

# Bruno Leibundgut

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Forbidden Line Emission from Type Ia Supernova Remnants Containing Balmer-dominated Shells. <i>Astrophysical Journal</i> , <b>2021</b> , 923, 141	4.7	2
49	A Three-dimensional View of Molecular Hydrogen in SN 1987A. <i>Astrophysical Journal</i> , <b>2019</b> , 873, 15	4.7	5
48	Type Ia Supernova Cosmology. <i>Space Sciences Series of ISSI</i> , <b>2019</b> , 7-20	0.1	
47	Search for Surviving Companions of Progenitors of Young LMC SN Ia Remnants. <i>Astrophysical Journal</i> , <b>2019</b> , 886, 99	4.7	11
46	The Matter Beyond the Ring: The Recent Evolution of SN 1987A Observed by the Hubble Space Telescope. <i>Astrophysical Journal</i> , <b>2019</b> , 886, 147	4.7	12
45	Type Ia Supernova Cosmology. <i>Space Science Reviews</i> , <b>2018</b> , 214, 1	7.5	7
44	An updated Type II supernova Hubble diagram. <i>Astronomy and Astrophysics</i> , <b>2018</b> , 611, A25	5.1	10
43	Nebular spectroscopy of SN 2014J: Detection of stable nickel in near-infrared spectra. <i>Astronomy and Astrophysics</i> , <b>2018</b> , 619, A102	5.1	11
42	Type Ia supernovae as a few-parameter family. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2018</b> , 480, 3609-3627	4.3	11
41	The 30 Year Search for the Compact Object in SN 1987A. <i>Astrophysical Journal</i> , <b>2018</b> , 864, 174	4.7	20
40	Measuring the Hubble constant with Type Ia supernovae as near-infrared standard candles. <i>Astronomy and Astrophysics</i> , <b>2018</b> , 609, A72	5.1	108
39	Two classes of fast-declining Type Ia supernovae. <i>Astronomy and Astrophysics</i> , <b>2017</b> , 602, A118	5.1	24
38	LIGHT CURVES OF 213 TYPE Ia SUPERNOVAE FROM THE ESSENCE SURVEY. <i>Astrophysical Journal, Supplement Series</i> , <b>2016</b> , 224, 3	8	15
37	THREE-DIMENSIONAL DISTRIBUTION OF EJECTA IN SUPERNOVA 1987A AT 10,000 DAYS. <i>Astrophysical Journal</i> , <b>2016</b> , 833, 147	4.7	37
36	History of Supernovae as Distance Indicators <b>2016</b> , 1-17		2
35	A reddening-free method to estimate the $^{56}\text{Ni}$ mass of Type Ia supernovae. <i>Astronomy and Astrophysics</i> , <b>2016</b> , 588, A84	5.1	16
34	Applying the expanding photosphere and standardized candle methods to Type II-Plateau supernovae at cosmologically significant redshifts. <i>Astronomy and Astrophysics</i> , <b>2016</b> , 592, A129	5.1	13

33	Standardizing Type Ia supernovae optical brightness using near-infrared rebrightening time. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2016</b> , 463, 4311-4316	4.3	7
32	DISCOVERY OF MOLECULAR HYDROGEN IN SN 1987A. <i>Astrophysical Journal Letters</i> , <b>2016</b> , 821, L5	7.9	19
31	Near-infrared light curves of Type Ia supernovae: studying properties of the second maximum. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2015</b> , 448, 1345-1359	4.3	23
30	A comparative study of Type II-P and II-L supernova rise times as exemplified by the case of LSQ13cuw. <i>Astronomy and Astrophysics</i> , <b>2015</b> , 582, A3	5.1	52
29	THE DESTRUCTION OF THE CIRCUMSTELLAR RING OF SN 1987A. <i>Astrophysical Journal Letters</i> , <b>2015</b> , 806, L19	7.9	39
28	THE MORPHOLOGY OF THE EJECTA IN SUPERNOVA 1987A: A STUDY OVER TIME AND WAVELENGTH. <i>Astrophysical Journal</i> , <b>2013</b> , 768, 89	4.7	35
27	LATE SPECTRAL EVOLUTION OF THE EJECTA AND REVERSE SHOCK IN SN 1987A. <i>Astrophysical Journal</i> , <b>2013</b> , 768, 88	4.7	29
26	X-ray illumination of the ejecta of supernova 1987A. <i>Nature</i> , <b>2011</b> , 474, 484-6	50.4	58
25	Supernova Cosmology: Legacy and Future. <i>Annual Review of Nuclear and Particle Science</i> , <b>2011</b> , 61, 251-279	7.9	68
24	The 3-D structure of SN 1987A's inner ejecta. <i>Astronomy and Astrophysics</i> , <b>2010</b> , 517, A51	5.1	51
23	SPECTROSCOPY OF HIGH-REDSHIFT SUPERNOVAE FROM THE ESSENCE PROJECT: THE FIRST FOUR YEARS. <i>Astronomical Journal</i> , <b>2009</b> , 137, 3731-3742	4.9	37
22	Time Dilation in Type Ia Supernova Spectra at High Redshift*. <i>Astrophysical Journal</i> , <b>2008</b> , 682, 724-736	4.7	42
21	Time evolution of the line emission from the inner circumstellar ring of SN 1987A and its hot spots. <i>Astronomy and Astrophysics</i> , <b>2008</b> , 492, 481-491	5.1	32
20	High resolution spectroscopy of the inner ring of SN 1987A. <i>Astronomy and Astrophysics</i> , <b>2008</b> , 479, 761-777	5.1	25
19	Supernovae and cosmology. <i>General Relativity and Gravitation</i> , <b>2008</b> , 40, 221-248	2.3	26
18	Infrared integral field spectroscopy of SN 1987A. <i>Astronomy and Astrophysics</i> , <b>2007</b> , 471, 617-624	5.1	8
17	Observational Constraints on the Nature of Dark Energy: First Cosmological Results from the ESSENCE Supernova Survey. <i>Astrophysical Journal</i> , <b>2007</b> , 666, 694-715	4.7	688
16	The ESSENCE Supernova Survey: Survey Optimization, Observations, and Supernova Photometry. <i>Astrophysical Journal</i> , <b>2007</b> , 666, 674-693	4.7	223

15	Scrutinizing Exotic Cosmological Models Using ESSENCE Supernova Data Combined with Other Cosmological Probes. <i>Astrophysical Journal</i> , <b>2007</b> , 666, 716-725	4.7	446
14	Constraints on the progenitor systems of type Ia supernovae. <i>Astronomy and Astrophysics</i> , <b>2006</b> , 450, 241-251	5.1	113
13	Spectroscopy of High-Redshift Supernovae from the ESSENCE Project: The First 2 Years. <i>Astronomical Journal</i> , <b>2005</b> , 129, 2352-2375	4.9	58
12	Lower limits on the Hubble constant from models of type Ia supernovae. <i>Astronomy and Astrophysics</i> , <b>2005</b> , 431, 423-431	5.1	74
11	Extracting clean supernova spectra. <i>Astronomy and Astrophysics</i> , <b>2005</b> , 431, 757-771	5.1	24
10	Optical and near infrared observations of SN 1998bu. <i>Astronomy and Astrophysics</i> , <b>2004</b> , 426, 547-553	5.1	34
9	Modeling the Hubble Space Telescope Ultraviolet and Optical Spectrum of Spot 1 on the Circumstellar Ring of SN 1987A. <i>Astrophysical Journal</i> , <b>2002</b> , 572, 906-931	4.7	52
8	Cosmological Implications from Observations of Type Ia Supernovae. <i>Annual Review of Astronomy and Astrophysics</i> , <b>2001</b> , 39, 67-98	31.7	193
7	Observational Evidence from Supernovae for an Accelerating Universe and a Cosmological Constant. <i>Astronomical Journal</i> , <b>1998</b> , 116, 1009-1038	4.9	11725
6	The High-Z Supernova Search: Measuring Cosmic Deceleration and Global Curvature of the Universe Using Type Ia Supernovae. <i>Astrophysical Journal</i> , <b>1998</b> , 507, 46-63	4.7	1039
5	Time Dilation from Spectral Feature Age Measurements of Type IA Supernovae.. <i>Astronomical Journal</i> , <b>1997</b> , 114, 722	4.9	64
4	Time Dilation in the Light Curve of the Distant Type Ia Supernova SN 1995K. <i>Astrophysical Journal</i> , <b>1996</b> , 466, L21-L24	4.7	67
3	Evidence for Ni-56 yields Co-56 yields Fe-56 decay in type IA supernovae. <i>Astrophysical Journal</i> , <b>1994</b> , 426, L89	4.7	56
2	SN 1991bg - A type IA supernova with a difference. <i>Astronomical Journal</i> , <b>1993</b> , 105, 301	4.9	241
1	SN 1991T - Further evidence of the heterogeneous nature of type IA supernovae. <i>Astronomical Journal</i> , <b>1992</b> , 103, 1632	4.9	230