

Carles Badenes

List of Publications by Year in descending order

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112
papers

9,775
citations

57631

44
h-index

34900

98
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113
all docs

113
docs citations

113
times ranked

8165
citing authors

#	ARTICLE	IF	CITATIONS
1	The Seventeenth Data Release of the Sloan Digital Sky Surveys: Complete Release of MaNGA, MaStar, and APOGEE-2 Data. <i>Astrophysical Journal, Supplement Series</i> , 2022, 259, 35.	3.0	405
2	Stellar multiplicity and stellar rotation: insights from APOGEE. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 512, 2051-2061.	1.6	9
3	Testing the Momentum-driven Supernova Feedback Paradigm in M31. <i>Astrophysical Journal</i> , 2022, 928, 54.	1.6	2
4	Stellar kinematics of dwarf galaxies from multi-epoch spectroscopy: application to Triangulum II. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 514, 1706-1719.	1.6	5
5	Multiplicity Statistics of Stars in the Sagittarius Dwarf Spheroidal Galaxy: Comparison to the Milky Way. <i>Astrophysical Journal Letters</i> , 2022, 933, L18.	3.0	1
6	Analysis of Previously Classified White Dwarf Main-sequence Binaries Using Data from the APOGEE Survey. <i>Astronomical Journal</i> , 2021, 161, 143.	1.9	2
7	The effects of asymmetric dark matter on stellar evolution I. Spin-dependent scattering. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 503, 5611-5623.	1.6	10
8	The RR Lyrae Delay-time Distribution: A Novel Perspective on Models of Old Stellar Populations. <i>Astrophysical Journal</i> , 2021, 912, 140.	1.6	3
9	A Grid of Core-collapse Supernova Remnant Models. I. The Effect of Wind-driven Mass Loss. <i>Astrophysical Journal</i> , 2021, 914, 41.	1.6	9
10	Close substellar-mass companions in stellar wide binaries: discovery and characterization with APOGEE and Gaia DR2. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 509, 3355-3370.	1.6	1
11	The delay time distribution of supernovae from integral-field spectroscopy of nearby galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 501, 3122-3136.	1.6	10
12	Double-lined Spectroscopic Binaries in the APOGEE DR16 and DR17 Data. <i>Astronomical Journal</i> , 2021, 162, 184.	1.9	40
13	A 99 minute Double-lined White Dwarf Binary from SDSS-V. <i>Astrophysical Journal</i> , 2021, 921, 160.	1.6	10
14	The close binary fraction as a function of stellar parameters in APOGEE: a strong anticorrelation with α abundances. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 1607-1626.	1.6	34
15	Response to Comment on "A noninteracting low-mass black hole-giant star binary system". <i>Science</i> , 2020, 368, .	6.0	13
16	Close Binary Companions to APOGEE DR16 Stars: 20,000 Binary-star Systems Across the Color-Magnitude Diagram. <i>Astrophysical Journal</i> , 2020, 895, 2.	1.6	74
17	A Nucleosynthetic Origin for the Southwestern Fe-rich Structure in Kepler's Supernova Remnant. <i>Astrophysical Journal</i> , 2020, 890, 104.	1.6	16
18	An Ejecta Kinematics Study of Kepler's Supernova Remnant with High-resolution Chandra HETG Spectroscopy. <i>Astrophysical Journal</i> , 2020, 893, 98.	1.6	8

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19	The 16th Data Release of the Sloan Digital Sky Surveys: First Release from the APOGEE-2 Southern Survey and Full Release of eBOSS Spectra. <i>Astrophysical Journal, Supplement Series</i> , 2020, 249, 3.	3.0	826
20	Geometry of the Draco C1 Symbiotic Binary. <i>Astrophysical Journal Letters</i> , 2020, 900, L43.	3.0	7
21	White Dwarfs in Close Binaries: A Systematic Search for Mass-transfer Systems and Supernova Ia Progenitors in the APOGEE Survey. <i>Research Notes of the AAS</i> , 2020, 4, 127.	0.3	6
22	A noninteracting low-mass black hole–giant star binary system. <i>Science</i> , 2019, 366, 637-640.	6.0	182
23	Measurement of the Core-collapse Progenitor Mass Distribution of the Small Magellanic Cloud. <i>Astrophysical Journal</i> , 2019, 871, 64.	1.6	22
24	The Time-domain Spectroscopic Survey: Radial Velocity Variability in Dwarf Carbon Stars. <i>Astrophysical Journal</i> , 2019, 877, 44.	1.6	8
25	Close Companions around Young Stars. <i>Astronomical Journal</i> , 2019, 157, 196.	1.9	81
26	The Close Binary Fraction of Solar-type Stars Is Strongly Anticorrelated with Metallicity. <i>Astrophysical Journal</i> , 2019, 875, 61.	1.6	140
27	The Fifteenth Data Release of the Sloan Digital Sky Surveys: First Release of MaNGA-derived Quantities, Data Visualization Tools, and Stellar Library. <i>Astrophysical Journal, Supplement Series</i> , 2019, 240, 23.	3.0	299
28	SNR-calibrated Type Ia supernova models. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 482, 4346-4363.	1.6	29
29	The Two Most Recent Thermonuclear Supernovae in the Local Group: Radio Constraints on their Progenitors and Evolution. <i>Astrophysical Journal</i> , 2019, 872, 191.	1.6	6
30	Deep Chandra Survey of the Small Magellanic Cloud. III. Formation Efficiency of High-mass X-Ray Binaries. <i>Astrophysical Journal</i> , 2019, 887, 20.	1.6	22
31	The Time-domain Spectroscopic Survey: Target Selection for Repeat Spectroscopy. <i>Astronomical Journal</i> , 2018, 155, 6.	1.9	20
32	PISCO: The PMAS/PPak Integral-field Supernova Hosts Compilation. <i>Astrophysical Journal</i> , 2018, 855, 107.	1.6	81
33	Stellar Multiplicity Meets Stellar Evolution and Metallicity: The APOGEE View. <i>Astrophysical Journal</i> , 2018, 854, 147.	1.6	100
34	Forty-four New and Known M-dwarf Multiples in the SDSS-III/APOGEE M-dwarf Ancillary Science Sample. <i>Astronomical Journal</i> , 2018, 156, 45.	1.9	8
35	Different generations of HMXBs: clues about their formation efficiency from Magellanic Clouds studies. <i>Proceedings of the International Astronomical Union</i> , 2018, 14, 316-321.	0.0	0
36	Chandrasekhar and Sub-Chandrasekhar Models for the X-Ray Emission of Type Ia Supernova Remnants. I. Bulk Properties. <i>Astrophysical Journal</i> , 2018, 865, 151.	1.6	17

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37	Three Hypervelocity White Dwarfs in Gaia DR2: Evidence for Dynamically Driven Double-degenerate Double-detonation Type Ia Supernovae. <i>Astrophysical Journal</i> , 2018, 865, 15.	1.6	145
38	Balmer-dominated Shocks Exclude Hot Progenitors for Many Type Ia Supernovae. <i>Astrophysical Journal</i> , 2018, 863, 120.	1.6	19
39	The separation distribution and merger rate of double white dwarfs: improved constraints. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 2584-2590.	1.6	59
40	Evidence for a Sub-Chandrasekhar-mass Type Ia Supernova in the Ursa Minor Dwarf Galaxy. <i>Astrophysical Journal</i> , 2018, 857, 97.	1.6	28
41	The Fourteenth Data Release of the Sloan Digital Sky Survey: First Spectroscopic Data from the Extended Baryon Oscillation Spectroscopic Survey and from the Second Phase of the Apache Point Observatory Galactic Evolution Experiment. <i>Astrophysical Journal, Supplement Series</i> , 2018, 235, 42.	3.0	796
42	Supernova remnants in the Local Group – I. A model for the radio luminosity function and visibility times of supernova remnants. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 464, 2326-2340.	1.6	43
43	No hot and luminous progenitor for Tycho’s supernova. <i>Nature Astronomy</i> , 2017, 1, 800-804.	4.2	31
44	THE ORIGIN OF THE IRON-RICH KNOT IN TYCHO’S SUPERNOVA REMNANT. <i>Astrophysical Journal</i> , 2017, 834, 124.	1.6	28
45	The 13th Data Release of the Sloan Digital Sky Survey: First Spectroscopic Data from the SDSS-IV Survey Mapping Nearby Galaxies at Apache Point Observatory. <i>Astrophysical Journal, Supplement Series</i> , 2017, 233, 25.	3.0	406
46	Sloan Digital Sky Survey IV: Mapping the Milky Way, Nearby Galaxies, and the Distant Universe. <i>Astronomical Journal</i> , 2017, 154, 28.	1.9	1,100
47	Observational Evidence for High Neutronization in Supernova Remnants: Implications for Type Ia Supernova Progenitors. <i>Astrophysical Journal</i> , 2017, 843, 35.	1.6	33
48	Molecular gas in supernova local environments unveiled by EDGE. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 468, 628-644.	1.6	21
49	Supernova Remnants as Clues to Their Progenitors. , 2017, , 2233-2249.		6
50	Exploring the Carbon Simmering Phase: Reaction Rates, Mixing, and the Convective Urca Process. <i>Astrophysical Journal</i> , 2017, 851, 105.	1.6	14
51	The Impact of Progenitor Mass Loss on the Dynamical and Spectral Evolution of Supernova Remnants. <i>Astrophysical Journal</i> , 2017, 849, 109.	1.6	18
52	White dwarf dynamical interactions and fast optical transients. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 468, 4815-4821.	1.6	9
53	Supernova Remnants as Clues to Their Progenitors. , 2017, , 1-17.		1
54	THE TIME-DOMAIN SPECTROSCOPIC SURVEY: UNDERSTANDING THE OPTICALLY VARIABLE SKY WITH SEQUELS IN SDSS-III. <i>Astrophysical Journal</i> , 2016, 825, 137.	1.6	18

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55	TYPE II SUPERNOVA ENERGETICS AND COMPARISON OF LIGHT CURVES TO SHOCK-COOLING MODELS. <i>Astrophysical Journal</i> , 2016, 820, 33.	1.6	75
56	A DEEP SEARCH FOR PROMPT RADIO EMISSION FROM THERMONUCLEAR SUPERNOVAE WITH THE VERY LARGE ARRAY. <i>Astrophysical Journal</i> , 2016, 821, 119.	1.6	95
57	NEUTRONIZATION DURING CARBON SIMMERING IN TYPE IA SUPERNOVA PROGENITORS. <i>Astrophysical Journal</i> , 2016, 825, 57.	1.6	28
58	Indirect probes of dark matter and globular cluster properties from dark matter annihilation within the coolest white dwarfs. <i>Physical Review D</i> , 2015, 91, .	1.6	17
59	THE PROGENITORS AND LIFETIMES OF PLANETARY NEBULAE. <i>Astrophysical Journal Letters</i> , 2015, 804, L25.	3.0	21
60	STATISTICAL TIME-RESOLVED SPECTROSCOPY: A HIGHER FRACTION OF SHORT-PERIOD BINARIES FOR METAL-RICH F-TYPE DWARFS IN SDSS. <i>Astrophysical Journal Letters</i> , 2015, 806, L2.	3.0	17
61	A double white dwarf with a paradoxical origin?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 450, 3966-3974.	1.6	19
62	A CHANDRASEKHAR MASS PROGENITOR FOR THE TYPE Ia SUPERNOVA REMNANT 3C 397 FROM THE ENHANCED ABUNDANCES OF NICKEL AND MANGANESE. <i>Astrophysical Journal Letters</i> , 2015, 801, L31.	3.0	103
63	ARE MODELS FOR CORE-COLLAPSE SUPERNOVA PROGENITORS CONSISTENT WITH THE PROPERTIES OF SUPERNOVA REMNANTS?. <i>Astrophysical Journal</i> , 2015, 803, 101.	1.6	38
64	THE TIME DOMAIN SPECTROSCOPIC SURVEY: VARIABLE SELECTION AND ANTICIPATED RESULTS. <i>Astrophysical Journal</i> , 2015, 806, 244.	1.6	49
65	OVERVIEW OF THE SDSS-IV MaNGA SURVEY: MAPPING NEARBY GALAXIES AT APACHE POINT OBSERVATORY. <i>Astrophysical Journal</i> , 2015, 798, 7.	1.6	1,119
66	DISCRIMINATING THE PROGENITOR TYPE OF SUPERNOVA REMNANTS WITH IRON K-SHELL EMISSION. <i>Astrophysical Journal Letters</i> , 2014, 785, L27.	3.0	128
67	ASYMMETRY IN THE OBSERVED METAL-RICH EJECTA OF THE GALACTIC TYPE IA SUPERNOVA REMNANT G299.2â€“2.9. <i>Astrophysical Journal Letters</i> , 2014, 792, L20.	3.0	10
68	IDENTIFICATION OF A JET-DRIVEN SUPERNOVA REMNANT IN THE SMALL MAGELLANIC CLOUD: POSSIBLE EVIDENCE FOR THE ENHANCEMENT OF BIPOLAR EXPLOSIONS AT LOW METALLICITY. <i>Astrophysical Journal</i> , 2014, 788, 5.	1.6	17
69	NEW EVIDENCE FOR EFFICIENT COLLISIONLESS HEATING OF ELECTRONS AT THE REVERSE SHOCK OF A YOUNG SUPERNOVA REMNANT. <i>Astrophysical Journal</i> , 2014, 780, 136.	1.6	53
70	A SUPER-SOLAR METALLICITY FOR THE PROGENITOR OF KEPLER'S SUPERNOVA. <i>Astrophysical Journal Letters</i> , 2013, 767, L10.	3.0	37
71	SDSS 1355+0856: a detached white dwarf+ M star binary in the period gap discovered by the SWARMS surveyâ€”.... <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 429, 3596-3603.	1.6	5
72	Variability of broad emission lines in high-luminosity, high-redshift quasars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 434, 1411-1421.	1.6	5

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73	SEARCH FOR SUPERMASSIVE BLACK HOLE BINARIES IN THE SLOAN DIGITAL SKY SURVEY SPECTROSCOPIC SAMPLE. <i>Astrophysical Journal</i> , 2013, 777, 44.	1.6	68
74	Progenitor metallicity of Kepler's supernova. , 2012, , .		2
75	THE MERGER RATE OF BINARY WHITE DWARFS IN THE GALACTIC DISK. <i>Astrophysical Journal Letters</i> , 2012, 749, L11.	3.0	112
76	THE ORIGIN OF KEPLER'S SUPERNOVA REMNANT. <i>Astrophysical Journal</i> , 2012, 756, 6.	1.6	58
77	CHARACTERIZING THE GALACTIC WHITE DWARF BINARY POPULATION WITH SPARSELY SAMPLED RADIAL VELOCITY DATA. <i>Astrophysical Journal</i> , 2012, 751, 143.	1.6	31
78	EVLA OBSERVATIONS CONSTRAIN THE ENVIRONMENT AND PROGENITOR SYSTEM OF Type Ia SUPERNOVA 2011fe. <i>Astrophysical Journal</i> , 2012, 750, 164.	1.6	154
79	Time-Resolved Spectroscopy with SDSS. <i>Proceedings of the International Astronomical Union</i> , 2011, 7, 289-290.	0.0	0
80	USING THE X-RAY MORPHOLOGY OF YOUNG SUPERNOVA REMNANTS TO CONSTRAIN EXPLOSION TYPE, EJECTA DISTRIBUTION, AND CHEMICAL MIXING. <i>Astrophysical Journal</i> , 2011, 732, 114.	1.6	124
81	AN EMERGING CLASS OF BRIGHT, FAST-EVOLVING SUPERNOVAE WITH LOW-MASS EJECTA. <i>Astrophysical Journal</i> , 2011, 730, 89.	1.6	38
82	EVIDENCE FOR PARTICLE ACCELERATION TO THE KNEE OF THE COSMIC RAY SPECTRUM IN <i>TYCHO</i> â€™S SUPERNOVA REMNANT. <i>Astrophysical Journal Letters</i> , 2011, 728, L28.	3.0	86
83	Is the metallicity of their host galaxies a good measure of the metallicity of Type Ia supernovae?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 414, 1592-1606.	1.6	11
84	DIRECT CONFIRMATION OF THE ASYMMETRY OF THE CAS A SUPERNOVA WITH LIGHT ECHOES. <i>Astrophysical Journal</i> , 2011, 732, 3.	1.6	90
85	METALLICITY AS A SOURCE OF DISPERSION IN THE SNIa BOLOMETRIC LIGHT CURVE LUMINOSITY-WIDTH RELATIONSHIP. <i>Astrophysical Journal Letters</i> , 2010, 711, L66-L70.	3.0	56
86	The supernova rate and delay time distribution in the Magellanic Clouds. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 407, 1314-1327.	1.6	102
87	On the size distribution of supernova remnants in the Magellanic Clouds. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 407, 1301-1313.	1.6	81
88	X-ray studies of supernova remnants: A different view of supernova explosions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 7141-7146.	3.3	21
89	TWINS: THE TWO SHORTEST PERIOD NON-INTERACTING DOUBLE DEGENERATE WHITE DWARF STARS. <i>Astrophysical Journal</i> , 2009, 707, L51-L55.	1.6	38
90	FIRST RESULTS FROM THE SWARMS SURVEY. SDSS 1257+5428: A NEARBY, MASSIVE WHITE DWARF BINARY WITH A LIKELY NEUTRON STAR OR BLACK HOLE COMPANION. <i>Astrophysical Journal</i> , 2009, 707, 971-978.	1.6	53

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91	THE STELLAR ANCESTRY OF SUPERNOVAE IN THE MAGELLANIC CLOUDS. I. THE MOST RECENT SUPERNOVAE IN THE LARGE MAGELLANIC CLOUD. <i>Astrophysical Journal</i> , 2009, 700, 727-740.	1.6	82
92	TYPING SUPERNOVA REMNANTS USING X-RAY LINE EMISSION MORPHOLOGIES. <i>Astrophysical Journal</i> , 2009, 706, L106-L109.	1.6	74
93	The End of Amnesia: Measuring the Metallicities of Type Ia SN Progenitors with Manganese Lines in Supernova Remnants. , 2009, , .		1
94	Star Formation Around the Youngest Supernova Remnants in the Large Magellanic Cloud: Implications for Type Ia Supernova Progenitors. , 2009, , .		0
95	The End of Amnesia: A New Method for Measuring the Metallicity of Type Ia Supernova Progenitors Using Manganese Lines in Supernova Remnants. <i>Astrophysical Journal</i> , 2008, 680, L33-L36.	1.6	64
96	Morphological Evidence for Azimuthal Variations of the Cosmicâ€Ray Ion Acceleration at the Blast Wave of SN 1006. <i>Astrophysical Journal</i> , 2008, 680, 1180-1197.	1.6	99
97	The Persistence of Memory, or How the Xâ€Ray Spectrum of SNR 0509âˆ7.5 Reveals the Brightness of Its Parent Type Ia Supernova. <i>Astrophysical Journal</i> , 2008, 680, 1149-1157.	1.6	72
98	A Deep <i>Chandra</i> Observation of Kepler's Supernova Remnant: A Type Ia Event with Circumstellar Interaction. <i>Astrophysical Journal</i> , 2007, 668, L135-L138.	1.6	116
99	Are the Models for Type Ia Supernova Progenitors Consistent with the Properties of Supernova Remnants?. <i>Astrophysical Journal</i> , 2007, 662, 472-486.	1.6	135
100	Constraints on the Physics of Type Ia Supernovae from the Xâ€Ray Spectrum of the Tycho Supernova Remnant. <i>Astrophysical Journal</i> , 2006, 645, 1373-1391.	1.6	196
101	Can Ejectaâ€dominated Supernova Remnants be Typed from Their Xâ€Ray Spectra? The Case of G337.2âˆ0.7. <i>Astrophysical Journal</i> , 2006, 646, 982-1000.	1.6	37
102	Cosmicâ€Ray Acceleration at the Forward Shock in Tychoâ€™s Supernova Remnant: Evidence from <i>Chandra</i> Xâ€Ray Observations. <i>Astrophysical Journal</i> , 2005, 634, 376-389.	1.6	267
103	Thermal Xâ€Ray Emission from Shocked Ejecta in Type Ia Supernova Remnants. II. Parameters Affecting the Spectrum. <i>Astrophysical Journal</i> , 2005, 624, 198-212.	1.6	55
104	A model grid for the spectral analysis of X-ray emission in young Type Ia supernova remnants. <i>Advances in Space Research</i> , 2005, 35, 987-990.	1.2	5
105	Thermonuclear Supernova Explosions and Their Remnants: The Case of Tycho. <i>International Astronomical Union Colloquium</i> , 2005, 192, 233-238.	0.1	0
106	Thermonuclear Supernova Explosions and Their Remnants: The Case of Tycho. , 2005, , 233-238.		0
107	Thermal Xâ€Ray Emission from Young Type Ia Supernova Remnants. <i>Publications of the Astronomical Society of the Pacific</i> , 2005, 117, 654-654.	1.0	0
108	A Million Second <i>Chandra</i> View of Cassiopeia A. <i>Astrophysical Journal</i> , 2004, 615, L117-L120.	1.6	216

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109	Design and flight performance of a crystal diffraction telescope. , 2003, 4851, 895.		4
110	Thermal X-ray Emission from Shocked Ejecta in Type Ia Supernova Remnants: Prospects for Explosion Mechanism Identification. Astrophysical Journal, 2003, 593, 358-369.	1.6	101
111	The Imprint of Presupernova Evolution on Supernova Remnants. Astrophysical Journal, 2001, 556, L41-L45.	1.6	5
112	Prospects for SNIa Explosion Mechanism Identification Through SNRs. , 0, , 264-267.		1