

# 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	Stable nickel production in type Ia supernovae: A smoking gun for the progenitor mass?. <i>Astronomy and Astrophysics</i> , 2022, 660, A96.	2.1	16
2	Progenitor, environment, and modelling of the interacting transient AT2016jbu (Gaia16cfr). <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 513, 5666-5685.	1.6	10
3	Photometric and spectroscopic evolution of the interacting transient AT2016jbu(Gaia16cfr). <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 513, 5642-5665.	1.6	10
4	Could SNAD160 be a Pair-instability Supernova?. <i>Research Notes of the AAS</i> , 2022, 6, 122.	0.3	0
5	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
6	Evidence for a Chandrasekhar-mass explosion in the Ca-strong 1991bg-like type Ia supernova 2016hmk. <i>Astronomy and Astrophysics</i> , 2019, 630, A76.	2.1	35
7	The detonation of a sub-Chandrasekhar-mass white dwarf at the origin of the low-luminosity Type Ia supernova 1999by. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 474, 3931-3953.	1.6	28
8	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
9	Type II Supernova Light Curves and Spectra from the CfA. <i>Astrophysical Journal, Supplement Series</i> , 2017, 233, 6.	3.0	29
10	Two classes of fast-declining Type Ia supernovae. <i>Astronomy and Astrophysics</i> , 2017, 602, A118.	2.1	28
11	LIGHT CURVES OF 213 TYPE Ia SUPERNOVAE FROM THE ESSENCE SURVEY. <i>Astrophysical Journal, Supplement Series</i> , 2016, 224, 3.	3.0	20
12	A one-dimensional Chandrasekhar-mass delayed-detonation model for the broad-lined Type Ia supernova 2002bo. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 448, 2766-2797.	1.6	39
13	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
14	OPTICAL SPECTRA OF 73 STRIPPED-ENVELOPE CORE-COLLAPSE SUPERNOVAE. <i>Astronomical Journal</i> , 2014, 147, 99.	1.9	152
15	[Co III] versus Na I D in Type Ia supernova spectra. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 439, 3114-3120.	1.6	25
16	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
17	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
18	THE SPECTROSCOPIC DIVERSITY OF TYPE Ia SUPERNOVAE. <i>Astronomical Journal</i> , 2012, 143, 126.	1.9	238

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19	Do spectra improve distance measurements of Type Ia supernovae?. <i>Astronomy and Astrophysics</i> , 2011, 526, A81.	2.1	61
20	ON THE INTERPRETATION OF SUPERNOVA LIGHT ECHO PROFILES AND SPECTRA. <i>Astrophysical Journal</i> , 2011, 732, 2.	1.6	18
21	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
22	DIRECT CONFIRMATION OF THE ASYMMETRY OF THE CAS A SUPERNOVA WITH LIGHT ECHOES. <i>Astrophysical Journal</i> , 2011, 732, 3.	1.6	90
23	PRECISION DETERMINATION OF ATMOSPHERIC EXTINCTION AT OPTICAL AND NEAR-INFRARED WAVELENGTHS. <i>Astrophysical Journal</i> , 2010, 720, 811-823.	1.6	33
24	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
25	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
26	VARIABLE SODIUM ABSORPTION IN A LOW-EXTINCTION TYPE Ia SUPERNOVA,. <i>Astrophysical Journal</i> , 2009, 702, 1157-1170.	1.6	139
27	CfA3: 185 TYPE Ia SUPERNOVA LIGHT CURVES FROM THE CfA. <i>Astrophysical Journal</i> , 2009, 700, 331-357.	1.6	388
28	SPECTROSCOPY OF HIGH-REDSHIFT SUPERNOVAE FROM THE ESSENCE PROJECT: THE FIRST FOUR YEARS. <i>Astronomical Journal</i> , 2009, 137, 3731-3742.	1.9	39
29	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
30	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
31	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
32	Time Dilation in Type Ia Supernova Spectra at High Redshift. <i>Astrophysical Journal</i> , 2008, 682, 724-736.	1.6	55
33	Constraining Cosmic Evolution of Type Ia Supernovae. <i>Astrophysical Journal</i> , 2008, 684, 68-87.	1.6	58
34	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
35	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
36	OPTICAL SPECTROSCOPY OF TYPE Ia SUPERNOVAE. <i>Astronomical Journal</i> , 2008, 135, 1598-1615.	1.9	116

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37	Exploring the Outer Solar System with the ESSENCE Supernova Survey. <i>Astrophysical Journal</i> , 2008, 682, L53-L56.	1.6	13
38	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
39	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
40	The ESSENCE Supernova Survey: Survey Optimization, Observations, and Supernova Photometry. <i>Astrophysical Journal</i> , 2007, 666, 674-693.	1.6	289
41	Scrutinizing Exotic Cosmological Models Using ESSENCE Supernova Data Combined with Other Cosmological Probes. <i>Astrophysical Journal</i> , 2007, 666, 716-725.	1.6	497
42	Light Curves of Type Ia Supernovae from Near the Time of Explosion. <i>Astronomical Journal</i> , 2007, 133, 403-419.	1.9	48
43	Determining the Type, Redshift, and Age of a Supernova Spectrum. <i>Astrophysical Journal</i> , 2007, 666, 1024-1047.	1.6	360
44	The Luminous and Carbon-rich Supernova 2006gz: A Double Degenerate Merger?. <i>Astrophysical Journal</i> , 2007, 669, L17-L20.	1.6	213
45	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
46	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
47	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
48	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
49	Spectroscopy of High-Redshift Supernovae from the ESSENCE Project: The First 2 Years. <i>Astronomical Journal</i> , 2005, 129, 2352-2375.	1.9	58
50	Hubble Space Telescope Observations of Nine High-Redshift ESSENCE Supernovae. <i>Astronomical Journal</i> , 2005, 130, 2453-2472.	1.9	38
51	Evidence for dark energy from Type Ia supernovae. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2005, 138, 10-15.	0.5	2
52	Extracting clean supernova spectra. <i>Astronomy and Astrophysics</i> , 2005, 431, 757-771.	2.1	26
53	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
54	Sub-Chandrasekhar progenitors favoured for type Ia supernovae: Evidence from late-time spectroscopy..... <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	1.6	33