

Stphane Blondin

List of Publications by Citations

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50
papers

5,938
citations

37
h-index

55
g-index

55
ext. papers

6,297
ext. citations

4.8
avg, IF

4.99
L-index

#	Paper	IF	Citations
50	IMPROVED DARK ENERGY CONSTRAINTS FROM ~100 NEW CfA SUPERNOVA TYPE Ia LIGHT CURVES. <i>Astrophysical Journal</i> , 2009 , 700, 1097-1140	4.7	694
49	Observational Constraints on the Nature of Dark Energy: First Cosmological Results from the ESSENCE Supernova Survey. <i>Astrophysical Journal</i> , 2007 , 666, 694-715	4.7	688
48	Scrutinizing Exotic Cosmological Models Using ESSENCE Supernova Data Combined with Other Cosmological Probes. <i>Astrophysical Journal</i> , 2007 , 666, 716-725	4.7	446
47	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	4.7	366
46	CfA3: 185 TYPE Ia SUPERNOVA LIGHT CURVES FROM THE CfA. <i>Astrophysical Journal</i> , 2009 , 700, 331-357	4.7	333
45	Determining the Type, Redshift, and Age of a Supernova Spectrum. <i>Astrophysical Journal</i> , 2007 , 666, 1024-1047	4.7	315
44	The ESSENCE Supernova Survey: Survey Optimization, Observations, and Supernova Photometry. <i>Astrophysical Journal</i> , 2007 , 666, 674-693	4.7	223
43	THE SPECTROSCOPIC DIVERSITY OF TYPE Ia SUPERNOVAE. <i>Astronomical Journal</i> , 2012 , 143, 126	4.9	209
42	The Luminous and Carbon-rich Supernova 2006gz: A Double Degenerate Merger?. <i>Astrophysical Journal</i> , 2007 , 669, L17-L20	4.7	193
41	FROM SHOCK BREAKOUT TO PEAK AND BEYOND: EXTENSIVE PANCHROMATIC OBSERVATIONS OF THE TYPE Ib SUPERNOVA 2008D ASSOCIATED WITH SWIFT X-RAY TRANSIENT 080109. <i>Astrophysical Journal</i> , 2009 , 702, 226-248	4.7	191
40	Early-Time Photometry and Spectroscopy of the Fast Evolving SN 2006aj Associated with GRB 060218. <i>Astrophysical Journal</i> , 2006 , 645, L21-L24	4.7	159
39	OPTICAL SPECTRA OF 73 STRIPPED-ENVELOPE CORE-COLLAPSE SUPERNOVAE. <i>Astronomical Journal</i> , 2014 , 147, 99	4.9	132
38	VARIABLE SODIUM ABSORPTION IN A LOW-EXTINCTION TYPE Ia SUPERNOVA. <i>Astrophysical Journal</i> , 2009 , 702, 1157-1170	4.7	131
37	Type Ia Supernovae Are Good Standard Candles in the Near Infrared: Evidence from PAIRITEL. <i>Astrophysical Journal</i> , 2008 , 689, 377-390	4.7	121
36	A SECOND CASE OF VARIABLE Na I D LINES IN A HIGHLY REDDENED TYPE Ia SUPERNOVA. <i>Astrophysical Journal</i> , 2009 , 693, 207-215	4.7	114
35	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	4.7	106
34	OPTICAL SPECTROSCOPY OF TYPE Ia SUPERNOVAE. <i>Astronomical Journal</i> , 2008 , 135, 1598-1615	4.9	105

33	Double-Peaked Oxygen Lines Are Not Rare in Nebular Spectra of Core-Collapse Supernovae. <i>Astrophysical Journal</i> , 2008 , 687, L9-L12	4-7	92
32	Spectral Identification of an Ancient Supernova Using Light Echoes in the Large Magellanic Cloud. <i>Astrophysical Journal</i> , 2008 , 680, 1137-1148	4-7	90
31	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	4-3	89
30	Using Line Profiles to Test the Fraternity of Type Ia Supernovae at High and Low Redshifts. <i>Astronomical Journal</i> , 2006 , 131, 1648-1666	4-9	83
29	DIRECT CONFIRMATION OF THE ASYMMETRY OF THE CAS A SUPERNOVA WITH LIGHT ECHOES. <i>Astrophysical Journal</i> , 2011 , 732, 3	4-7	79
28	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	4-3	66
27	Constraints on the explosion mechanism and progenitors of Type Ia supernovae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014 , 441, 532-550	4-3	65
26	Do spectra improve distance measurements of Type Ia supernovae?. <i>Astronomy and Astrophysics</i> , 2011 , 526, A81	5-1	60
25	Spectroscopy of High-Redshift Supernovae from the ESSENCE Project: The First 2 Years. <i>Astronomical Journal</i> , 2005 , 129, 2352-2375	4-9	58
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	4-3	57
23	Constraining Cosmic Evolution of Type Ia Supernovae. <i>Astrophysical Journal</i> , 2008 , 684, 68-87	4-7	56
22	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	4-3	49
21	Critical ingredients of Type Ia supernova radiative-transfer modelling. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014 , 441, 3249-3270	4-3	46
20	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	5	45
19	Light Curves of Type Ia Supernovae from Near the Time of Explosion. <i>Astronomical Journal</i> , 2007 , 133, 403-419	4-9	43
18	Time Dilation in Type Ia Supernova Spectra at High Redshift*. <i>Astrophysical Journal</i> , 2008 , 682, 724-736	4-7	42
17	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	4-3	37
16	SPECTROSCOPY OF HIGH-REDSHIFT SUPERNOVAE FROM THE ESSENCE PROJECT: THE FIRST FOUR YEARS. <i>Astronomical Journal</i> , 2009 , 137, 3731-3742	4-9	37

15	Hubble Space Telescope Observations of Nine High-Redshift ESSENCE Supernovae. <i>Astronomical Journal</i> , 2005 , 130, 2453-2472	4.9	37
14	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	4.7	37
13	PRECISION DETERMINATION OF ATMOSPHERIC EXTINCTION AT OPTICAL AND NEAR-INFRARED WAVELENGTHS. <i>Astrophysical Journal</i> , 2010 , 720, 811-823	4.7	28
12	Two classes of fast-declining Type Ia supernovae. <i>Astronomy and Astrophysics</i> , 2017 , 602, A118	5.1	24
11	Extracting clean supernova spectra. <i>Astronomy and Astrophysics</i> , 2005 , 431, 757-771	5.1	24
10	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	4.3	23
9	Type II Supernova Light Curves and Spectra from the CfA. <i>Astrophysical Journal, Supplement Series</i> , 2017 , 233, 6	8	21
8	Evidence for a Chandrasekhar-mass explosion in the Ca-strong 1991bg-like type Ia supernova 2016hbk. <i>Astronomy and Astrophysics</i> , 2019 , 630, A76	5.1	21
7	[Co III] versus Na I D in Type Ia supernova spectra. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014 , 439, 3114-3120	4.3	19
6	Sub-Chandrasekhar progenitors favoured for type Ia supernovae: Evidence from late-time spectroscopy?.. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 ,	4.3	19
5	LIGHT CURVES OF 213 TYPE Ia SUPERNOVAE FROM THE ESSENCE SURVEY. <i>Astrophysical Journal, Supplement Series</i> , 2016 , 224, 3	8	15
4	ON THE INTERPRETATION OF SUPERNOVA LIGHT ECHO PROFILES AND SPECTRA. <i>Astrophysical Journal</i> , 2011 , 732, 2	4.7	15
3	Non-local Thermodynamic Equilibrium Radiative Transfer Simulations of Sub-Chandrasekhar-mass White Dwarf Detonations. <i>Astrophysical Journal Letters</i> , 2021 , 909, L18	7.9	13
2	Exploring the Outer Solar System with the ESSENCE Supernova Survey. <i>Astrophysical Journal</i> , 2008 , 682, L53-L56	4.7	12
1	Evidence for dark energy from Type Ia supernovae. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2005 , 138, 10-15		2