

Javier Ballesteros-Paredes

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

1,972
citations

257450
24
h-index

302126
39
g-index

44
all docs

44
docs citations

44
times ranked

1596
citing authors

#	ARTICLE	IF	CITATIONS
1	Gravity or turbulence? Velocity dispersion-size relation. Monthly Notices of the Royal Astronomical Society, 2011, 411, 65-70.	4.4	188
2	Global hierarchical collapse in molecular clouds. Towards a comprehensive scenario. Monthly Notices of the Royal Astronomical Society, 2019, 490, 3061-3097.	4.4	164
3	Gravity or turbulence? - II. Evolving column density probability distribution functions in molecular clouds. Monthly Notices of the Royal Astronomical Society, 2011, 416, 1436-1442.	4.4	139
4	HIGH- AND LOW-MASS STAR-FORMING REGIONS FROM HIERARCHICAL GRAVITATIONAL FRAGMENTATION. HIGH LOCAL STAR FORMATION RATES WITH LOW GLOBAL EFFICIENCIES. Astrophysical Journal, 2009, 707, 1023-1033.	4.5	125
5	MOLECULAR CLOUD EVOLUTION. III. ACCRETION VERSUS STELLAR FEEDBACK. Astrophysical Journal, 2010, 715, 1302-1317.	4.5	105
6	Six myths on the virial theorem for interstellar clouds. Monthly Notices of the Royal Astronomical Society, 2006, 372, 443-449.	4.4	101
7	A Search for Larsonâ€™type Relations in Numerical Simulations of the ISM: Evidence for Nonconstant Column Densities. Astrophysical Journal, 1997, 474, 292-307.	4.5	96
8	The Molecular Cloud Lifecycle. Space Science Reviews, 2020, 216, 50.	8.1	77
9	GRAVITATIONAL COLLAPSE AND FILAMENT FORMATION: COMPARISON WITH THE PIPE NEBULA. Astrophysical Journal, 2009, 704, 1735-1742.	4.5	73
10	Rapid star formation and global gravitational collapse. Monthly Notices of the Royal Astronomical Society, 2012, 420, 1457-1461.	4.4	72
11	Star Formation Efficiency in Driven, Supercritical, Turbulent Clouds. Astrophysical Journal, 2005, 630, L49-L52.	4.5	65
12	The Physics of Star Cluster Formation and Evolution. Space Science Reviews, 2020, 216, 1.	8.1	65
13	Gravity or turbulence? â€“ III. Evidence of pure thermal Jeans fragmentation at ~ 40.1 Åpc scale. Monthly Notices of the Royal Astronomical Society, 2015, 453, 3786-3798.	4.4	64
14	Dynamics of cluster-forming hub-filament systems. Astronomy and Astrophysics, 2019, 629, A81.	5.1	62
15	On the structure of molecular clouds. Monthly Notices of the Royal Astronomical Society, 2012, 427, 2562-2571.	4.4	46
16	Bondiâ€™Hoyleâ€™Littleton accretion and the upper-mass stellar initial mass function. Monthly Notices of the Royal Astronomical Society, 2015, 452, 566-574.	4.4	39
17	From Diffuse Gas to Dense Molecular Cloud Cores. Space Science Reviews, 2020, 216, 1.	8.1	38
18	The nature of the velocity field in molecular clouds - I. The non-magnetic case. Monthly Notices of the Royal Astronomical Society, 2008, , .	4.4	32

#	ARTICLE	IF	CITATIONS
19	SIGNATURES OF STAR CLUSTER FORMATION BY COLD COLLAPSE. <i>Astrophysical Journal</i> , 2015, 815, 27.	4.5	32
20	ENERGY BUDGET OF FORMING CLUMPS IN NUMERICAL SIMULATIONS OF COLLAPSING CLOUDS. <i>Astrophysical Journal</i> , 2016, 833, 113.	4.5	32
21	Are fibres in molecular cloud filaments real objects?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 472, 647-656.	4.4	31
22	The Origin of the Stellar Mass Distribution and Multiplicity. <i>Space Science Reviews</i> , 2020, 216, 1.	8.1	29
23	A HERSCHEL VIEW OF PROTOPLANETARY DISKS IN THE ρ ORI CLUSTER. <i>Astrophysical Journal</i> , 2016, 829, 38.	4.5	26
24	Gravity or turbulence? IV. Collapsing cores in out-of-virial disguise. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	4.4	26
25	Tracers of stellar mass loss - I. Optical and near-IR colours and surface brightness fluctuations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 403, 1213-1238.	4.4	25
26	Kinematics and structure of star-forming regions: insights from cold collapse models. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 473, 2372-2377.	4.4	23
27	Tidal forces as a regulator of star formation in Taurus. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2009, 395, L81-L84.	3.3	22
28	On the gravitational content of molecular clouds and their cores. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 393, 1563-1572.	4.4	21
29	Magnetized Converging Flows toward the Hot Core in the Intermediate/High-mass Star-forming Region NGC 6334 V. <i>Astrophysical Journal</i> , 2017, 844, 44.	4.5	20
30	Structure and expansion law of H_2 regions in structured molecular clouds. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 487, 2200-2214.	4.4	20
31	Flipping-up the field: gravitational feedback as a mechanism for young clusters dispersal. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 488, 3406-3415.	4.4	17
32	Turbulent Fragmentation and Star Formation. <i>Astrophysics and Space Science</i> , 2004, 292, 193-205.	1.4	16
33	The number fraction of discs around brown dwarfs in Orion OB1a and the 25 Orionis group. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 450, 3490-3502.	4.4	15
34	Molecular cloud formation as seen in synthetic H_2 and molecular gas observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 452, 1353-1374.	4.4	14
35	Herschel PACS Observations of ~ 10 Myr Old Classical T Tauri Stars in Orion OB1. <i>Astrophysical Journal</i> , 2018, 859, 1.	4.5	14
36	The Role of Gravity in Producing Power-law Mass Functions. <i>Astrophysical Journal</i> , 2018, 868, 50.	4.5	10

#	ARTICLE	IF	CITATIONS
37	What is the physics behind the Larson mass-size relation?. Monthly Notices of the Royal Astronomical Society, 2019, 490, 2648-2655.	4.4	10
38	Why most molecular clouds are gravitationally dominated. Monthly Notices of the Royal Astronomical Society, 2022, 515, 2822-2836.	4.4	7
39	Molecular Clouds: Formation and Disruption. Astrophysics and Space Science, 2004, 289, 243-254.	1.4	6
40	DARK MATTER AS AN ACTIVE GRAVITATIONAL AGENT IN CLOUD COMPLEXES. Astrophysical Journal, 2012, 748, 101.	4.5	3
41	Gravity or turbulence V: Star forming regions undergoing violent relaxation. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	2
42	Surface brightness fluctuations, tracers of stellar mass-loss?. Proceedings of the International Astronomical Union, 2009, 5, 48-51.	0.0	0