# VÃ-ctor J SÃ¡nchez BÃ©jar

List of Publications by Year
in descending order

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|---|---|---|---|
| 126 papers | 5,346 citations | 57758 44 h-index | 102487 66 g-index |
| 127 all docs | 127 docs citations | 127 times ranked | 2660 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Spectrum radial velocity analyser (SERVAL). Astronomy and Astrophysics, 2018, 609, A12. | 5.1 | 266 |
| 2 | A Search for Very Low Mass Stars and Brown Dwarfs in the Young Ïƒ Orionis Cluster. Astrophysical Journal, 1999, 521, 671-681. | 4.5 | 174 |
| 3 | The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2018, 612, A49. | 5.1 | 173 |
| 4 | The Substellar Mass Function in Ïƒ Orionis. Astrophysical Journal, 2001, 556, 830-836. | 4.5 | 157 |
| 5 | Lithium and HÎ±in stars and brown dwarfs ofÏƒâ€‰Orionis. Astronomy and Astrophysics, 2002, 384, 937-953. | 5.1 | 155 |
| 6 | CARMENES instrument overview. Proceedings of SPIE, 2014, , . | 0.8 | 132 |
| 7 | The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2019, 625, A68. | 5.1 | 123 |
| 8 | Detection of Heâ€Î»10830 â„« absorption on HD 189733 b with CARMENES high-resolution transmission spectroscopy. Astronomy and Astrophysics, 2018, 620, A97. | 5.1 | 120 |
| 9 | NEW ISOLATED PLANETARY-MASS OBJECTS AND THE STELLAR AND SUBSTELLAR MASS FUNCTION OF THE Ïƒ ORIONIS CLUSTER. Astrophysical Journal, 2012, 754, 30. | 4.5 | 116 |
| 10 | A candidate super-Earth planet orbiting near the snow line of Barnardâ€™s star. Nature, 2018, 563, 365-368. | 27.8 | 109 |
| 11 | The substellar mass function inÏƒÂOrionis. Astronomy and Astrophysics, 2007, 470, 903-918. | 5.1 | 108 |
| 12 | A Methane, Isolated, Planetaryâ€Mass Object in Orion. Astrophysical Journal, 2002, 578, 536-542. | 4.5 | 108 |
| 13 | Discovery of a Wide Companion near the Deuterium-burning Mass Limit in the Upper Scorpius Association. Astrophysical Journal, 2008, 673, L185-L189. | 4.5 | 106 |
| 14 | The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2018, 609, A117. | 5.1 | 103 |
| 15 | Planetary system around the nearby M dwarf GJ 357 including a transiting, hot, Earth-sized planet optimal for atmospheric characterization. Astronomy and Astrophysics, 2019, 628, A39. | 5.1 | 97 |
| 16 | The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2019, 627, A49. | 5.1 | 95 |
| 17 | Keck NIRC Observations of Planetary-Mass Candidate Members in the Ïƒ Orionis Open Cluster. Astrophysical Journal, 2001, 558, L117-L121. | 4.5 | 83 |
| 18 | Heâ€ÎÎ»10â€‰830 â„« in the transmission spectrum of HD209458 b. Astronomy and Astrophysics, 2019, 629, A110. | 5.1 | 81 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | A giant exoplanet orbiting a very-low-mass star challenges planet formation models. Science, 2019, 365, 1441-1445. | 12.6 | 78 |
| 20 | The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2018, 615, A6. | 5.1 | 73 |
| 21 | CARMENES input catalogue of M dwarfs. Astronomy and Astrophysics, 2019, 621, A126. | 5.1 | 73 |
| 22 | The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2019, 623, A44. | 5.1 | 70 |
| 23 | Optical spectroscopy of isolated planetary mass objects in the $mathsf{sigma}$ Orionis cluster. Astronomy and Astrophysics, 2001, 377, L9-L13. | 5.1 | 64 |
| 24 | A New Pleiades Member at the Lithium Substellar Boundary. Astrophysical Journal, 1998, 499, L61-L64. | 4.5 | 63 |
| 25 | Magnetic fields in M dwarfs from the CARMENES survey. Astronomy and Astrophysics, 2019, 626, A86. | 5.1 | 63 |
| 26 | Space Velocities of Lâ€•and Tâ€Type Dwarfs. Astrophysical Journal, 2007, 666, 1205-1218. | 4.5 | 62 |
| 27 | CARMENES input catalogue of M dwarfs. Astronomy and Astrophysics, 2017, 597, A47. | 5.1 | 60 |
| 28 | CARMENES: an overview six months after first light. Proceedings of SPIE, 2016, , . | 0.8 | 59 |
| 29 | Candidate free-floating super-Jupiters in the young Ïƒ Orionis open cluster. Astronomy and Astrophysics, 2009, 506, 1169-1182. | 5.1 | 58 |
| 30 | The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2019, 627, A161. | 5.1 | 58 |
| 31 | Multiple water band detections in the CARMENES near-infrared transmission spectrum of HD 189733 b. Astronomy and Astrophysics, 2019, 621, A74. | 5.1 | 57 |
| 32 | TheÏƒâ€‰Orionis substellar population. Astronomy and Astrophysics, 2003, 404, 171-185. | 5.1 | 55 |
| 33 | Photometric variability of young brown dwarfs in the $mathsf{sigma}$ Orionis open cluster. Astronomy and Astrophysics, 2004, 424, 857-872. | 5.1 | 55 |
| 34 | The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2018, 614, A122. | 5.1 | 51 |
| 35 | The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2020, 636, A36. | 5.1 | 51 |
| 36 | Optical Linear Polarization of Late M and L Type Dwarfs. Astrophysical Journal, 2005, 621, 445-460. | 4.5 | 51 |

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| 37 | Near-infrared low-resolution spectroscopy of Pleiades L-type brown dwarfs. Astronomy and Astrophysics, 2010, 519, A93. | 5.1 | 50 |
| 38 | Trigonometric parallaxes of young field L dwarfs. Astronomy and Astrophysics, 2014, 568, A6. | 5.1 | 49 |
| 39 | Pleiades low-mass brown dwarfs: the cluster L dwarf sequence. Astronomy and Astrophysics, 2006, 458, 805-816. | 5.1 | 49 |
| 40 | The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2018, 615, A14. | 5.1 | 48 |
| 41 | Multiplicity of very low-mass objects in the Upper Scorpius OBÂassociation: a possible wide binary population. Astronomy and Astrophysics, 2006, 451, 177-186. | 5.1 | 47 |
| 42 | CARMENES: Calar Alto high-resolution search for M dwarfs with exo-earths with a near-infrared Echelle spectrograph. Proceedings of SPIE, 2010, , . | 0.8 | 47 |
| 43 | The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2018, 609, L5. | 5.1 | 46 |
| 44 | Optical and Near-infrared Spectra of Ïƒ Orionis Isolated Planetary-mass Objects. Astrophysical Journal, 2017, 842, 65. | 4.5 | 45 |
| 45 | Water vapor detection in the transmission spectra of HD 209458 b with the CARMENES NIR channel. Astronomy and Astrophysics, 2019, 630, A53. | 5.1 | 45 |
| 46 | An L-Type Substellar Object in Orion: Reaching the Mass Boundary between Brown Dwarfs and Giant Planets. Astrophysical Journal, 1999, 524, L115-L118. | 4.5 | 44 |
| 47 | Multicolour photometry for exoplanet candidate validation. Astronomy and Astrophysics, 2019, 630, A89. | 5.1 | 41 |
| 48 | A nearby transiting rocky exoplanet that is suitable for atmospheric investigation. Science, 2021, 371, 1038-1041. | 12.6 | 41 |
| 49 | Discovery of a very cool object with extraordinarily strong H$mathsf{alpha}$ emission. Astronomy and Astrophysics, 2002, 393, L85-L88. | 5.1 | 41 |
| 50 | A search for substellar members in the Praesepe andÂ$mathsf{sigma}$ÂOrionisÂclusters. Astronomy and Astrophysics, 2006, 460, 799-810. | 5.1 | 40 |
| 51 | Rapid contraction of giant planets orbiting the 20-million-year-old star V1298 Tau. Nature Astronomy, 2022, 6, 232-240. | 10.1 | 40 |
| 52 | Diving Beneath the Sea of Stellar Activity: Chromatic Radial Velocities of the Young AU Mic Planetary System. Astronomical Journal, 2021, 162, 295. | 4.7 | 39 |
| 53 | The optical + infrared L dwarf spectral sequence of young planetary-mass objects in the Upper Scorpius association. Monthly Notices of the Royal Astronomical Society, 2018, 473, 2020-2059. | 4.4 | 38 |
| 54 | The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2018, 618, A115. | 5.1 | 37 |

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|---|---|---|---|
| 55 | CARMENES: high-resolution spectra and precise radial velocities in the red and infrared. , 2018, , . | | 37 |
| 56 | Activity at the Deuterium-burning Mass Limit in Orion. Astrophysical Journal, 2002, 569, L99-L102. | 4.5 | 36 |
| 57 | THE SUBSTELLAR POPULATION OF Ïƒ ORIONIS: A DEEP WIDE SURVEY. Astrophysical Journal, 2011, 743, 64. | 4.5 | 36 |
| 58 | Chemical abundances of late-type pre-main sequence stars in the ÏƒÂOrionis cluster. Astronomy and Astrophysics, 2008, 490, 1135-1142. | 5.1 | 34 |
| 59 | Photometric variability of a young, low-mass brown dwarf. Astronomy and Astrophysics, 2003, 408, 663-673. | 5.1 | 31 |
| 60 | Discs of planetary-mass objects in $mathsf{sigma}$ Orionis. Astronomy and Astrophysics, 2007, 472, L9-L12. | 5.1 | 30 |
| 61 | New constraints on the membership of the T dwarf S Ori 70 in theÏƒÂOrionisÂcluster. Astronomy and Astrophysics, 2008, 477, 895-900. | 5.1 | 30 |
| 62 | The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2018, 619, A32. | 5.1 | 29 |
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| 66 | A deep WISE search for very late type objects and the discovery of two halo/thick-disc T dwarfs: WISE 0013+0634 and WISE 0833+0052. Monthly Notices of the Royal Astronomical Society, 2014, 437, 1009-1026. | 4.4 | 27 |
| 67 | Discovery of a hot, transiting, Earth-sized planet and a second temperate, non-transiting planet around the M4 dwarf GJ 3473 (TOI-488). Astronomy and Astrophysics, 2020, 642, A236. | 5.1 | 27 |
| 68 | Sâ€‰OriÂJ053825.4-024241: a classical TÂTauri-like object at the substellar boundary. Astronomy and Astrophysics, 2006, 445, 143-153. | 5.1 | 26 |
| 69 | The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2018, 620, A171. | 5.1 | 26 |
| 70 | Search and characterization of T-type planetary mass candidates in theÏƒOrionis cluster. Astronomy and Astrophysics, 2011, 532, A42. | 5.1 | 25 |
| 71 | First TÂdwarfs in the VISTA Hemisphere Survey. Astronomy and Astrophysics, 2012, 548, A53. | 5.1 | 24 |
| 72 | Spectroscopy of Hyades L dwarf candidatesâ˜…. Monthly Notices of the Royal Astronomical Society, 2014, 445, 3908-3918. | 4.4 | 24 |

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| 73 | The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2020, 636, A119. | 5.1 | 24 |
| 74 | CLOUDS search for variability in brown dwarf atmospheres. Astronomy and Astrophysics, 2008, 487, 277-292. | 5.1 | 23 |
| 75 | Polarisation of very-low-mass stars and brown dwarfs. Astronomy and Astrophysics, 2009, 502, 929-936. | 5.1 | 23 |
| 76 | An eclipsing double-line spectroscopic binary at the stellar/substellar boundary in the Upper Scorpius OB association. Astronomy and Astrophysics, 2015, 584, A128. | 5.1 | 23 |
| 77 | INFRARED AND KINEMATIC PROPERTIES OF THE SUBSTELLAR OBJECT G 196-3 B. Astrophysical Journal, 2010, 715, 1408-1418. | 4.5 | 22 |
| 78 | TOI-1201 b: A mini-Neptune transiting a bright and moderately young M dwarf. Astronomy and Astrophysics, 2021, 656, A124. | 5.1 | 22 |
| 79 | Spectroscopic follow-up of L- and T-type proper-motion member candidates in the Pleiades. Astronomy and Astrophysics, 2014, 572, A67. | 5.1 | 20 |
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| 81 | High-contrast optical imaging of companions: the case of the brown dwarf binary HD 130948â€‰BC. Astronomy and Astrophysics, 2011, 526, A144. | 5.1 | 19 |
| 82 | Binary frequency of planet-host stars at wide separations. Astronomy and Astrophysics, 2014, 569, A120. | 5.1 | 19 |
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| 84 | Mass and density of the transiting hot and rocky super-Earth LHS 1478 b (TOI-1640 b). Astronomy and Astrophysics, 2021, 649, A144. | 5.1 | 19 |
| 85 | Lucky Imaging Adaptive Optics of the brown dwarf binary GJ569Babâ˜…. Monthly Notices of the Royal Astronomical Society, 2011, 413, 1524-1536. | 4.4 | 18 |
| 86 | Flare activity and photospheric analysis of Proxima Centauri. Astronomy and Astrophysics, 2017, 606, A49. | 5.1 | 18 |
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| 89 | The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2019, 622, A153. | 5.1 | 18 |
| 90 | Metallicities in M dwarfs: Investigating different determination techniques. Astronomy and Astrophysics, 2022, 658, A194. | 5.1 | 18 |

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| 92 | The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2020, 638, A16. | 5.1 | 16 |
| 93 | GTC OSIRISz-band imaging of Y dwarfs. Astronomy and Astrophysics, 2013, 550, L2. | 5.1 | 14 |
| 94 | Characterization of the known T-type dwarfs towards theÏƒOrionis cluster. Astronomy and Astrophysics, 2015, 574, A118. | 5.1 | 14 |
| 95 | The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2021, 654, A118. | 5.1 | 14 |
| 96 | Near-infrared photometry of WISE J085510.74â€“071442.5. Astronomy and Astrophysics, 2016, 592, A80. | 5.1 | 13 |
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| 99 | The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2020, 637, A93. | 5.1 | 12 |
| 100 | The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2022, 663, A48. | 5.1 | 12 |
| 101 | The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2019, 627, A116. | 5.1 | 11 |
| 102 | The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2021, 653, A49. | 5.1 | 11 |
| 103 | A Transiting, Temperate Mini-Neptune Orbiting the M Dwarf TOI-1759 Unveiled by TESS. Astronomical Journal, 2022, 163, 133. | 4.7 | 10 |
| 104 | 2MASSâ€‰J154043.42â€²510135.7: a new addition to the 5 pc population. Astronomy and Astrophysics, 2014, 567, A6. | 5.1 | 9 |
| 105 | The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2019, 623, A136. | 5.1 | 9 |
| 106 | Discovery and mass measurement of the hot, transiting, Earth-sized planet, GJ 3929 b. Astronomy and Astrophysics, 2022, 659, A17. | 5.1 | 9 |
| 107 | USco1621 B and USco1556 B: Two wide companions at the deuterium-burning mass limit in Upper Scorpius. Astronomy and Astrophysics, 2020, 633, A152. | 5.1 | 8 |
| 108 | Temporal changes of the flare activity of Proxima Centauri. Astronomy and Astrophysics, 2019, 626, A111. | 5.1 | 8 |

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| 109 | A low-mass triple system with a wide L/T transition brown dwarf component: NLTT 51469AB/SDSS 2131â"0119. Monthly Notices of the Royal Astronomical Society, 2019, 487, 1149-1159. | 4.4 | 7 |
| 110 | A multi-planetary system orbiting the early-M dwarf TOI-1238. Astronomy and Astrophysics, 2022, 658, A138. | 5.1 | 7 |
| 111 | Constraints on the substellar companions in wide orbits around the Barnard's Star from CanariCam mid-infrared imaging. Monthly Notices of the Royal Astronomical Society, 2015, 452, 1677-1683. | 4.4 | 6 |
| 112 | Confirming the least massive members of the Pleiades star cluster. Monthly Notices of the Royal Astronomical Society, 2018, 475, 139-153. | 4.4 | 6 |
| 113 | TOI-1749: an M dwarf with a Trio of Planets including a Near-resonant Pair. Astronomical Journal, 2021, 162, 167. | 4.7 | 6 |
| 114 | A new L dwarf member of the moderately metal poor triple system HD 221356. Monthly Notices of the Royal Astronomical Society, 2012, 427, 2457-2463. | 4.4 | 5 |
| 115 | Using binary statistics in Taurus-Auriga to distinguish between brown dwarf formation processes. Astronomy and Astrophysics, 2017, 605, A11. | 5.1 | 5 |
| 116 | A search for planetary-mass objects and brown dwarfs in the Upper Scorpius association. Astronomy and Astrophysics, 2005, 443, 1021-1024. | 5.1 | 3 |
| 117 | Radio emission in a nearby, ultra-cool dwarf binary: A multifrequency study. Astronomy and Astrophysics, 2022, 660, A65. | 5.1 | 3 |
| 118 | Status of the GTC adaptive optics: integration in laboratory. Proceedings of SPIE, 2016, , . | 0.8 | 2 |
| 119 | A young spectroscopic binary in a quintuple system part of the Local Association. Astronomy and Astrophysics, 0, , . | 5.1 | 2 |
| 120 | GTC/CanariCam Deep Mid-infrared Imaging Survey of Northern Stars within 5 pc. Astrophysical Journal, 2021, 923, 119. | 4.5 | 2 |
| 121 | Proper motion Pleiades candidate L-type brown dwarfs. Astronomische Nachrichten, 2005, 326, 1057-1058. | 1.2 | 1 |
| 122 | Discovery of a wide planetary-mass companion of a brown dwarf in the Upper Scorpius association. , 2009, , . | | 0 |
| 123 | Search for wide, ultracool companions of nearby T dwarfs. , 2009, , . | | 0 |
| 124 | A Young Planetary Mass Companion to the Nearby M Dwarf VHS J125601.92-125723.9. Proceedings of the International Astronomical Union, 2015, 10, 232-236. | 0.0 | 0 |
| 125 | Mid-IR characterization of substellar companions with CanariCam. EPJ Web of Conferences, 2015, 101, 06005. | 0.3 | 0 |
| 126 | The Least Massive (Sub)Stellar Component of the Milky Way. Thirty Years of Astronomical Discovery With UKIRT, 2010, , 155-162. | 0.3 | 0 |