

HÃ©ctor G Arce

List of Publications by Year in descending order

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83
papers

3,837
citations

87888

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times ranked

2569
citing authors

#	ARTICLE	IF	CITATIONS
1	The Evolution of Outflowâ€Envelope Interactions in Lowâ€Mass Protostars. <i>Astrophysical Journal</i> , 2006, 646, 1070-1085.	4.5	243
2	The COMPLETE Survey of Star-Forming Regions: Phase I Data. <i>Astronomical Journal</i> , 2006, 131, 2921-2933.	4.7	227
3	DIRECT OBSERVATION OF A SHARP TRANSITION TO COHERENCE IN DENSE CORES. <i>Astrophysical Journal Letters</i> , 2010, 712, L116-L121.	8.3	149
4	SMA OBSERVATIONS OF CLASS 0 PROTOSTARS: A HIGH ANGULAR RESOLUTION SURVEY OF PROTOSTELLAR BINARY SYSTEMS. <i>Astrophysical Journal</i> , 2013, 768, 110.	4.5	123
5	THE COMPLETE SURVEY OF OUTFLOWS IN PERSEUS. <i>Astrophysical Journal</i> , 2010, 715, 1170-1190.	4.5	121
6	The Green Bank Ammonia Survey: First Results of NH ₃ Mapping of the Gould Belt. <i>Astrophysical Journal</i> , 2017, 843, 63.	4.5	115
7	Protoplanetary Disk Properties in the Orion Nebula Cluster: Initial Results from Deep, High-resolution ALMA Observations. <i>Astrophysical Journal</i> , 2018, 860, 77.	4.5	103
8	THE FACTORY AND THE BEEHIVE. II. ACTIVITY AND ROTATION IN PRAESEPE AND THE HYADES. <i>Astrophysical Journal</i> , 2014, 795, 161.	4.5	97
9	MOLECULAR OUTFLOWS DRIVEN BY LOW-MASS PROTOSTARS. I. CORRECTING FOR UNDERESTIMATES WHEN MEASURING OUTFLOW MASSES AND DYNAMICAL PROPERTIES. <i>Astrophysical Journal</i> , 2014, 783, 29.	4.5	93
10	The formation of a quadruple star system with wide separation. <i>Nature</i> , 2015, 518, 213-215.	27.8	93
11	CARMA OBSERVATIONS OF PROTOSTELLAR OUTFLOWS IN NGC 1333. <i>Astrophysical Journal</i> , 2013, 774, 22.	4.5	89
12	THE LUMINOSITIES OF PROTOSTARS IN THE SPITZER AND GOULD BELT LEGACY CLOUDS. <i>Astronomical Journal</i> , 2013, 145, 94.	4.7	88
13	IN-SYNC. II. VIRIAL STARS FROM SUBVIRIAL CORESâ€THE VELOCITY DISPERSION OF EMBEDDED PRE-MAIN-SEQUENCE STARS IN NGC 1333. <i>Astrophysical Journal</i> , 2015, 799, 136.	4.5	88
14	THE ENIGMATIC CORE L1451-mm: A FIRST HYDROSTATIC CORE? OR A HIDDEN VELLO?. <i>Astrophysical Journal</i> , 2011, 743, 201.	4.5	87
15	A BUBBLING NEARBY MOLECULAR CLOUD: COMPLETE SHELLS IN PERSEUS. <i>Astrophysical Journal</i> , 2011, 742, 105.	4.5	85
16	L1448 IRS2E: A CANDIDATE FIRST HYDROSTATIC CORE. <i>Astrophysical Journal</i> , 2010, 715, 1344-1351.	4.5	84
17	The Episodic, Precessing Giant Molecular Outflow from IRAS 04239+2436 (HH 300). <i>Astrophysical Journal</i> , 2001, 554, 132-151.	4.5	82
18	THE TURBULENT ORIGIN OF OUTFLOW AND SPIN MISALIGNMENT IN MULTIPLE STAR SYSTEMS. <i>Astrophysical Journal Letters</i> , 2016, 827, L11.	8.3	78

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19	The ALMA View of the OMC1 Explosion in Orion. <i>Astrophysical Journal</i> , 2017, 837, 60.	4.5	75
20	DETECTION OF A BIPOLAR MOLECULAR OUTFLOW DRIVEN BY A CANDIDATE FIRST HYDROSTATIC CORE. <i>Astrophysical Journal</i> , 2011, 742, 1.	4.5	71
21	INVESTIGATIONS OF PROTOSTELLAR OUTFLOW LAUNCHING AND GAS ENTRAINMENT: HYDRODYNAMIC SIMULATIONS AND MOLECULAR EMISSION. <i>Astrophysical Journal</i> , 2014, 784, 61.	4.5	71
22	ALMA OBSERVATIONS OF THE HH 46/47 MOLECULAR OUTFLOW. <i>Astrophysical Journal</i> , 2013, 774, 39.	4.5	70
23	Episodic molecular outflow in the very young protostellar cluster Serpens South. <i>Nature</i> , 2015, 527, 70-73.	27.8	68
24	The CARMA-NRO Orion Survey. <i>Astrophysical Journal</i> , Supplement Series, 2018, 236, 25.	7.7	64
25	MISALIGNMENT OF OUTFLOW AXES IN THE PROTO-MULTIPLE SYSTEMS IN PERSEUS. <i>Astrophysical Journal Letters</i> , 2016, 820, L2.	8.3	60
26	The Green Bank Ammonia Survey: Dense Cores under Pressure in Orion A. <i>Astrophysical Journal</i> , 2017, 846, 144.	4.5	60
27	EXPANDED VERY LARGE ARRAY OBSERVATIONS OF THE BARNARD 5 STAR-FORMING CORE: EMBEDDED FILAMENTS REVEALED. <i>Astrophysical Journal Letters</i> , 2011, 739, L2.	8.3	57
28	On the reliability of protostellar disc mass measurements and the existence of fragmenting discs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 444, 887-901.	4.4	52
29	CARMA LARGE AREA STAR FORMATION SURVEY: STRUCTURE AND KINEMATICS OF DENSE GAS IN SERPENS MAIN. <i>Astrophysical Journal</i> , 2014, 797, 76.	4.5	51
30	Alignment between Protostellar Outflows and Filamentary Structure. <i>Astrophysical Journal</i> , 2017, 846, 16.	4.5	47
31	The Mass-Velocity and Position-Velocity Relations in Episodic Outflows. <i>Astrophysical Journal</i> , 2001, 551, L171-L174.	4.5	46
32	IMPACT OF WINDS FROM INTERMEDIATE-MASS STARS ON MOLECULAR CLOUD STRUCTURE AND TURBULENCE. <i>Astrophysical Journal</i> , 2015, 811, 146.	4.5	46
33	Droplets. I. Pressure-dominated Coherent Structures in L1688 and B18. <i>Astrophysical Journal</i> , 2019, 877, 93.	4.5	46
34	The CARMA-NRO Orion Survey. <i>Astronomy and Astrophysics</i> , 2019, 623, A142.	5.1	45
35	SUBMILLIMETER ARRAY AND SPITZER OBSERVATIONS OF BOK GLOBULE CB 17: A CANDIDATE FIRST HYDROSTATIC CORE?. <i>Astrophysical Journal</i> , 2012, 751, 89.	4.5	44
36	AN ALMA SEARCH FOR SUBSTRUCTURE, FRAGMENTATION, AND HIDDEN PROTOSTARS IN STARLESS CORES IN CHAMAELEON I. <i>Astrophysical Journal</i> , 2016, 823, 160.	4.5	44

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37	ASSESSING MOLECULAR OUTFLOWS AND TURBULENCE IN THE PROTOSTELLAR CLUSTER SERPENS SOUTH. <i>Astrophysical Journal</i> , 2015, 803, 22.	4.5	40
38	ALMA CYCLE 1 OBSERVATIONS OF THE HH46/47 MOLECULAR OUTFLOW: STRUCTURE, ENTRAINMENT, AND CORE IMPACT. <i>Astrophysical Journal</i> , 2016, 832, 158.	4.5	39
39	CARMA LARGE AREA STAR FORMATION SURVEY: PROJECT OVERVIEW WITH ANALYSIS OF DENSE GAS STRUCTURE AND KINEMATICS IN BARNARD 1. <i>Astrophysical Journal</i> , 2014, 794, 165.	4.5	36
40	Dense Gas Kinematics and a Narrow Filament in the Orion A OMC1 Region Using NH ₃ . <i>Astrophysical Journal</i> , 2018, 861, 77.	4.5	36
41	MASS ASSEMBLY OF STELLAR SYSTEMS AND THEIR EVOLUTION WITH THE SMA (MASSES). MULTIPLICITY AND THE PHYSICAL ENVIRONMENT IN L1448N. <i>Astrophysical Journal</i> , 2015, 814, 114.	4.5	34
42	Widespread Molecular Outflows in the Infrared Dark Cloud G28.37+0.07: Indications of Orthogonal Outflow-filament Alignment. <i>Astrophysical Journal</i> , 2019, 874, 104.	4.5	34
43	ALMA Observations of Starless Core Substructure in Ophiuchus. <i>Astrophysical Journal</i> , 2017, 838, 114.	4.5	32
44	Pushing the Envelope: The Impact of an Outflow at the Earliest Stages of Star Formation. <i>Astrophysical Journal</i> , 2005, 624, 232-245.	4.5	30
45	An Episodic Wide-angle Outflow in HH 46/47. <i>Astrophysical Journal</i> , 2019, 883, 1.	4.5	30
46	Mass Assembly of Stellar Systems and Their Evolution with the SMA (MASSES)â€™ 1.3 mm Subcompact Data Release. <i>Astrophysical Journal</i> , Supplement Series, 2018, 237, 22.	7.7	29
47	THE DYNAMICS OF THE ENVELOPE SURROUNDING THE PROTOSTAR HH 211 mm. <i>Astrophysical Journal</i> , 2011, 726, 40.	4.5	26
48	The CARMAâ€™NRO Orion Survey: Protostellar Outflows, Energetics, and Filamentary Alignment. <i>Astrophysical Journal</i> , 2020, 896, 11.	4.5	24
49	REVEALING THE MILLIMETER ENVIRONMENT OF THE NEW FU ORIONIS CANDIDATE HBC722 WITH THE SUBMILLIMETER ARRAY. <i>Astrophysical Journal</i> , 2012, 755, 157.	4.5	23
50	The Formation Conditions of the Wide Binary Class 0 Protostars within BHR 71. <i>Astrophysical Journal</i> , 2019, 870, 81.	4.5	22
51	R CrA SMM 1A: FRAGMENTATION IN A PRESTELLAR CORE. <i>Astrophysical Journal Letters</i> , 2010, 720, L169-L173.	8.3	19
52	ROTATING BULLETS FROM A VARIABLE PROTOSTAR. <i>Astrophysical Journal</i> , 2016, 824, 72.	4.5	19
53	Evidence Suggesting That â€™Oumuamua Is the â€™430 Myr Old Product of a Molecular Cloud. <i>Astrophysical Journal</i> , 2021, 917, 20.	4.5	19
54	DISCOVERY OF A BINARY SYSTEM IN IRAM 04191+1522. <i>Astrophysical Journal Letters</i> , 2012, 747, L43.	8.3	18

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55	Expanding CO Shells in the Orion A Molecular Cloud. <i>Astrophysical Journal</i> , 2018, 862, 121.	4.5	18
56	Mass Assembly of Stellar Systems and Their Evolution with the SMA (MASSES)â€™ Full Data Release. <i>Astrophysical Journal, Supplement Series</i> , 2019, 245, 21.	7.7	18
57	CARMA LARGE AREA STAR FORMATION SURVEY: DENSE GAS IN THE YOUNG L1451 REGION OF PERSEUS. <i>Astrophysical Journal</i> , 2016, 830, 127.	4.5	16
58	The Green Bank Ammonia Survey: Observations of Hierarchical Dense Gas Structures in Cepheus-L1251. <i>Astrophysical Journal</i> , 2017, 850, 3.	4.5	16
59	Rotating Filament in Orion B: Do Cores Inherit Their Angular Momentum from Their Parent Filament?. <i>Astrophysical Journal</i> , 2021, 908, 92.	4.5	15
60	The Core Mass Function in the Orion Nebula Cluster Region: What Determines the Final Stellar Masses?. <i>Astrophysical Journal Letters</i> , 2021, 910, L6.	8.3	15
61	Kinematics of a Young Low-mass Star-forming Core: Understanding the Evolutionary State of the First-core Candidate L1451-mm. <i>Astrophysical Journal</i> , 2017, 838, 60.	4.5	15
62	ALMA observations of envelopes around first hydrostatic core candidates. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 4394-4417.	4.4	13
63	Dissecting the Supercritical Filaments Embedded in the 0.5 pc Subsonic Region of Barnard 5. <i>Astrophysical Journal</i> , 2021, 909, 60.	4.5	13
64	Evidence of Core Growth in the Dragon Infrared Dark Cloud: A Path for Massive Star Formation. <i>Astrophysical Journal</i> , 2021, 912, 156.	4.5	13
65	Are Massive Dense Clumps Truly Subvirial? A New Analysis Using Gould Belt Ammonia Data. <i>Astrophysical Journal</i> , 2021, 922, 87.	4.5	13
66	Nobeyama 45 m mapping observations toward Orion A. I. Molecular outflows. <i>Publication of the Astronomical Society of Japan</i> , 2019, 71, .	2.5	11
67	A Turbulent Origin for the Complex Envelope Kinematics in the Young Low-mass Core Per-bolo 58. <i>Astrophysical Journal</i> , 2017, 849, 89.	4.5	10
68	Relative alignment between dense molecular cores and ambient magnetic field: the synergy of numerical models and observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 1971-1987.	4.4	9
69	A CATALOG OF LOW-MASS STAR-FORMING CORES OBSERVED WITH SHARC-II AT 350 $\hat{1}$ / ₄ m. <i>Astronomical Journal</i> , 2016, 152, 36.	4.7	8
70	Core Emergence in a Massive Infrared Dark Cloud: A Comparison between Mid-IR Extinction and 1.3 mm Emission. <i>Astrophysical Journal Letters</i> , 2018, 855, L25.	8.3	8
71	PREDICTIONS FOR OBSERVING PROTOSTELLAR OUTFLOWS WITH ALMA. <i>Astrophysical Journal</i> , 2015, 802, 86.	4.5	7
72	A Census of Protostellar Outflows in Nearby Molecular Clouds. <i>Astrophysical Journal</i> , 2022, 926, 19.	4.5	7

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73	The CARMA-NRO Orion Survey: Core Emergence and Kinematics in the Orion A Cloud. <i>Astrophysical Journal</i> , 2019, 882, 45.	4.5	6
74	The CARMA-NRO Orion Survey: Statistical Signatures of Feedback in the Orion A Molecular Cloud. <i>Astrophysical Journal</i> , 2019, 875, 162.	4.5	6
75	The CARMA-NRO Orion Survey: Filament Formation via Collision-induced Magnetic Reconnection in the Stick in Orion A. <i>Astrophysical Journal</i> , 2021, 906, 80.	4.5	6
76	VLA and NOEMA Views of Bok Globule CB 17: The Starless Nature of a Proposed First Hydrostatic Core Candidate. <i>Astrophysical Journal</i> , 2021, 923, 231.	4.5	6
77	Star Formation in a Strongly Magnetized Cloud. <i>Astrophysical Journal</i> , 2021, 916, 78.	4.5	4
78	Evolution and Kinematics of Protostellar Envelopes in the Perseus Molecular Cloud. <i>Astrophysical Journal</i> , 2022, 927, 88.	4.5	4
79	Detection of 4765 MHz OH Emission in a Preplanetary Nebula: CRL 618. <i>Astrophysical Journal</i> , 2019, 878, 90.	4.5	3
80	The CARMA-NRO Orion Survey Data Release. <i>Research Notes of the AAS</i> , 2021, 5, 55.	0.7	2
81	High-resolution CARMA Observation of Molecular Gas in the North America and Pelican Nebulae. <i>Astronomical Journal</i> , 2021, 161, 229.	4.7	2
82	Detection of a Disk Surrounding the Variably Accreting Young Star HBC722. <i>Research Notes of the AAS</i> , 2020, 4, 155.	0.7	1
83	Outflows and Turbulence in Young Stellar Clusters - An Observer's View. <i>Proceedings of the International Astronomical Union</i> , 2010, 6, 287-290.	0.0	0