

# Charles D Kilpatrick

## List of Publications by Citations

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57  
papers

2,377  
citations

23  
h-index

48  
g-index

62  
ext. papers

3,107  
ext. citations

7  
avg, IF

4.57  
L-index

#	Paper	IF	Citations
57	Swope Supernova Survey 2017a (SSS17a), the optical counterpart to a gravitational wave source. <i>Science</i> , <b>2017</b> , 358, 1556-1558	33.3	616
56	Light curves of the neutron star merger GW170817/SSS17a: Implications for r-process nucleosynthesis. <i>Science</i> , <b>2017</b> , 358, 1570-1574	33.3	352
55	Early spectra of the gravitational wave source GW170817: Evolution of a neutron star merger. <i>Science</i> , <b>2017</b> , 358, 1574-1578	33.3	170
54	Electromagnetic evidence that SSS17a is the result of a binary neutron star merger. <i>Science</i> , <b>2017</b> , 358, 1583-1587	33.3	156
53	A Neutron Star Binary Merger Model for GW170817/GRB 170817A/SSS17a. <i>Astrophysical Journal Letters</i> , <b>2017</b> , 848, L34	7.9	86
52	Host Galaxy Properties and Offset Distributions of Fast Radio Bursts: Implications for Their Progenitors. <i>Astrophysical Journal</i> , <b>2020</b> , 903, 152	4.7	64
51	Seventeen Tidal Disruption Events from the First Half of ZTF Survey Observations: Entering a New Era of Population Studies. <i>Astrophysical Journal</i> , <b>2021</b> , 908, 4	4.7	62
50	Should Type Ia Supernova Distances Be Corrected for Their Local Environments?. <i>Astrophysical Journal</i> , <b>2018</b> , 867, 108	4.7	62
49	The Foundation Supernova Survey: motivation, design, implementation, and first data release. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2018</b> , 475, 193-219	4.3	57
48	A tidal disruption event coincident with a high-energy neutrino. <i>Nature Astronomy</i> , <b>2021</b> , 5, 510-518	12.1	41
47	The Old Host-galaxy Environment of SSS17a, the First Electromagnetic Counterpart to a Gravitational-wave Source. <i>Astrophysical Journal Letters</i> , <b>2017</b> , 848, L30	7.9	39
46	K2 Observations of SN 2018oh Reveal a Two-component Rising Light Curve for a Type Ia Supernova. <i>Astrophysical Journal Letters</i> , <b>2019</b> , 870, L1	7.9	38
45	The Foundation Supernova Survey: Measuring Cosmological Parameters with Supernovae from a Single Telescope. <i>Astrophysical Journal</i> , <b>2019</b> , 881, 19	4.7	35
44	Photometric and Spectroscopic Properties of Type Ia Supernova 2018oh with Early Excess Emission from the Kepler 2 Observations. <i>Astrophysical Journal</i> , <b>2019</b> , 870, 12	4.7	34
43	On the progenitor of the Type IIb supernova 2016gkg. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2017</b> , 465, 4650-4657	4.3	34
42	Updated parameter estimates for GW190425 using astrophysical arguments and implications for the electromagnetic counterpart. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2020</b> , 494, 190-198	4.3	28
41	The Unprecedented Properties of the First Electromagnetic Counterpart to a Gravitational-wave Source. <i>Astrophysical Journal Letters</i> , <b>2017</b> , 848, L26	7.9	27

40	The Rise and Fall of ASASSN-18pg: Following a TDE from Early to Late Times. <i>Astrophysical Journal</i> , <b>2020</b> , 898, 161	4.7	25
39	A potential progenitor for the Type Ic supernova 2017ein. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2018</b> , 480, 2072-2084	4.3	25
38	The dusty progenitor star of the Type II supernova 2017eaw. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2018</b> , 481, 2536-2547	4.3	25
37	Discovery and follow-up of ASASSN-19dj: an X-ray and UV luminous TDE in an extreme post-starburst galaxy. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2020</b> , 500, 1673-1696	4.3	24
36	The tidal disruption event AT2017eqx: spectroscopic evolution from hydrogen rich to poor suggests an atmosphere and outflow. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2019</b> , 488, 1878-1893	4.3	24
35	Nebular Spectroscopy of Kepler ̄ Brightest Supernova. <i>Astrophysical Journal Letters</i> , <b>2019</b> , 870, L14	7.9	23
34	The SPIRITS Sample of Luminous Infrared Transients: Uncovering Hidden Supernovae and Dusty Stellar Outbursts in Nearby Galaxies. <i>Astrophysical Journal</i> , <b>2019</b> , 886, 40	4.7	22
33	To TDE or not to TDE: the luminous transient ASASSN-18jd with TDE-like and AGN-like qualities. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2020</b> , 494, 2538-2560	4.3	21
32	First ALMA Light Curve Constrains Refreshed Reverse Shocks and Jet Magnetization in GRB 161219B. <i>Astrophysical Journal</i> , <b>2018</b> , 862, 94	4.7	20
31	Double-peaked Balmer Emission Indicating Prompt Accretion Disk Formation in an X-Ray Faint Tidal Disruption Event. <i>Astrophysical Journal</i> , <b>2020</b> , 903, 31	4.7	20
30	The Broadband Counterpart of the Short GRB 200522A at $z = 0.5536$ : A Luminous Kilonova or a Collimated Outflow with a Reverse Shock?. <i>Astrophysical Journal</i> , <b>2021</b> , 906, 127	4.7	18
29	SN 2019ehk: A Double-peaked Ca-rich Transient with Luminous X-Ray Emission and Shock-ionized Spectral Features. <i>Astrophysical Journal</i> , <b>2020</b> , 898, 166	4.7	17
28	A cool and inflated progenitor candidate for the Type Ib supernova 2019yvr at 2.6 yr before explosion. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2021</b> , 504, 2073-2093	4.3	17
27	Chronicling the Host Galaxy Properties of the Remarkable Repeating FRB 20201124A. <i>Astrophysical Journal Letters</i> , <b>2021</b> , 919, L23	7.9	17
26	SN 2013fs and SN 2013fr: exploring the circumstellar-material diversity in Type II supernovae. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2018</b> , 476, 1497-1518	4.3	16
25	ASASSN-15nx: A Luminous Type II Supernova with a Perfect Linear Decline. <i>Astrophysical Journal</i> , <b>2018</b> , 862, 107	4.7	15
24	Detection of circumstellar helium in Type Iax progenitor systems. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2019</b> , 487, 2538-2577	4.3	13
23	Constraining Type Ia Supernova Progenitor Scenarios with Extremely Late-time Photometry of Supernova SN 2013aa. <i>Astrophysical Journal</i> , <b>2018</b> , 857, 88	4.7	13

22	SN 2013aa and SN 2017cbv: Two Sibling Type Ia Supernovae in the Spiral Galaxy NGC 5643. <i>Astrophysical Journal</i> , <b>2020</b> , 895, 118	4-7	11
21	The Young Supernova Experiment: Survey Goals, Overview, and Operations. <i>Astrophysical Journal</i> , <b>2021</b> , 908, 143	4-7	11
20	Ca hnk: The Calcium-rich Transient Supernova 2016hnk from a Helium Shell Detonation of a Sub-Chandrasekhar White Dwarf. <i>Astrophysical Journal</i> , <b>2020</b> , 896, 165	4-7	10
19	SN 2016esw: a luminous Type II supernova observed within the first day after the explosion. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2018</b> , 478, 3776-3792	4-3	10
18	The slow demise of the long-lived SN 2005ip. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2020</b> , 498, 517-531	4-3	9
17	Deep Optical Observations Contemporaneous with Emission from the Periodic FRB 180916.J0158+65. <i>Astrophysical Journal Letters</i> , <b>2021</b> , 907, L3	7-9	9
16	Late-time Observations of Calcium-rich Transient SN 2019ehk Reveal a Pure Radioactive Decay Power Source. <i>Astrophysical Journal Letters</i> , <b>2021</b> , 908, L32	7-9	7
15	A new and unusual LBV-like outburst from a Wolf-Rayet star in the outskirts of M33. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2020</b> , 492, 5897-5915	4-3	6
14	SN 2019muj is a well-observed Type Ia supernova that bridges the luminosity gap of the class. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2020</b> , 501, 1078-1099	4-3	6
13	Discovery of a Fast Iron Low-ionization Outflow in the Early Evolution of the Nearby Tidal Disruption Event AT 2019qiz. <i>Astrophysical Journal</i> , <b>2021</b> , 917, 9	4-7	6
12	The Gravity Collective: A Search for the Electromagnetic Counterpart to the Neutron Star-Black Hole Merger GW190814. <i>Astrophysical Journal</i> , <b>2021</b> , 923, 258	4-7	6
11	X-ray limits on the progenitor system of the Type Ia supernova 2017ejb. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2018</b> , 481, 4123-4132	4-3	4
10	A Carbon/Oxygen-dominated Atmosphere Days after Explosion for the Super-Chandrasekhar Type Ia SN 2020esm. <i>Astrophysical Journal</i> , <b>2022</b> , 927, 78	4-7	4
9	Final Moments. I. Precursor Emission, Envelope Inflation, and Enhanced Mass Loss Preceding the Luminous Type II Supernova 2020tlf. <i>Astrophysical Journal</i> , <b>2022</b> , 924, 15	4-7	3
8	A DESGW Search for the Electromagnetic Counterpart to the LIGO/Virgo Gravitational-wave Binary Neutron Star Merger Candidate S190510g. <i>Astrophysical Journal</i> , <b>2020</b> , 903, 75	4-7	3
7	Probing Kilonova Ejecta Properties Using a Catalog of Short Gamma-Ray Burst Observations. <i>Astrophysical Journal</i> , <b>2021</b> , 916, 89	4-7	3
6	Evidence for X-Ray Emission in Excess to the Jet-afterglow Decay 3.5 yr after the Binary Neutron Star Merger GW 170817: A New Emission Component. <i>Astrophysical Journal Letters</i> , <b>2022</b> , 927, L17	7-9	2
5	The Early Phases of Supernova 2020pni: Shock Ionization of the Nitrogen-enriched Circumstellar Material. <i>Astrophysical Journal</i> , <b>2022</b> , 926, 20	4-7	1

4	SN2017jgh: a high-cadence complete shock cooling light curve of a SN IIb with the Kepler telescope. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2021</b> , 507, 3125-3138	4-3	1
3	SOAR/Goodman Spectroscopic Assessment of Candidate Counterparts of the LIGO/Virgo Event GW190814*. <i>Astrophysical Journal</i> , <b>2022</b> , 929, 115	4-7	1
2	Hubble Space Telescope Observations of GW170817: Complete Light Curves and the Properties of the Galaxy Merger of NGC 4993. <i>Astrophysical Journal</i> , <b>2022</b> , 926, 49	4-7	0
1	The Foundation Supernova Survey: Photospheric Velocity Correlations in Type Ia Supernovae. <i>Astrophysical Journal</i> , <b>2021</b> , 923, 267	4-7	0