

# Javier Ballesteros-Paredes

## List of Publications by Year in descending order

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Version: 2024-02-01

42  
papers

1,972  
citations

257357

24  
h-index

302012

39  
g-index

44  
all docs

44  
docs citations

44  
times ranked

1596  
citing authors

#	ARTICLE	IF	CITATIONS
1	Why most molecular clouds are gravitationally dominated. Monthly Notices of the Royal Astronomical Society, 2022, 515, 2822-2836.	1.6	7
2	The Physics of Star Cluster Formation and Evolution. Space Science Reviews, 2020, 216, 1.	3.7	65
3	The Origin of the Stellar Mass Distribution and Multiplicity. Space Science Reviews, 2020, 216, 1.	3.7	29
4	The Molecular Cloud Lifecycle. Space Science Reviews, 2020, 216, 50.	3.7	77
5	From Diffuse Gas to Dense Molecular Cloud Cores. Space Science Reviews, 2020, 216, 1.	3.7	38
6	Structure and expansion law of H <sub>ii</sub> regions in structured molecular clouds. Monthly Notices of the Royal Astronomical Society, 2019, 487, 2200-2214.	1.6	20
7	What is the physics behind the Larson mass-size relation?. Monthly Notices of the Royal Astronomical Society, 2019, 490, 2648-2655.	1.6	10
8	Global hierarchical collapse in molecular clouds. Towards a comprehensive scenario. Monthly Notices of the Royal Astronomical Society, 2019, 490, 3061-3097.	1.6	164
9	Dynamics of cluster-forming hub-filament systems. Astronomy and Astrophysics, 2019, 629, A81.	2.1	62
10	Flipping-up the field: gravitational feedback as a mechanism for young clusters dispersal. Monthly Notices of the Royal Astronomical Society, 2019, 488, 3406-3415.	1.6	17
11	Herschel PACS Observations of ~10 Myr Old Classical T Tauri Stars in Orion OB1. Astrophysical Journal, 2018, 859, 1.	1.6	14
12	The Role of Gravity in Producing Power-law Mass Functions. Astrophysical Journal, 2018, 868, 50.	1.6	10
13	Kinematics and structure of star-forming regions: insights from cold collapse models. Monthly Notices of the Royal Astronomical Society, 2018, 473, 2372-2377.	1.6	23
14	Magnetized Converging Flows toward the Hot Core in the Intermediate/High-mass Star-forming Region NGC 6334 V. Astrophysical Journal, 2017, 844, 44.	1.6	20
15	Are fibres in molecular cloud filaments real objects?. Monthly Notices of the Royal Astronomical Society, 2017, 472, 647-656.	1.6	31
16	ENERGY BUDGET OF FORMING CLUMPS IN NUMERICAL SIMULATIONS OF COLLAPSING CLOUDS. Astrophysical Journal, 2016, 833, 113.	1.6	32
17	A HERSCHEL VIEW OF PROTOPLANETARY DISKS IN THE Œ ORI CLUSTER. Astrophysical Journal, 2016, 829, 38.	1.6	26
18	SIGNATURES OF STAR CLUSTER FORMATION BY COLD COLLAPSE. Astrophysical Journal, 2015, 815, 27.	1.6	32

#	ARTICLE	IF	CITATIONS
19	Molecular cloud formation as seen in synthetic H $\alpha$ and molecular gas observations. Monthly Notices of the Royal Astronomical Society, 2015, 452, 1353-1374.	1.6	14
20	The number fraction of discs around brown dwarfs in Orion OB1a and the 25 Orionis group. Monthly Notices of the Royal Astronomical Society, 2015, 450, 3490-3502.	1.6	15
21	Gravity or turbulence? III. Evidence of pure thermal Jeans fragmentation at $\sim 0.1$ pc scale. Monthly Notices of the Royal Astronomical Society, 2015, 453, 3786-3798.	1.6	64
22	Bondi-Hoyle-Littleton accretion and the upper-mass stellar initial mass function. Monthly Notices of the Royal Astronomical Society, 2015, 452, 566-574.	1.6	39
23	DARK MATTER AS AN ACTIVE GRAVITATIONAL AGENT IN CLOUD COMPLEXES. Astrophysical Journal, 2012, 748, 101.	1.6	3
24	On the structure of molecular clouds. Monthly Notices of the Royal Astronomical Society, 2012, 427, 2562-2571.	1.6	46
25	Rapid star formation and global gravitational collapse. Monthly Notices of the Royal Astronomical Society, 2012, 420, 1457-1461.	1.6	72
26	Gravity or turbulence? Velocity dispersion-size relation. Monthly Notices of the Royal Astronomical Society, 2011, 411, 65-70.	1.6	188
27	Gravity or turbulence? - II. Evolving column density probability distribution functions in molecular clouds. Monthly Notices of the Royal Astronomical Society, 2011, 416, 1436-1442.	1.6	139
28	MOLECULAR CLOUD EVOLUTION. III. ACCRETION VERSUS STELLAR FEEDBACK. Astrophysical Journal, 2010, 715, 1302-1317.	1.6	105
29	Tracers of stellar mass loss - I. Optical and near-IR colours and surface brightness fluctuations. Monthly Notices of the Royal Astronomical Society, 2010, 403, 1213-1238.	1.6	25
30	GRAVITATIONAL COLLAPSE AND FILAMENT FORMATION: COMPARISON WITH THE PIPE NEBULA. Astrophysical Journal, 2009, 704, 1735-1742.	1.6	73
31	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.	1.6	125
32	On the gravitational content of molecular clouds and their cores. Monthly Notices of the Royal Astronomical Society, 2009, 393, 1563-1572.	1.6	21
33	Tidal forces as a regulator of star formation in Taurus. Monthly Notices of the Royal Astronomical Society: Letters, 2009, 395, L81-L84.	1.2	22
34	Surface brightness fluctuations, tracers of stellar mass-loss?. Proceedings of the International Astronomical Union, 2009, 5, 48-51.	0.0	0
35	The nature of the velocity field in molecular clouds - I. The non-magnetic case. Monthly Notices of the Royal Astronomical Society, 2008, , .	1.6	32
36	Six myths on the virial theorem for interstellar clouds. Monthly Notices of the Royal Astronomical Society, 2006, 372, 443-449.	1.6	101

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37	Star Formation Efficiency in Driven, Supercritical, Turbulent Clouds. <i>Astrophysical Journal</i> , 2005, 630, L49-L52.	1.6	65
38	Molecular Clouds: Formation and Disruption. <i>Astrophysics and Space Science</i> , 2004, 289, 243-254.	0.5	6
39	Turbulent Fragmentation and Star Formation. <i>Astrophysics and Space Science</i> , 2004, 292, 193-205.	0.5	16
40	A Search for Larson's Type Relations in Numerical Simulations of the ISM: Evidence for Nonconstant Column Densities. <i>Astrophysical Journal</i> , 1997, 474, 292-307.	1.6	96
41	Gravity or turbulence? IV. Collapsing cores in out-of-virial disguise. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	1.6	26
42	Gravity or turbulence V: Star forming regions undergoing violent relaxation. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	1.6	2