Luc Dessart

List of Publications by Year in descending order

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all docs

40 4,191 28 38 g-index

40 40 40 40 40 3676

times ranked

citing authors

docs citations

#	Article	IF	CITATIONS
1	Non-local Thermodynamic Equilibrium Radiative Transfer Simulations of Sub-Chandrasekhar-mass White Dwarf Detonations. Astrophysical Journal Letters, 2021, 909, L18.	8.3	43
2	A High-velocity Scatterer Revealed in the Thinning Ejecta of a Type II Supernova. Astrophysical Journal Letters, 2021, 921, L35.	8.3	3
3	Understanding nebular spectra of Type Ia supernovae. Monthly Notices of the Royal Astronomical Society, 2020, 494, 2221-2235.	4.4	18
4	Supernovae Ib and Ic from the explosion of helium stars. Astronomy and Astrophysics, 2020, 642, A106.	5.1	34
5	ZTF Early Observations of Type Ia Supernovae. III. Early-time Colors As a Test for Explosion Models and Multiple Populations. Astrophysical Journal, 2020, 902, 48.	4.5	26
6	Direct Evidence of Two-component Ejecta in Supernova 2016gkg from Nebular Spectroscopy*. Astrophysical Journal, 2020, 902, 139.	4.5	6
7	Photometric and spectroscopic diversity of Type II supernovae. Astronomy and Astrophysics, 2019, 631, A8.	5.1	40
8	Simulations of light curves and spectra for superluminous Type Ic supernovae powered by magnetars. Astronomy and Astrophysics, 2019, 621, A141.	5.1	35
9	Type Ib/Ic Supernovae: Effect of Nickel Mixing on the Early-time Color Evolution and Implications for the Progenitors. Astrophysical Journal, 2019, 872, 174.	4.5	24
10	Super-luminous Type II supernovae powered by magnetars. Astronomy and Astrophysics, 2018, 613, A5.	5.1	12
11	Supernovae from massive stars with extended tenuous envelopes. Astronomy and Astrophysics, 2018, 612, A61.	5.1	20
12	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.	4.4	28
13	Type Ib and IIb Supernova Progenitors in Interacting Binary Systems. Astrophysical Journal, 2017, 840, 10.	4.5	109
14	Explosion of red-supergiant stars: Influence of the atmospheric structure on shock breakout and early-time supernova radiation. Astronomy and Astrophysics, 2017, 605, A83.	5.1	63
15	Type II Supernova Spectral Diversity. I. Observations, Sample Characterization, and Spectral Line Evolution*. Astrophysical Journal, 2017, 850, 89.	4.5	87
16	Evidence for sub-Chandrasekhar-mass progenitors of Type Ia supernovae at the faint end of the width–luminosity relation. Monthly Notices of the Royal Astronomical Society, 2017, 470, 157-165.	4.4	75
17	A study of the low-luminosity Type II-Plateau supernova 2008bk. Monthly Notices of the Royal Astronomical Society, 2017, 466, 34-48.	4.4	33
18	Type II Supernova Spectral Diversity. II. Spectroscopic and Photometric Correlations. Astrophysical Journal, 2017, 850, 90.	4.5	48

#	Article	IF	Citations
19	Radiative-transfer models for explosions from rotating and non-rotating single WC stars. Astronomy and Astrophysics, 2017, 603, A51.	5.1	34
20	Inferring supernova IIb/Ib/Ic ejecta properties from light curves and spectra: correlations from radiative-transfer models. Monthly Notices of the Royal Astronomical Society, 2016, 458, 1618-1635.	4.4	69
21	On the Explosion Geometry of Red Supergiant Stars. Proceedings of the International Astronomical Union, 2015, 11, 458-458.	0.0	2
22	Radiative-transfer models for supernovae IIb/Ib/Ic from binary-star progenitors. Monthly Notices of the Royal Astronomical Society, 2015, 453, 2189-2213.	4.4	73
23	MODULES FOR EXPERIMENTS IN STELLAR ASTROPHYSICS (MESA): BINARIES, PULSATIONS, AND EXPLOSIONS. Astrophysical Journal, Supplement Series, 2015, 220, 15.	7.7	1,990
24	Critical ingredients of Type Ia supernova radiative-transfer modelling. Monthly Notices of the Royal Astronomical Society, 2014, 441, 3249-3270.	4.4	51
25	Constraints on the explosion mechanism and progenitors of Type Ia supernovae. Monthly Notices of the Royal Astronomical Society, 2014, 441, 532-550.	4.4	79
26	Type II-Plateau supernova radiation: dependences on progenitor and explosion properties. Monthly Notices of the Royal Astronomical Society, 2013, 433, 1745-1763.	4.4	143
27	Radiative properties of pair-instability supernova explosions. Monthly Notices of the Royal Astronomical Society, 2013, 428, 3227-3251.	4.4	104
28	Time-dependent radiative transfer calculations for supernovae. Monthly Notices of the Royal Astronomical Society, 2012, 424, 252-271.	4.4	98
29	On the nature of supernovae Ib and Ic. Monthly Notices of the Royal Astronomical Society, 2012, 424, 2139-2159.	4.4	157
30	Core-collapse explosions of Wolf-Rayet stars and the connection to Type IIb/Ib/Ic supernovae. Monthly Notices of the Royal Astronomical Society, 2011, 414, 2985-3005.	4.4	171
31	Synthetic line and continuum linear-polarization signatures of axisymmetric Type II supernova ejecta. Monthly Notices of the Royal Astronomical Society, 2011, 415, 3497-3519.	4.4	43
32	Determining the main-sequence mass of Type II supernova progenitors. Monthly Notices of the Royal Astronomical Society, 2010, 408, 827-840.	4.4	86
33	Non-LTE time-dependent spectroscopic modelling of Type II-plateau supernovae from the photospheric to the nebular phase: case study for 15 and 25â€∫MâS™ progenitor stars. Monthly Notices of the Royal Astronomical Society, 2010, , no-no.	4.4	35
34	Supernova radiative-transfer modelling: a new approach using non-local thermodynamic equilibrium and full time dependence. Monthly Notices of the Royal Astronomical Society, 2010, , .	4.4	32
35	Shock-heating of stellar envelopes: a possible common mechanism at the origin of explosions and eruptions in massive stars. Monthly Notices of the Royal Astronomical Society, 2010, , no-no.	4.4	30
36	SN 1994W: an interacting supernova or two interacting shells?. Monthly Notices of the Royal Astronomical Society, 2009, 394, 21-37.	4.4	105

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37	Using Quantitative Spectroscopic Analysis to Determine the Properties and Distances of Type II Plateau Supernovae: SN 2005cs and SN 2006bp. Astrophysical Journal, 2008, 675, 644-669.	4.5	118
38	Thoughts on Core-Collapse Supernova Theory. Proceedings of the International Astronomical Union, 2007, 3, 185-192.	0.0	0
39	Magnetic Massive Stars. Proceedings of the International Astronomical Union, 2007, 3, 577-586.	0.0	1
40	Time-dependent effects in photospheric-phase Type II supernova spectra. Monthly Notices of the Royal Astronomical Society, 0, 383, 57-74.	4.4	66