Merce Romero-Gomez

List of Publications by Year
in descending order

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40 papers	15,607 citations	279487 23 h-index	395343 33 g-index
40 all docs	40 docs citations	40 times ranked	10876 citing authors

#	Article	IF	Citations
1	Gaia Data Release 2. Astronomy and Astrophysics, 2018, 616, A1.	2.1	6,364
2	TheGaiamission. Astronomy and Astrophysics, 2016, 595, A1.	2.1	4,509
3	GaiaData Release 1. Astronomy and Astrophysics, 2016, 595, A2.	2.1	1,590
4	Gaia Data Release 2. Astronomy and Astrophysics, 2018, 616, A10.	2.1	638
5	GaiaData Release 2. Astronomy and Astrophysics, 2018, 616, A12.	2.1	491
6	A dynamically young and perturbed Milky Way disk. Nature, 2018, 561, 360-362.	13.7	325
7	GaiaData Release 2. Astronomy and Astrophysics, 2018, 616, A11.	2.1	323
8	Gaia Data Release 2. Astronomy and Astrophysics, 2018, 616, A14.	2.1	140
9	The origin of rR1 ring structures in barred galaxies. Astronomy and Astrophysics, 2006, 453, 39-45.	2.1	108
10	Rings and spirals in barred galaxies - I. Building blocks. Monthly Notices of the Royal Astronomical Society, 2009, 394, 67-81.	1.6	104
11	The formation of spiral arms and rings in barred galaxies. Astronomy and Astrophysics, 2007, 472, 63-75.	2.1	103
12	Understanding the spiral structure of the Milky Way using the local kinematic groups. Monthly Notices of the Royal Astronomical Society, 2011, 418, 1423-1440.	1.6	91
13	Rings and spirals in barred galaxies Ã¢Â€Â“ II. Ring and spiral morphology. Monthly Notices of the Royal Astronomical Society, 2009, 400, 1706-1720.	1.6	87
14	GaiaData Release 1. Astronomy and Astrophysics, 2017, 599, A50.	2.1	84
15	Rings and spirals in barred galaxies - III. Further comparisons and links to observations. Monthly Notices of the Royal Astronomical Society, 2010, 407, 1433-1448.	1.6	79
16	GaiaData Release 2. Astronomy and Astrophysics, 2018, 616, A13.	2.1	78
17	Gaia Data Release 1. Astronomy and Astrophysics, 2017, 605, A79.	2.1	78
18	Gaia Data Release 1. Astronomy and Astrophysics, 2017, 601, A19.	2.1	77

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19	On galaxy spiral armsâ€™ nature as revealed by rotation frequencies. Monthly Notices of the Royal Astronomical Society, 2013, 432, 2878-2885.	1.6	64
20	3D kinematics and age distribution of the open cluster population. Astronomy and Astrophysics, 2021, 647, A19.	2.1	63
21	Gaia kinematics reveal a complex lopsided and twisted Galactic disc warp. Astronomy and Astrophysics, 2019, 627, A150.	2.1	46
22	Modelling the inner disc of the Milky Way with manifolds - I. A first step. Monthly Notices of the Royal Astronomical Society, 2011, 418, 1176-1193.	1.6	40
23	The analysis of realistic stellar Gaia mock catalogues â€“ I. Red clump stars as tracers of the central bar. Monthly Notices of the Royal Astronomical Society, 2015, 447, 218-233.	1.6	28
24	NGC 6705 a young Î±-enhanced open cluster from OCCASO data. Astronomy and Astrophysics, 2018, 610, A66.	2.1	18
25	Characterizing the Galactic warp with Gaia â€“ I. The tilted ring model with a twist. Monthly Notices of the Royal Astronomical Society, 2014, 442, 3627-3642.	1.6	17
26	A novel method to bracket the corotation radius in galaxy discs: vertex deviation maps. Monthly Notices of the Royal Astronomical Society, 2014, 440, 1950-1963.	1.6	15
27	The role of the unstable equilibrium points in the transfer of matter in galactic potentials. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 4123-4138.	1.7	12
28	Tycho's Supernova: The View from Gaia. Astrophysical Journal, 2019, 870, 135.	1.6	12
29	Warp evidence in precessing galactic bar models. Astronomy and Astrophysics, 2016, 588, A76.	2.1	6
30	The young open cluster NGC 7067 using StrÃ¶mgren photometry. Monthly Notices of the Royal Astronomical Society, 2017, 466, 3636-3647.	1.6	5
31	OCCASO IV. Radial velocities and open cluster kinematics. Astronomy and Astrophysics, 0, , .	2.1	5
32	Kinematic groups across the MW disc: Insights from models and from the RAVE catalogue. EPJ Web of Conferences, 2012, 19, 05002.	0.1	3
33	From manifolds to Lagrangian coherent structures in galactic bar models. Astronomy and Astrophysics, 2018, 618, A72.	2.1	3
34	On the characterization of the Galactic warp in the Gaia era. EAS Publications Series, 2014, 67-68, 237-240.	0.3	1
35	Large scale characterization of the stellar velocity distribution in the galactic disk. EPJ Web of Conferences, 2012, 19, 05011.	0.1	0
36	Applying the manifold theory to Milky Way models: First steps on morphology and kinematics. EPJ Web of Conferences, 2012, 19, 10006.	0.1	0

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37	Novel kinematic methods to trace Spiral Arms nature using Gaia data. EAS Publications Series, 2014, 67-68, 393-394.	0.3	0
38	A view of the Galactic bar in the Gaia space of observables. EAS Publications Series, 2014, 67-68, 87-90.	0.3	0
39	Invariant manifolds as building blocks for the formation of spiral arms and rings in barred galaxies. Thirty Years of Astronomical Discovery With UKIRT, 2008, , 85-92.	0.3	0
40	The Role of Invariant Manifolds inÂtheÂFormation of Spiral Arms and Rings inÂBarred Galaxies. , 2011, , 95-98.		0