

Raul de la Fuente Marcos

List of Publications by Year in descending order

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100
papers

1,302
citations

393982

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500791

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100
all docs

100
docs citations

100
times ranked

948
citing authors

#	ARTICLE	IF	CITATIONS
1	Physical and dynamical characterization of hyperbolic comet C/2017 U7 (PANSTARRS). <i>Icarus</i> , 2022, 377, 114834.	1.1	0
2	An Update on the Future Flyby of Gliese 710 to the Solar System Using Gaia DR3: Flyby Parameters Reproduced, Uncertainties Reduced. <i>Research Notes of the AAS</i> , 2022, 6, 136.	0.3	0
3	Using Mars co-orbitals to estimate the importance of rotation-induced YORP break-up events in Earth co-orbital space. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 501, 6007-6025.	1.6	4
4	Memories of past close encounters in extreme trans-Neptunian space: Finding unseen planets using pure random searches. <i>Astronomy and Astrophysics</i> , 2021, 646, L14.	2.1	2
5	Transient Terrestrial Trojans: Comparative Short-term Dynamical Evolution of 2010 TK ₇ and 2020 XL ₅ . <i>Research Notes of the AAS</i> , 2021, 5, 29.	0.3	5
6	Peculiar orbits and asymmetries in extreme trans-Neptunian space. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 633-649.	1.6	5
7	Activity of the Jupiter co-orbital comet P/2019 LD2 (ATLAS) observed with OSIRIS at the 10.4 m GTC. <i>Astronomy and Astrophysics</i> , 2021, 650, A79.	2.1	0
8	Roaming the Relativistic Realm: Short-term Dynamical Evolution of Atira 2021 PH ₂₇ . <i>Research Notes of the AAS</i> , 2021, 5, 205.	0.3	1
9	Visible and near-infrared observations of interstellar comet 2I/Borisov with the 10.4-m GTC and the 3.6-m TNG telescopes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 495, 2053-2062.	1.6	11
10	High reddening patches in Gaia DR2. <i>Astronomy and Astrophysics</i> , 2020, 634, A33.	2.1	0
11	Physical characterization of 2020 ^{AAV} 2, the first known asteroid orbiting inside Venus orbit. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 496, 3572-3581.	1.6	7
12	On the orbital evolution of 2020 ^{AAV} 2, the first asteroid ever observed to go around the Sun inside the orbit of Venus. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2020, 494, L6-L10.	1.2	13
13	On the orbital evolution of meteoroid 2020 CD3, a temporarily captured orbiter of the Earth's Moon system. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 1089-1094.	1.6	8
14	Near the Edge of the Atira Orbital Realm: Short-term Dynamical Evolution of 2020 ^{AHA} 10 and 2020 ^{AOV} 1. <i>Research Notes of the AAS</i> , 2020, 4, 123.	0.3	1
15	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. <i>Research Notes of the AAS</i> , 2020, 4, 222.	0.3	2
16	Constraining the orientation of the spin axes of extrasolar minor bodies 1I/2017 U1 (1I/Oumuamua) and 2I/Borisov. <i>Astronomy and Astrophysics</i> , 2020, 643, A18.	2.1	5
17	Flying far and fast: the distribution of distant hypervelocity star candidates from <i>Gaia</i> DR2 data. <i>Astronomy and Astrophysics</i> , 2019, 627, A104.	2.1	11
18	Comet C/2018 ^{AV} 1 (Machholz's "Fujikawa" Iwamoto): dislodged from the Oort Cloud or coming from interstellar space?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 489, 951-961.	1.6	5

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19	Understanding the evolution of Atira-class asteroid 2019 AAQ3, a major step towards the future discovery of the Vatira population. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 487, 2742-2752.	1.6	6
20	Dancing with Venus in the shadow of the Earth: a pair of genetically related near-Earth asteroids trapped in a mean-motion resonance. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2019, 483, L37-L41.	1.2	9
21	Waiting to make an impact: a probable excess of near-Earth asteroids in 2018 LA-like orbits. <i>Astronomy and Astrophysics</i> , 2019, 621, A137.	2.1	3
22	Spectroscopic and dynamical properties of comet C/2018 F4, likely a true average former member of the Oort cloud. <i>Astronomy and Astrophysics</i> , 2019, 625, A133.	2.1	11
23	Hot and Eccentric: The Discovery of 2019 LF6 as a New Step in the Quest for the Vatira Population. <i>Research Notes of the AAS</i> , 2019, 3, 106.	0.3	6
24	Interstellar Visitors: A Physical Characterization of Comet C/2019 Q4 (Borisov) with OSIRIS at the 10.4% GTC. <i>Research Notes of the AAS</i> , 2019, 3, 131.	0.3	25
25	Ordinary Oort Cloud Comets: An Update on the Past and Future Orbital Evolution of C/2018 F4 (PANSTARRS). <i>Research Notes of the AAS</i> , 2019, 3, 143.	0.3	3
26	Asteroid 2017 FZ2 et Al.: signs of recent mass-shedding from YORP?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 473, 3434-3453.	1.6	7
27	Where the Solar system meets the solar neighbourhood: patterns in the distribution of radiant of observed hyperbolic minor bodies. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2018, 476, L1-L5.	1.2	24
28	Dynamical evolution of near-Earth asteroid 1991 VG. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 473, 2939-2948.	1.6	11
29	Dynamically correlated minor bodies in the outer Solar system. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 474, 838-846.	1.6	9
30	Searching for the lost Unicorn: a prominent feature in the radial velocity distribution of stars in Vela from Gaia DR2 data. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2018, 481, L64-L68.	1.2	2
31	Comet C/2017 K2 (PANSTARRS): Dynamically Old or New?. <i>Research Notes of the AAS</i> , 2018, 2, 10.	0.3	2
32	An Independent Confirmation of the Future Flyby of Gliese 710 to the Solar System Using Gaia DR2. <i>Research Notes of the AAS</i> , 2018, 2, 30.	0.3	11
33	LP 543-25: A Rare Low-mass Runaway Disk Star. <i>Research Notes of the AAS</i> , 2018, 2, 35.	0.3	3
34	Kozai-Lidov Resonant Behavior Among Atira-class Asteroids. <i>Research Notes of the AAS</i> , 2018, 2, 46.	0.3	6
35	On the Pre-impact Orbital Evolution of 2018 LA, Parent Body of the Bright Fireball Observed Over Botswana on 2018 June 2. <i>Research Notes of the AAS</i> , 2018, 2, 57.	0.3	4
36	Pre-airburst Orbital Evolution of Earth's Impactor 2018 LA: An Update. <i>Research Notes of the AAS</i> , 2018, 2, 131.	0.3	1

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37	A Fruit of a Different Kind: 2015 BP ₅₁₉ as an Outlier Among the Extreme Trans-neptunian Objects. Research Notes of the AAS, 2018, 2, 167.	0.3	2
38	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
39	Binary stripping as a plausible origin of correlated pairs of extreme trans-Neptunian objects. Astrophysics and Space Science, 2017, 362, 1.	0.5	11
40	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
41	Visible spectra of (474640) 2004 VN ₁₁₂ – 2013 RF ₉₈ with OSIRIS at the 10.4m 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
42	Asteroid (469219) 2016 HO ₃ , the smallest and closest Earth quasi-satellite. Monthly Notices of the Royal Astronomical Society, 2016, 462, 3441-3456.	1.6	57
43	Finding Planet Nine: apsidal anti-alignment Monte Carlo results. Monthly Notices of the Royal Astronomical Society, 2016, 462, 1972-1977.	1.6	37
44	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
45	From horseshoe to quasi-satellite and back again: the curious dynamics of Earth co-orbital asteroid 2015 SO ₂ . Astrophysics and Space Science, 2016, 361, 1.	0.5	9
46	Far from random: dynamical groupings among the NEO population. Monthly Notices of the Royal Astronomical Society, 2016, 456, 2946-2956.	1.6	17
47	On the angular distribution of IceCube high-energy events. Astronomische Nachrichten, 2015, 336, 657-664.	0.6	0
48	Geometric characterization of the Arjuna orbital domain. Astronomische Nachrichten, 2015, 336, 5-22.	0.6	14
49	CHASING THE CHELYABINSK ASTEROID-N-BODY STYLE. Astrophysical Journal, 2015, 812, 26.	1.6	8
50	Asteroid 2015 DB ₂₁₆ : a recurring co-orbital companion to Uranus. Monthly Notices of the Royal Astronomical Society, 2015, 453, 1288-1296.	1.6	34
51	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
52	Recent multi-kiloton impact events: are they truly random?. Monthly Notices of the Royal Astronomical Society: Letters, 2015, 446, L31-L35.	1.2	6
53	Infrequent visitors of the Kozai kind: the dynamical lives of 2012 FC ₇₁ , 2014 EK ₂₄ , 2014 QD ₃₆₄ , and 2014 UR. Astronomy and Astrophysics, 2015, 580, A109.	2.1	9
54	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

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55	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
56	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
57	Asteroid 2014 OL339: yet another Earth quasi-satellite. Monthly Notices of the Royal Astronomical Society, 2014, 445, 2985-2994.	1.6	21
58	Gravitational interactions between globular and open clusters: an introduction. Astrophysics and Space Science, 2014, 349, 379-400.	0.5	8
59	Large retrograde Centaurs: visitors from the Oort cloud?. Astrophysics and Space Science, 2014, 352, 409-419.	0.5	19
60	Reconstructing the Chelyabinsk event: pre-impact orbital evolution. Monthly Notices of the Royal Astronomical Society: Letters, 2014, 443, L39-L43.	1.2	6
61	The Chelyabinsk superbolide: a fragment of asteroid 2011 EO40?. Monthly Notices of the Royal Astronomical Society: Letters, 2013, 436, L15-L19.	1.2	17
62	Three new stable L5 Mars Trojans. Monthly Notices of the Royal Astronomical Society: Letters, 2013, 432, L31-L35.	1.2	43
63	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
64	NGC 1252: a high altitude, metal poor open cluster remnantâˆž.... Monthly Notices of the Royal Astronomical Society, 2013, 434, 194-208.	1.6	7
65	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
66	Asteroid 2012 XE133: a transient companion to Venus. Monthly Notices of the Royal Astronomical Society, 2013, 432, 886-893.	1.6	11
67	Crantor, a short-lived horseshoe companion to Uranus. Astronomy and Astrophysics, 2013, 551, A114.	2.1	8
68	On the dynamical evolution of 2002 VE ₆₈ . Monthly Notices of the Royal Astronomical Society, 2012, 427, 728-739.	1.6	61
69	Plutino (15810) 1994 JR1, an accidental quasi-satellite of Pluto. Monthly Notices of the Royal Astronomical Society: Letters, 2012, , no-no.	1.2	1
70	(309239) 2007 RW ₁₀ : a large temporary quasi-satellite of Neptune. Astronomy and Astrophysics, 2012, 545, L9.	2.1	15
71	Four temporary Neptune co-orbitals: (148975) 2001 XA ₂₅₅ , (310071) 2010 KR ₅₉ , (316179) 2010 EN ₆₅ , and 2012 GX ₁₇ . Astronomy and Astrophysics, 2012, 547, L2.	2.1	11
72	Drag-induced resonant capture in a multiplanet scenario: An application to 55 Cancri A. New Astronomy, 2010, 15, 260-273.	0.8	23

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73	THE EVOLUTION OF PRIMORDIAL BINARY OPEN STAR CLUSTERS: MERGERS, SHREDDED SECONDARIES, AND SEPARATED TWINS. <i>Astrophysical Journal</i> , 2010, 719, 104-118.	1.6	26
74	Not an open cluster after all: the NGC 6863 asterism in Aquila. <i>Astronomy and Astrophysics</i> , 2010, 510, A44.	2.1	13
75	Double or binary: on the multiplicity of open star clusters. <i>Astronomy and Astrophysics</i> , 2009, 500, L13-L16.	2.1	43
76	HIERARCHICAL STAR FORMATION IN THE MILKY WAY DISK. <i>Astrophysical Journal</i> , 2009, 700, 436-446.	1.6	43
77	The Cassiopeia "Perseus open cluster family. <i>New Astronomy</i> , 2009, 14, 180-195.	0.8	7
78	MONS OT J004240.69+405142.0: An orphan GRB optical afterglow candidate in Andromeda?. <i>New Astronomy</i> , 2009, 14, 214-220.	0.8	1
79	Confined chaotic motion in three-body resonances: trapping of trans-Neptunian material induced by gas-drag. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 388, 293-306.	1.6	4
80	Present-Day Star Formation at High Galactic Altitude: The Tidal Encounter Paradigm. <i>Astrophysical Journal</i> , 2008, 685, L125-L128.	1.6	9
81	The Invisible Hand: Star Formation Triggered by Runaway Black Holes. <i>Astrophysical Journal</i> , 2008, 677, L47-L50.	1.6	13
82	From Star Complexes to the Field: Open Cluster Families. <i>Astrophysical Journal</i> , 2008, 672, 342-351.	1.6	32
83	Observational templates of star cluster disruption. <i>Astronomy and Astrophysics</i> , 2007, 466, 931-941.	2.1	17
84	Multifractality in a ring of star formation: the case of Arp 220. <i>Astronomy and Astrophysics</i> , 2006, 454, 473-480.	2.1	5
85	The fractal dimensions of the spatial distribution of young open clusters in the solar neighbourhood. <i>Astronomy and Astrophysics</i> , 2006, 452, 163-168.	2.1	20
86	Multifractal evolution in interacting galaxies: from supergiant molecular clouds to stellar superclusters in the Antennae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 372, 279-285.	1.6	7
87	A nearby cool white dwarf candidate in Gemini. <i>New Astronomy</i> , 2005, 11, 59-67.	0.8	2
88	A cannonball star candidate in Canis Minor. <i>New Astronomy</i> , 2005, 10, 551-559.	0.8	2
89	On the recent star formation history of the Milky Way disk. <i>New Astronomy</i> , 2004, 9, 475-502.	0.8	53
90	On the correlation between the recent star formation rate in the Solar Neighbourhood and the glaciation period record on Earth. <i>New Astronomy</i> , 2004, 10, 53-66.	0.8	25

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91	NGC 5385, NGC 2664 and Collinder 21: Three candidate open cluster remnants. <i>Astronomy and Astrophysics</i> , 2004, 428, 67-77.	2.1	10
92	On the nature of the proposed blob in the inner preplanetary disk of the Herbig Ae/Be star HD141569: evidence for a giant vortex?. <i>New Astronomy</i> , 2003, 8, 401-414.	0.8	3
93	On the origin of comet C/1999 S4 LINEAR. <i>Astronomy and Astrophysics</i> , 2002, 395, 697-704.	2.1	7
94	Dust Dynamics in Protoplanetary Disks: Parallel Computing with PVM. <i>Journal of Computational Physics</i> , 2002, 176, 276-294.	1.9	6
95	Microlensing planets in M 22: Free-floating or bound?. <i>Astronomy and Astrophysics</i> , 2001, 379, 872-877.	2.1	2
96	Reshaping the outskirts of planetary systems. <i>Astronomy and Astrophysics</i> , 2001, 371, 1097-1106.	2.1	11
97	Runaway planets. <i>New Astronomy</i> , 1999, 4, 21-32.	0.8	10
98	Centaur 2013 VZ70 : Debris from Saturn's irregular moon population?. <i>Astronomy and Astrophysics</i> , 0, , .	2.1	0
99	Twisted extreme trans-Neptunian orbital parameter space: statistically significant asymmetries confirmed. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 0, , .	1.2	1
100	Distant trans-Neptunian object candidates from NASA's TESS mission scrutinised: fainter than predicted or false positives?. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 0, , .	1.2	0