Bruno Leibundgut

List of Publications by Citations

50 papers	16,183 citations	28 h-index	51 g-index
51 ext. papers	17,584 ext. citations	6.6 avg, IF	5.23 L-index

#	Paper	IF	Citations
50	Observational Evidence from Supernovae for an Accelerating Universe and a Cosmological Constant. *Astronomical Journal*, **1998**, 116, 1009-1038	4.9	11725
49	The High-Z Supernova Search: Measuring Cosmic Deceleration and Global Curvature of the Universe Using Type Ia Supernovae. *Astrophysical Journal*, **1998**, 507, 46-63	4.7	1039
48	Observational Constraints on the Nature of Dark Energy: First Cosmological Results from the ESSENCE Supernova Survey. *Astrophysical Journal*, **2007**, 666, 694-715	4.7	688
47	Scrutinizing Exotic Cosmological Models Using ESSENCE Supernova Data Combined with Other Cosmological Probes. *Astrophysical Journal*, **2007**, 666, 716-725	4.7	446
46	SN 1991bg - A type IA supernova with a difference. *Astronomical Journal*, **1993**, 105, 301	4.9	241
45	SN 1991T - Further evidence of the heterogeneous nature of type IA supernovae. *Astronomical Journal*, **1992**, 103, 1632	4.9	230
44	The ESSENCE Supernova Survey: Survey Optimization, Observations, and Supernova Photometry. *Astrophysical Journal*, **2007**, 666, 674-693	4.7	223
43	Cosmological Implications from Observations of Type Ia Supernovae. *Annual Review of Astronomy and Astrophysics*, **2001**, 39, 67-98	31.7	193
42	Constraints on the progenitor systems of type Ia supernovae. *Astronomy and Astrophysics*, **2006**, 450, 241-251	5.1	113
41	Measuring the Hubble constant with Type Ia supernovae as near-infrared standard candles. *Astronomy and Astrophysics*, **2018**, 609, A72	5.1	108
40	Lower limits on the Hubble constant from models of type Ia supernovae. *Astronomy and Astrophysics*, **2005**, 431, 423-431	5.1	74
39	Supernova Cosmology: Legacy and Future. *Annual Review of Nuclear and Particle Science*, **2011**, 61, 251-279	15.7	68
38	Time Dilation in the Light Curve of the Distant Type Ia Supernova SN 1995K. *Astrophysical Journal*, **1996**, 466, L21-L24	4.7	67
37	Time Dilation from Spectral Feature Age Measurements of Type IA Supernovae.. *Astronomical Journal*, **1997**, 114, 722	4.9	64
36	X-ray illumination of the ejecta of supernova 1987A. *Nature*, **2011**, 474, 484-6	50.4	58
35	Spectroscopy of High-Redshift Supernovae from the ESSENCE Project: The First 2 Years. *Astronomical Journal*, **2005**, 129, 2352-2375	4.9	58
34	Evidence for Ni-56 yields Co-56 yields Fe-56 decay in type IA supernovae. *Astrophysical Journal*, **1994**, 426, L89	4.7	56

33	A comparative study of Type II-P and II-L supernova rise times as exemplified by the case of LSQ13cuw. *Astronomy and Astrophysics*, **2015**, 582, A3	5.1	52
32	Modeling theHubble Space TelescopeUltraviolet and Optical Spectrum of Spot 1 on the Circumstellar Ring of SN 1987A. *Astrophysical Journal*, **2002**, 572, 906-931	4.7	52
31	The 3-D structure of SN 1987A's inner ejecta. *Astronomy and Astrophysics*, **2010**, 517, A51	5.1	51
30	Time Dilation in Type Ia Supernova Spectra at High Redshift*. *Astrophysical Journal*, **2008**, 682, 724-736	4.7	42
29	THE DESTRUCTION OF THE CIRCUMSTELLAR RING OF SN 1987A. *Astrophysical Journal Letters*, **2015**, 806, L19	7.9	39
28	THREE-DIMENSIONAL DISTRIBUTION OF EJECTA IN SUPERNOVA 1987A AT 10,000 DAYS. *Astrophysical Journal*, **2016**, 833, 147	4.7	37
27	SPECTROSCOPY OF HIGH-REDSHIFT SUPERNOVAE FROM THE ESSENCE PROJECT: THE FIRST FOUR YEARS. *Astronomical Journal*, **2009**, 137, 3731-3742	4.9	37
26	THE MORPHOLOGY OF THE EJECTA IN SUPERNOVA 1987A: A STUDY OVER TIME AND WAVELENGTH. *Astrophysical Journal*, **2013**, 768, 89	4.7	35
25	Optical and near infrared observations of SN 1998bu. *Astronomy and Astrophysics*, **2004**, 426, 547-553	5.1	34
24	Time evolution of the line emission from the inner circumstellar ring of SN 1987A and its hot spots. *Astronomy and Astrophysics*, **2008**, 492, 481-491	5.1	32
23	LATE SPECTRAL EVOLUTION OF THE EJECTA AND REVERSE SHOCK IN SN 1987A. *Astrophysical Journal*, **2013**, 768, 88	4.7	29
22	Supernovae and cosmology. *General Relativity and Gravitation*, **2008**, 40, 221-248	2.3	26
21	High resolution spectroscopy of the inner ring of SN 1987A. *Astronomy and Astrophysics*, **2008**, 479, 761-777	5.1	25
20	Two classes of fast-declining Type Ia supernovae. *Astronomy and Astrophysics*, **2017**, 602, A118	5.1	24
19	Extracting clean supernova spectra. *Astronomy and Astrophysics*, **2005**, 431, 757-771	5.1	24
18	Near-infrared light curves of Type Ia supernovae: studying properties of the second maximum. *Monthly Notices of the Royal Astronomical Society*, **2015**, 448, 1345-1359	4.3	23
17	The 30 Year Search for the Compact Object in SN 1987A. *Astrophysical Journal*, **2018**, 864, 174	4.7	20
16	DISCOVERY OF MOLECULAR HYDROGEN IN SN 1987A. *Astrophysical Journal Letters*, **2016**, 821, L5	7.9	19

15	A reddening-free method to estimate the56Ni mass of Type Ia supernovae. *Astronomy and Astrophysics*, **2016**, 588, A84	5.1	16
14	LIGHT CURVES OF 213 TYPE Ia SUPERNOVAE FROM THE ESSENCE SURVEY. *Astrophysical Journal, Supplement Series*, **2016**, 224, 3	8	15
13	Applying the expanding photosphere and standardized candle methods to Type II-Plateau supernovae at cosmologically significant redshifts. *Astronomy and Astrophysics*, **2016**, 592, A129	5.1	13
12	The Matter Beyond the Ring: The Recent Evolution of SN 1987A Observed by the Hubble Space Telescope. *Astrophysical Journal*, **2019**, 886, 147	4.7	12
11	Search for Surviving Companions of Progenitors of Young LMC SN Ia Remnants. *Astrophysical Journal*, **2019**, 886, 99	4.7	11
10	Nebular spectroscopy of SN 2014J: Detection of stable nickel in near-infrared spectra. *Astronomy and Astrophysics*, **2018**, 619, A102	5.1	11
9	Type Iax supernovae as a few-parameter family. *Monthly Notices of the Royal Astronomical Society*, **2018**, 480, 3609-3627	4.3	11
8	An updated Type II supernova Hubble diagram. *Astronomy and Astrophysics*, **2018**, 611, A25	5.1	10
7	Infrared integral field spectroscopy of SN 1987A. *Astronomy and Astrophysics*, **2007**, 471, 617-624	5.1	8
6	Type Ia Supernova Cosmology. *Space Science Reviews*, **2018**, 214, 1	7.5	7
5	Standardizing Type Ia supernovae optical brightness using near-infrared rebrightening time. *Monthly Notices of the Royal Astronomical Society*, **2016**, 463, 4311-4316	4.3	7
4	A Three-dimensional View of Molecular Hydrogen in SN 1987A. *Astrophysical Journal*, **2019**, 873, 15	4.7	5
3	Forbidden Line Emission from Type Ia Supernova Remnants Containing Balmer-dominated Shells. *Astrophysical Journal*, **2021**, 923, 141	4.7	2
2	History of Supernovae as Distance Indicators **2016**, 1-17		2
1	Type Ia Supernova Cosmology. *Space Sciences Series of ISSI*, **2019**, 7-20	0.1	