

# Stéphane Blondin

## List of Publications by Year in descending order

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54  
papers

6,698  
citations

87723

38  
h-index

168136

53  
g-index

55  
all docs

55  
docs citations

55  
times ranked

3602  
citing authors

#	ARTICLE	IF	CITATIONS
1	IMPROVED DARK ENERGY CONSTRAINTS FROM $\sim 100$ NEW CfA SUPERNOVA TYPE Ia LIGHT CURVES. <i>Astrophysical Journal</i> , 2009, 700, 1097-1140.	1.6	747
2	Observational Constraints on the Nature of Dark Energy: First Cosmological Results from the ESSENCE Supernova Survey. <i>Astrophysical Journal</i> , 2007, 666, 694-715.	1.6	742
3	Scrutinizing Exotic Cosmological Models Using ESSENCE Supernova Data Combined with Other Cosmological Probes. <i>Astrophysical Journal</i> , 2007, 666, 716-725.	1.6	497
4	CfA3: 185 TYPE Ia SUPERNOVA LIGHT CURVES FROM THE CfA. <i>Astrophysical Journal</i> , 2009, 700, 331-357.	1.6	388
5	Twenty-three High-Redshift Supernovae from the Institute for Astronomy Deep Survey: Doubling the Supernova Sample at $z > 0.7$ . <i>Astrophysical Journal</i> , 2004, 602, 571-594.	1.6	387
6	Determining the Type, Redshift, and Age of a Supernova Spectrum. <i>Astrophysical Journal</i> , 2007, 666, 1024-1047.	1.6	360
7	The ESSENCE Supernova Survey: Survey Optimization, Observations, and Supernova Photometry. <i>Astrophysical Journal</i> , 2007, 666, 674-693.	1.6	289
8	THE SPECTROSCOPIC DIVERSITY OF TYPE Ia SUPERNOVAE. <i>Astronomical Journal</i> , 2012, 143, 126.	1.9	238
9	FROM SHOCK BREAKOUT TO PEAK AND BEYOND: EXTENSIVE PANCHROMATIC OBSERVATIONS OF THE TYPE Ib SUPERNOVA 2008D ASSOCIATED WITH <i>SWIFT</i> X-RAY TRANSIENT 080109. <i>Astrophysical Journal</i> , 2009, 702, 226-248.	1.6	216
10	The Luminous and Carbon-rich Supernova 2006gz: A Double Degenerate Merger?. <i>Astrophysical Journal</i> , 2007, 669, L17-L20.	1.6	213
11	Early-Time Photometry and Spectroscopy of the Fast Evolving SN 2006aj Associated with GRB 060218. <i>Astrophysical Journal</i> , 2006, 645, L21-L24.	1.6	171
12	OPTICAL SPECTRA OF 73 STRIPPED-ENVELOPE CORE-COLLAPSE SUPERNOVAE. <i>Astronomical Journal</i> , 2014, 147, 99.	1.9	152
13	Type Ia Supernovae Are Good Standard Candles in the Near Infrared: Evidence from PAIRITEL. <i>Astrophysical Journal</i> , 2008, 689, 377-390.	1.6	141
14	VARIABLE SODIUM ABSORPTION IN A LOW-EXTINCTION TYPE Ia SUPERNOVA,. <i>Astrophysical Journal</i> , 2009, 702, 1157-1170.	1.6	139
15	A SECOND CASE OF VARIABLE Na I D LINES IN A HIGHLY REDDENED TYPE Ia SUPERNOVA. <i>Astrophysical Journal</i> , 2009, 693, 207-215.	1.6	125
16	Using Quantitative Spectroscopic Analysis to Determine the Properties and Distances of Type II Plateau Supernovae: SN 2005cs and SN 2006bp. <i>Astrophysical Journal</i> , 2008, 675, 644-669.	1.6	118
17	OPTICAL SPECTROSCOPY OF TYPE Ia SUPERNOVAE. <i>Astronomical Journal</i> , 2008, 135, 1598-1615.	1.9	116
18	Spectral Identification of an Ancient Supernova Using Light Echoes in the Large Magellanic Cloud. <i>Astrophysical Journal</i> , 2008, 680, 1137-1148.	1.6	99

#	ARTICLE	IF	CITATIONS
19	One-dimensional delayed-detonation models of Type Ia supernovae: confrontation to observations at bolometric maximum. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 429, 2127-2142.	1.6	99
20	Double-Peaked Oxygen Lines Are Not Rare in Nebular Spectra of Core-Collapse Supernovae. <i>Astrophysical Journal</i> , 2008, 687, L9-L12.	1.6	98
21	DIRECT CONFIRMATION OF THE ASYMMETRY OF THE CAS A SUPERNOVA WITH LIGHT ECHOES. <i>Astrophysical Journal</i> , 2011, 732, 3.	1.6	90
22	Using Line Profiles to Test the Fraternity of Type Ia Supernovae at High and Low Redshifts. <i>Astronomical Journal</i> , 2006, 131, 1648-1666.	1.9	87
23	Constraints on the explosion mechanism and progenitors of Type Ia supernovae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 441, 532-550.	1.6	79
24	Evidence for sub-Chandrasekhar-mass progenitors of Type Ia supernovae at the faint end of the width-luminosity relation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 470, 157-165.	1.6	75
25	Properties of the ultraviolet flux of Type Ia supernovae: an analysis with synthetic spectra of SN 2001ep and SN 2001eh. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 391, 1605-1618.	1.6	68
26	Do spectra improve distance measurements of Type Ia supernovae?. <i>Astronomy and Astrophysics</i> , 2011, 526, A81.	2.1	61
27	Spectroscopy of High-Redshift Supernovae from the ESSENCE Project: The First 2 Years. <i>Astronomical Journal</i> , 2005, 129, 2352-2375.	1.9	58
28	Constraining Cosmic Evolution of Type Ia Supernovae. <i>Astrophysical Journal</i> , 2008, 684, 68-87.	1.6	58
29	Time Dilation in Type Ia Supernova Spectra at High Redshift. <i>Astrophysical Journal</i> , 2008, 682, 724-736.	1.6	55
30	Confronting 2D delayed-detonation models with light curves and spectra of Type Ia supernovae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 417, 1280-1302.	1.6	54
31	Critical ingredients of Type Ia supernova radiative-transfer modelling. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 441, 3249-3270.	1.6	51
32	Toward More Precise Survey Photometry for PanSTARRS and LSST: Measuring Directly the Optical Transmission Spectrum of the Atmosphere. <i>Publications of the Astronomical Society of the Pacific</i> , 2007, 119, 1163-1178.	1.0	49
33	Light Curves of Type Ia Supernovae from Near the Time of Explosion. <i>Astronomical Journal</i> , 2007, 133, 403-419.	1.9	48
34	Non-local Thermodynamic Equilibrium Radiative Transfer Simulations of Sub-Chandrasekhar-mass White Dwarf Detonations. <i>Astrophysical Journal Letters</i> , 2021, 909, L18.	3.0	43
35	Early Ultraviolet, Optical, and X-Ray Observations of the Type IIP SN 2005cs in M51 with Swift. <i>Astrophysical Journal</i> , 2007, 659, 1488-1495.	1.6	43
36	SPECTROSCOPY OF HIGH-REDSHIFT SUPERNOVAE FROM THE ESSENCE PROJECT: THE FIRST FOUR YEARS. <i>Astronomical Journal</i> , 2009, 137, 3731-3742.	1.9	39

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37	A one-dimensional Chandrasekhar-mass delayed-detonation model for the broad-lined Type Ia supernova 2002bo. Monthly Notices of the Royal Astronomical Society, 2015, 448, 2766-2797.	1.6	39
38	Hubble Space Telescope Observations of Nine High-Redshift ESSENCE Supernovae. Astronomical Journal, 2005, 130, 2453-2472.	1.9	38
39	Evidence for a Chandrasekhar-mass explosion in the Ca-strong 1991bg-like type Ia supernova 2016hbk. Astronomy and Astrophysics, 2019, 630, A76.	2.1	35
40	PRECISION DETERMINATION OF ATMOSPHERIC EXTINCTION AT OPTICAL AND NEAR-INFRARED WAVELENGTHS. Astrophysical Journal, 2010, 720, 811-823.	1.6	33
41	Sub-Chandrasekhar progenitors favoured for type Ia supernovae: Evidence from late-time spectroscopy. Monthly Notices of the Royal Astronomical Society, 0, .	1.6	33
42	Type II Supernova Light Curves and Spectra from the CfA. Astrophysical Journal, Supplement Series, 2017, 233, 6.	3.0	29
43	Two classes of fast-declining Type Ia supernovae. Astronomy and Astrophysics, 2017, 602, A118.	2.1	28
44	The detonation of a sub-Chandrasekhar-mass white dwarf at the origin of the low-luminosity Type Ia supernova 1999by. Monthly Notices of the Royal Astronomical Society, 2018, 474, 3931-3953.	1.6	28
45	Extracting clean supernova spectra. Astronomy and Astrophysics, 2005, 431, 757-771.	2.1	26
46	[Co III] versus Na I D in Type Ia supernova spectra. Monthly Notices of the Royal Astronomical Society, 2014, 439, 3114-3120.	1.6	25
47	LIGHT CURVES OF 213 TYPE Ia SUPERNOVAE FROM THE ESSENCE SURVEY. Astrophysical Journal, Supplement Series, 2016, 224, 3.	3.0	20
48	ON THE INTERPRETATION OF SUPERNOVA LIGHT ECHO PROFILES AND SPECTRA. Astrophysical Journal, 2011, 732, 2.	1.6	18
49	Stable nickel production in type Ia supernovae: A smoking gun for the progenitor mass?. Astronomy and Astrophysics, 2022, 660, A96.	2.1	16
50	Exploring the Outer Solar System with the ESSENCE Supernova Survey. Astrophysical Journal, 2008, 682, L53-L56.	1.6	13
51	Progenitor, environment, and modelling of the interacting transient AT2016jbu (Gaia16cfr). Monthly Notices of the Royal Astronomical Society, 2022, 513, 5666-5685.	1.6	10
52	Photometric and spectroscopic evolution of the interacting transient AT2016jbu (Gaia16cfr). Monthly Notices of the Royal Astronomical Society, 2022, 513, 5642-5665.	1.6	10
53	Evidence for dark energy from Type Ia supernovae. Nuclear Physics, Section B, Proceedings Supplements, 2005, 138, 10-15.	0.5	2
54	Could SNAD160 be a Pair-instability Supernova?. Research Notes of the AAS, 2022, 6, 122.	0.3	0