

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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123424

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docs citations

84
times ranked

2569
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | A Census of Protostellar Outflows in Nearby Molecular Clouds. <i>Astrophysical Journal</i> , 2022, 926, 19. | 4.5 | 7 |
| 2 | Evolution and Kinematics of Protostellar Envelopes in the Perseus Molecular Cloud. <i>Astrophysical Journal</i> , 2022, 927, 88. | 4.5 | 4 |
| 3 | 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 |
| 4 | The CARMA-NRO Orion Surveyâ€™Data Release. <i>Research Notes of the AAS</i> , 2021, 5, 55. | 0.7 | 2 |
| 5 | 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 |
| 6 | 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 |
| 7 | High-resolution CARMA Observation of Molecular Gas in the North America and Pelican Nebulae. <i>Astronomical Journal</i> , 2021, 161, 229. | 4.7 | 2 |
| 8 | 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 |
| 9 | Star Formation in a Strongly Magnetized Cloud. <i>Astrophysical Journal</i> , 2021, 916, 78. | 4.5 | 4 |
| 10 | Evidence Suggesting That â€™Oumuamua Is the â€™¼30 Myr Old Product of a Molecular Cloud. <i>Astrophysical Journal</i> , 2021, 917, 20. | 4.5 | 19 |
| 11 | The CARMA-NRO Orion Survey: Filament Formation via Collision-induced Magnetic Reconnectionâ€™the Stick in Orion A. <i>Astrophysical Journal</i> , 2021, 906, 80. | 4.5 | 6 |
| 12 | Are Massive Dense Clumps Truly Subvirial? A New Analysis Using Gould Belt Ammonia Data. <i>Astrophysical Journal</i> , 2021, 922, 87. | 4.5 | 13 |
| 13 | 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 |
| 14 | 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 |
| 15 | The CARMAâ€™NRO Orion Survey: Protostellar Outflows, Energetics, and Filamentary Alignment. <i>Astrophysical Journal</i> , 2020, 896, 11. | 4.5 | 24 |
| 16 | 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 |
| 17 | Detection of a Disk Surrounding the Variably Accreting Young Star HBC722. <i>Research Notes of the AAS</i> , 2020, 4, 155. | 0.7 | 1 |
| 18 | Droplets. I. Pressure-dominated Coherent Structures in L1688 and B18. <i>Astrophysical Journal</i> , 2019, 877, 93. | 4.5 | 46 |

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|----|---|-----|-----------|
| 19 | Detection of 4765 MHz OH Emission in a Preplanetary Nebula: CRL 618. <i>Astrophysical Journal</i> , 2019, 878, 90. | 4.5 | 3 |
| 20 | An Episodic Wide-angle Outflow in HH 46/47. <i>Astrophysical Journal</i> , 2019, 883, 1. | 4.5 | 30 |
| 21 | The CARMA-NRO Orion Survey: Core Emergence and Kinematics in the Orion A Cloud. <i>Astrophysical Journal</i> , 2019, 882, 45. | 4.5 | 6 |
| 22 | The Formation Conditions of the Wide Binary Class 0 Protostars within BHR 71. <i>Astrophysical Journal</i> , 2019, 870, 81. | 4.5 | 22 |
| 23 | The CARMA-NRO Orion Survey. <i>Astronomy and Astrophysics</i> , 2019, 623, A142. | 5.1 | 45 |
| 24 | 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 |
| 25 | 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 |
| 26 | 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 |
| 27 | Mass Assembly of Stellar Systems and Their Evolution with the SMA (MASSES) Full Data Release. <i>Astrophysical Journal, Supplement Series</i> , 2019, 245, 21. | 7.7 | 18 |
| 28 | Mass Assembly of Stellar Systems and Their Evolution with the SMA (MASSES) 1.3 mm Subcompact Data Release. <i>Astrophysical Journal, Supplement Series</i> , 2018, 237, 22. | 7.7 | 29 |
| 29 | 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 |
| 30 | 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 |
| 31 | The CARMA-NRO Orion Survey. <i>Astrophysical Journal, Supplement Series</i> , 2018, 236, 25. | 7.7 | 64 |
| 32 | Expanding CO Shells in the Orion A Molecular Cloud. <i>Astrophysical Journal</i> , 2018, 862, 121. | 4.5 | 18 |
| 33 | 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 |
| 34 | The ALMA View of the OMC1 Explosion in Orion. <i>Astrophysical Journal</i> , 2017, 837, 60. | 4.5 | 75 |
| 35 | ALMA Observations of Starless Core Substructure in Ophiuchus. <i>Astrophysical Journal</i> , 2017, 838, 114. | 4.5 | 32 |
| 36 | The Green Bank Ammonia Survey: Dense Cores under Pressure in Orion A. <i>Astrophysical Journal</i> , 2017, 846, 144. | 4.5 | 60 |

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|----|---|------|-----------|
| 37 | Alignment between Protostellar Outflows and Filamentary Structure. <i>Astrophysical Journal</i> , 2017, 846, 16. | 4.5 | 47 |
| 38 | The Green Bank Ammonia Survey: Observations of Hierarchical Dense Gas Structures in Cepheus-L1251. <i>Astrophysical Journal</i> , 2017, 850, 3. | 4.5 | 16 |
| 39 | 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 |
| 40 | 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 |
| 41 | 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 |
| 42 | A CATALOG OF LOW-MASS STAR-FORMING CORES OBSERVED WITH SHARC-II AT 350 μ m. <i>Astronomical Journal</i> , 2016, 152, 36. | 4.7 | 8 |
| 43 | 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 |
| 44 | 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 |
| 45 | THE TURBULENT ORIGIN OF OUTFLOW AND SPIN MISALIGNMENT IN MULTIPLE STAR SYSTEMS. <i>Astrophysical Journal Letters</i> , 2016, 827, L11. | 8.3 | 78 |
| 46 | MISALIGNMENT OF OUTFLOW AXES IN THE PROTO-MULTIPLE SYSTEMS IN PERSEUS. <i>Astrophysical Journal Letters</i> , 2016, 820, L2. | 8.3 | 60 |
| 47 | 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 |
| 48 | ROTATING BULLETS FROM A VARIABLE PROTOSTAR. <i>Astrophysical Journal</i> , 2016, 824, 72. | 4.5 | 19 |
| 49 | IMPACT OF WINDS FROM INTERMEDIATE-MASS STARS ON MOLECULAR CLOUD STRUCTURE AND TURBULENCE. <i>Astrophysical Journal</i> , 2015, 811, 146. | 4.5 | 46 |
| 50 | 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 |
| 51 | The formation of a quadruple star system with wide separation. <i>Nature</i> , 2015, 518, 213-215. | 27.8 | 93 |
| 52 | IN-SYNC. II. VIRIAL STARS FROM SUBVIRIAL CORES – THE VELOCITY DISPERSION OF EMBEDDED PRE-MAIN-SEQUENCE STARS IN NGC 1333. <i>Astrophysical Journal</i> , 2015, 799, 136. | 4.5 | 88 |
| 53 | PREDICTIONS FOR OBSERVING PROTOSTELLAR OUTFLOWS WITH ALMA. <i>Astrophysical Journal</i> , 2015, 802, 86. | 4.5 | 7 |
| 54 | Episodic molecular outflow in the very young protostellar cluster Serpens South. <i>Nature</i> , 2015, 527, 70-73. | 27.8 | 68 |

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|----|--|-----|-----------|
| 55 | ASSESSING MOLECULAR OUTFLOWS AND TURBULENCE IN THE PROTOSTELLAR CLUSTER SERPENS SOUTH. <i>Astrophysical Journal</i> , 2015, 803, 22. | 4.5 | 40 |
| 56 | 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 |
| 57 | 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 |
| 58 | 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 |
| 59 | THE FACTORY AND THE BEEHIVE. II. ACTIVITY AND ROTATION IN PRAESEPE AND THE HYADES. <i>Astrophysical Journal</i> , 2014, 795, 161. | 4.5 | 97 |
| 60 | 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 |
| 61 | INVESTIGATIONS OF PROTOSTELLAR OUTFLOW LAUNCHING AND GAS ENTRAINMENT: HYDRODYNAMIC SIMULATIONS AND MOLECULAR EMISSION. <i>Astrophysical Journal</i> , 2014, 784, 61. | 4.5 | 71 |
| 62 | 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 |
| 63 | THE LUMINOSITIES OF PROTOSTARS IN THE SPITZER AND GOULD BELT LEGACY CLOUDS. <i>Astronomical Journal</i> , 2013, 145, 94. | 4.7 | 88 |
| 64 | CARMA OBSERVATIONS OF PROTOSTELLAR OUTFLOWS IN NGC 1333. <i>Astrophysical Journal</i> , 2013, 774, 22. | 4.5 | 89 |
| 65 | ALMA OBSERVATIONS OF THE HH 46/47 MOLECULAR OUTFLOW. <i>Astrophysical Journal</i> , 2013, 774, 39. | 4.5 | 70 |
| 66 | 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 |
| 67 | DISCOVERY OF A BINARY SYSTEM IN IRAM 04191+1522. <i>Astrophysical Journal Letters</i> , 2012, 747, L43. | 8.3 | 18 |
| 68 | 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 |
| 69 | A BUBBLING NEARBY MOLECULAR CLOUD: COMPLETE SHELLS IN PERSEUS. <i>Astrophysical Journal</i> , 2011, 742, 105. | 4.5 | 85 |
| 70 | 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 |
| 71 | THE ENIGMATIC CORE L1451-mm: A FIRST HYDROSTATIC CORE? OR A HIDDEN VeLLO?. <i>Astrophysical Journal</i> , 2011, 743, 201. | 4.5 | 87 |
| 72 | THE DYNAMICS OF THE ENVELOPE SURROUNDING THE PROTOSTAR HH 211 mm. <i>Astrophysical Journal</i> , 2011, 726, 40. | 4.5 | 26 |

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|----|--|-----|-----------|
| 73 | DETECTION OF A BIPOLAR MOLECULAR OUTFLOW DRIVEN BY A CANDIDATE FIRST HYDROSTATIC CORE. <i>Astrophysical Journal</i> , 2011, 742, 1. | 4.5 | 71 |
| 74 | 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 |
| 75 | R CrA SMM 1A: FRAGMENTATION IN A PRESTELLAR CORE. <i>Astrophysical Journal Letters</i> , 2010, 720, L169-L173. | 8.3 | 19 |
| 76 | L1448 IRS2E: A CANDIDATE FIRST HYDROSTATIC CORE. <i>Astrophysical Journal</i> , 2010, 715, 1344-1351. | 4.5 | 84 |
| 77 | DIRECT OBSERVATION OF A SHARP TRANSITION TO COHERENCE IN DENSE CORES. <i>Astrophysical Journal Letters</i> , 2010, 712, L116-L121. | 8.3 | 149 |
| 78 | THE COMPLETE SURVEY OF OUTFLOWS IN PERSEUS. <i>Astrophysical Journal</i> , 2010, 715, 1170-1190. | 4.5 | 121 |
| 79 | The COMPLETE Survey of Star-Forming Regions: Phase I Data. <i>Astronomical Journal</i> , 2006, 131, 2921-2933. | 4.7 | 227 |
| 80 | The Evolution of Outflow-Envelope Interactions in Low-Mass Protostars. <i>Astrophysical Journal</i> , 2006, 646, 1070-1085. | 4.5 | 243 |
| 81 | 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 |
| 82 | The Mass-Velocity and Position-Velocity Relations in Episodic Outflows. <i>Astrophysical Journal</i> , 2001, 551, L171-L174. | 4.5 | 46 |
| 83 | The Episodic, Precessing Giant Molecular Outflow from IRAS 04239+2436 (HH 300). <i>Astrophysical Journal</i> , 2001, 554, 132-151. | 4.5 | 82 |