	0
98	Physical and dynamical characterization of hyperbolic comet C/2017 U7 (PANSTARRS). Icarus, 2022, 377, 114834.	1.1	0
99	Distant trans-Neptunian object candidates from NASAâ€™s TESS mission scrutinised: fainter than predicted or false positives?. Monthly Notices of the Royal Astronomical Society: Letters, 0, , .	1.2	0
100	An Update on the Future Flyby of Gliese 710 to the Solar System Using Gaia DR3: Flyby Parameters Reproduced, Uncertainties Reduced. Research Notes of the AAS, 2022, 6, 136.	0.3	0