Claus Leitherer

List of Publications by Year
in descending order

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60 papers	9,234 citations	101543 36 h-index	138484 58 g-index
60 all docs	60 docs citations	60 times ranked	4377 citing authors

#	Article	IF	Citations
1	Starburst99: Synthesis Models for Galaxies with Active Star Formation. Astrophysical Journal, Supplement Series, 1999, 123, 3-40.	7.7	3,279
2	Synthetic properties of starburst galaxies. Astrophysical Journal, Supplement Series, 1995, 96, 9.	7.7	539
3	Optimization of Starburst99 for Intermediateâ€Age and Old Stellar Populations. Astrophysical Journal, 2005, 621, 695-717.	4.5	415
4	THE COSMIC ORIGINS SPECTROGRAPH. Astrophysical Journal, 2012, 744, 60.	4.5	381
5	THEORETICAL EVOLUTION OF OPTICAL STRONG LINES ACROSS COSMIC TIME. Astrophysical Journal, 2013, 774, 100.	4.5	340
6	THE EFFECTS OF STELLAR ROTATION. II. A COMPREHENSIVE SET OF STARBURST99 MODELS. Astrophysical Journal, Supplement Series, 2014, 212, 14.	7.7	328
7	A LIBRARY OF THEORETICAL ULTRAVIOLET SPECTRA OF MASSIVE, HOT STARS FOR EVOLUTIONARY SYNTHESIS. Astrophysical Journal, Supplement Series, 2010, 189, 309-335.	7.7	247
8	THE SYSTEMATIC PROPERTIES OF THE WARM PHASE OF STARBURST-DRIVEN GALACTIC WINDS. Astrophysical Journal, 2015, 809, 147.	4.5	246
9	The Ultraviolet Spectroscopic Properties of Local Starbursts: Implications at High Redshift. Astrophysical Journal, 1998, 503, 646-661.	4.5	234
10	EXTREME FEEDBACK AND THE EPOCH OF REIONIZATION: CLUES IN THE LOCAL UNIVERSE. Astrophysical Journal, 2011, 730, 5.	4.5	232
11	The Lyman Continuum in Starburst Galaxies Observed with the Hopkins Ultraviolet Telescope. Astrophysical Journal, 1995, 454, .	4.5	210
12	THE ANTENNAE GALAXIES (NGC 4038/4039) REVISITED: ADVANCED CAMERA FOR SURVEYS AND NICMOS OBSERVATIONS OF A PROTOTYPICAL MERGER. Astronomical Journal, 2010, 140, 75-109.	4.7	171
13	Modeling the Panâ€Spectral Energy Distribution of Starburst Galaxies. III. Emission Line Diagnostics of Ensembles of Evolving H ii Regions. Astrophysical Journal, Supplement Series, 2006, 167, 177-200.	7.7	158
14	A local clue to the reionization of the universe. Science, 2014, 346, 216-219.	12.6	153
15	Synthetic Spectra of H Balmer and He i Absorption Lines. II. Evolutionary Synthesis Models for Starburst and Poststarburst Galaxies. Astrophysical Journal, Supplement Series, 1999, 125, 489-509.	7.7	151
16	LyÎ± Profile, Dust, and Prediction of LyÎ± Escape Fraction in Green Pea Galaxies. Astrophysical Journal, 2017, 844, 171.	4.5	127
17	Global Farâ€Ultraviolet (912â€“1800 A) Properties of Starâ€forming Galaxies. Astrophysical Journal, Supplement Series, 2002, 140, 303-329.	7.7	122
18	SCALING RELATIONS BETWEEN WARM GALACTIC OUTFLOWS AND THEIR HOST GALAXIES. Astrophysical Journal, 2015, 811, 149.	4.5	118

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19	The mass and momentum outflow rates of photoionized galactic outflows. Monthly Notices of the Royal Astronomical Society, 2017, 469, 4831-4849.	4.4	114
20	THE LYMAN ALPHA MORPHOLOGY OF LOCAL STARBURST GALAXIES: RELEASE OF CALIBRATED IMAGES. Astronomical Journal, 2009, 138, 923-940.	4.7	113
21	Spectral Modeling of Starâ€forming Regions in the Ultraviolet: Stellar Metallicity Diagnostics for Highâ€Redshift Galaxies. Astrophysical Journal, 2004, 615, 98-117.	4.5	110
22	DIRECT DETECTION OF LYMAN CONTINUUM ESCAPE FROM LOCAL STARBURST GALAXIES WITH THE COSMIC ORIGINS SPECTROGRAPH. Astrophysical Journal, 2016, 823, 64.	4.5	110
23	Star Formation in the Field and Clusters of NGC 5253. Astrophysical Journal, 2001, 555, 322-337.	4.5	102
24	AN ULTRAVIOLET SPECTROSCOPIC ATLAS OF LOCAL STARBURSTS AND STAR-FORMING GALAXIES: THE LEGACY OF FOS AND GHRS. Astronomical Journal, 2011, 141, 37.	4.7	96
25	THE EFFECTS OF STELLAR ROTATION. I. IMPACT ON THE IONIZING SPECTRA AND INTEGRATED PROPERTIES OF STELLAR POPULATIONS. Astrophysical Journal, 2012, 751, 67.	4.5	96
26	Ultraviolet Line Spectra of Metalâ€poor Starâ€forming Galaxies. Astrophysical Journal, 2001, 550, 724-736.	4.5	92
27	The First Deep Advanced Camera for Surveys LyÎ± Images of Local Starburst Galaxies. Astrophysical Journal, 2003, 597, 263-268.	4.5	83
28	INDIRECT EVIDENCE FOR ESCAPING IONIZING PHOTONS IN LOCAL LYMAN BREAK GALAXY ANALOGS. Astrophysical Journal, 2015, 810, 104.	4.5	77
29	Farâ€Ultraviolet Spectra of Starburst Galaxies: Stellar Population and the Kinematics of the Interstellar Medium. Astrophysical Journal, 1998, 495, 698-717.	4.5	75
30	LyÎ± ESCAPE FROMzâ¼ 0.03 STAR-FORMING GALAXIES: THE DOMINANT ROLE OF OUTFLOWS. Astrophysical Journal, 2013, 765, 118.	4.5	71
31	B Stars as a Diagnostic of Star Formation at Low and High Redshift. Astrophysical Journal, 2000, 530, 251-276.	4.5	69
32	Shining a light on galactic outflows: photoionized outflows. Monthly Notices of the Royal Astronomical Society, 2016, 457, 3133-3161.	4.4	58
33	Models for Massive Stellar Populations with Rotation. Astrophysical Journal, 2007, 663, 995-1020.	4.5	57
34	NGC 3125â€1: The Most Extreme Wolfâ€Rayet Star Cluster Known in the Local Universe. Astrophysical Journal, 2004, 604, 153-166.	4.5	47
35	A robust measurement of the mass outflow rate of the galactic outflow from NGC 6090. Monthly Notices of the Royal Astronomical Society, 2016, 463, 541-556.	4.4	45
36	A New Technique for Finding Galaxies Leaking Lyman-continuum Radiation: [S ii]-deficiency. Astrophysical Journal, 2019, 885, 57.	4.5	38

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37	The Stellar Content of Henize 2â€10 from Space Telescope Imaging Spectrograph Ultraviolet Spectroscopy. Astrophysical Journal, 2003, 586, 939-958.	4.5	36
38	FAR-ULTRAVIOLET OBSERVATIONS OF OUTFLOWS FROM INFRARED-LUMINOUS GALAXIES. Astrophysical Journal, 2013, 772, 120.	4.5	30
39	MODELING TRACERS OF YOUNG STELLAR POPULATION AGE IN STAR-FORMING GALAXIES. Astrophysical Journal, 2013, 779, 170.	4.5	27
40	Supernova-driven outflows in NGC 7552: a comparison of Hâ€‰Î± and UV tracers. Monthly Notices of the Royal Astronomical Society, 2015, 452, 2712-2730.	4.4	27
41	LyÎ± and UV Sizes of Green Pea Galaxies. Astrophysical Journal, 2017, 838, 4.	4.5	27
42	A RARE ENCOUNTER WITH VERY MASSIVE STARS IN NGC 3125-A1. Astrophysical Journal, 2014, 781, 122.	4.5	26
43	The Massive Stellar Content in the Starburst NGC 3049: A Test for Hotâ€Star Models. Astrophysical Journal, 2002, 580, 824-843.	4.5	19
44	Physical Properties of II Zw 40's Super Star Cluster and Nebula: New Insights and Puzzles from UV Spectroscopy. Astrophysical Journal, 2018, 865, 55.	4.5	19
45	Starburst99 for Windows. New Astronomy, 2009, 14, 356-362.	1.8	18
46	Comparison of Theoretical Starburst Photoionization Models for Optical Diagnostics. Astrophysical Journal, 2019, 878, 2.	4.5	18
47	DIFFUSE FAR-UV LINE EMISSION FROM THE LOW-REDSHIFT LYMAN BREAK GALAXY ANALOG KISSR242. Astrophysical Journal Letters, 2010, 722, L80-L84.	8.3	17
48	H I LYMAN-ALPHA EQUIVALENT WIDTHS OF STELLAR POPULATIONS. Astronomical Journal, 2013, 146, 158.	4.7	13
49	Carbon Abundances in Starburst Galaxies of the Local Universe. Astrophysical Journal, 2017, 847, 107.	4.5	9
50	Massive Star Formation in the Ultraviolet Observed with the Hubble Space Telescope. Galaxies, 2020, 8, 13.	3.0	9
51	HST/WFC3 OBSERVATIONS OF AN OFF-NUCLEAR SUPERBUBBLE IN ARP 220. Astrophysical Journal, 2015, 810, 149.	4.5	7
52	ULTRAVIOLET ISM DIAGNOSTICS FOR STAR-FORMING GALAXIES. I. TRACERS OF METALLICITY AND EXTINCTION. Astrophysical Journal, 2015, 805, 151.	4.5	6
53	ORIGIN OF THE DIFFUSE, FAR ULTRAVIOLET EMISSION IN THE INTERARM REGIONS OF M101. Astrophysical Journal, 2015, 808, 76.	4.5	6
54	Investigating the Lyman photon escape in local starburst galaxies with the Cosmic Origins Spectrographâ˜.... Monthly Notices of the Royal Astronomical Society, 2018, 478, 1292-1304.	4.4	6

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55	He ii Emission from Wolfâ€“Rayet Stars as a Tool for Measuring Dust Reddening. Astronomical Journal, 2019, 158, 192.	4.7	5
56	SDSS-IV MaNGA: Observational Evidence of a Density-bounded Region in a LyÎ± Emitter. Astrophysical Journal, 2022, 924, 47.	4.5	2
57	Tracing the Ionization Structure of the Shocked Filaments of NGC 6240. Astrophysical Journal, 2021, 923, 160.	4.5	2
58	Unveiling an Old Disk around a Massive Young Leaking Blueberry in SDSS-IV MaNGA. Astrophysical Journal, 2022, 929, 50.	4.5	1
59	Modeling Small Stellar Populations Using Starburst99. Proceedings of the International Astronomical Union, 2015, 12, 359-360.	0.0	0
60	II Zw 40 â€“ 30 Doradus on Steroids. Proceedings of the International Astronomical Union, 2016, 12, 322-326.	0.0	0