Merce Romero-Gomez

List of Publications by Citations

36 papers	11,472 citations	21 h-index	40 g-index
40 ext. papers	13,725 ext. citations	5 avg, IF	4.37 L-index

#	Paper	IF	Citations
36	Gaia Data Release 2. *Astronomy and Astrophysics*, **2018**, 616, A1	5.1	4787
35	TheGaiamission. *Astronomy and Astrophysics*, **2016**, 595, A1	5.1	2933
34	GaiaData Release 1. *Astronomy and Astrophysics*, **2016**, 595, A2	5.1	1364
33	Gaia Data Release 2. *Astronomy and Astrophysics*, **2018**, 616, A10	5.1	438
32	Gaia Data Release 2. *Astronomy and Astrophysics*, **2018**, 616, A12	5.1	384
31	Gaia Data Release 2. *Astronomy and Astrophysics*, **2018**, 616, A11	5.1	237
30	A dynamically young and perturbed Milky Way disk. *Nature*, **2018**, 561, 360-362	50.4	216
29	Gaia Data Release 2. *Astronomy and Astrophysics*, **2018**, 616, A14	5.1	100
28	Rings and spirals in barred galaxies - I. Building blocks. *Monthly Notices of the Royal Astronomical Society*, **2009**, 394, 67-81	4.3	97
27	The origin of rR1 ring structures in barred galaxies. *Astronomy and Astrophysics*, **2006**, 453, 39-45	5.1	97
26	The formation of spiral arms and rings in barred galaxies. *Astronomy and Astrophysics*, **2007**, 472, 63-75	5.1	95
25	Understanding the spiral structure of the Milky Way using the local kinematic groups. *Monthly Notices of the Royal Astronomical Society*, **2011**, 418, 1423-1440	4.3	83
24	Rings and spirals in barred galaxies ⁉ II. Ring and spiral morphology. *Monthly Notices of the Royal Astronomical Society*, **2009**, 400, 1706-1720	4.3	76
23	Gaia Data Release 1. *Astronomy and Astrophysics*, **2017**, 599, A50	5.1	75
22	Gaia Data Release 1. *Astronomy and Astrophysics*, **2017**, 601, A19	5.1	71
21	Rings and spirals in barred galaxies - III. Further comparisons and links to observations. *Monthly Notices of the Royal Astronomical Society*, **2010**, 407, 1433-1448	4.3	70
20	Gaia Data Release 1. *Astronomy and Astrophysics*, **2017**, 605, A79	5.1	64

19	Gaia Data Release 2. *Astronomy and Astrophysics*, **2018**, 616, A13	5.1	56
18	On galaxy spiral armsâ□hature as revealed by rotation frequencies. *Monthly Notices of the Royal Astronomical Society*, **2013**, 432, 2878-2885	4.3	55
17	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	4.3	38
16	Gaia kinematics reveal a complex lopsided and twisted Galactic disc warp. *Astronomy and Astrophysics*, **2019**, 627, A150	5.1	28
15	The analysis of realistic stellar Gaia mock catalogues â□. Red clump stars as tracers of the central bar. *Monthly Notices of the Royal Astronomical Society*, **2015**, 447, 218-233	4.3	21
14	Characterizing the Galactic warp with Gaia â□. The tilted ring model with a twist. *Monthly Notices of the Royal Astronomical Society*, **2014**, 442, 3627-3642	4.3	17
13	3D kinematics and age distribution of the open cluster population. *Astronomy and Astrophysics*, **2021**, 647, A19	5.1	17
12	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	4.3	12
11	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	3.7	11
10	NGC 6705 a young □enhanced open cluster from OCCASO data. *Astronomy and Astrophysics*, **2018**, 610, A66	5.1	10
9	Tycho's Supernova: The View from Gaia. *Astrophysical Journal*, **2019**, 870, 135	4.7	5
8	The young open cluster NGC 7067 using Str□ngren photometry. *Monthly Notices of the Royal Astronomical Society*, **2017**, 466, 3636-3647	4.3	4
7	Warp evidence in precessing galactic bar models. *Astronomy and Astrophysics*, **2016**, 588, A76	5.1	4
6	Kinematic groups across the MW disc: Insights from models and from the RAVE catalogue. *EPJ Web of Conferences*, **2012**, 19, 05002	0.3	3
5	On the characterization of the Galactic warp in the Gaia era. *EAS Publications Series*, **2014**, 67-68, 237-240	0.2	1
4	From manifolds to Lagrangian coherent structures in galactic bar models. *Astronomy and Astrophysics*, **2018**, 618, A72	5.1	1
3	A view of the Galactic bar in the Gaia space of observables. *EAS Publications Series*, **2014**, 67-68, 87-90	0.2	
2	Novel kinematic methods to trace Spiral Arms nature using Gaia data. *EAS Publications Series*, **2014**, 67-68, 393-394	0.2	

1 The Role of Invariant Manifolds in the Formation of Spiral Arms and Rings in Barred Galaxies **2011**, 95-98