

# Ryan Chornock

## List of Publications by Year in descending order

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105  
papers

17,367  
citations

22132

59  
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29127

104  
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106  
all docs

106  
docs citations

106  
times ranked

8511  
citing authors

#	ARTICLE	IF	CITATIONS
1	Type Ia Supernova Discoveries at $z > 1$ from the Hubble Space Telescope: Evidence for Past Deceleration and Constraints on Dark Energy Evolution. <i>Astrophysical Journal</i> , 2004, 607, 665-687.	1.6	3,498
2	The Complete Light-curve Sample of Spectroscopically Confirmed SNe Ia from Pan-STARRS1 and Cosmological Constraints from the Combined Pantheon Sample. <i>Astrophysical Journal</i> , 2018, 859, 101.	1.6	1,694
3	The Electromagnetic Counterpart of the Binary Neutron Star Merger LIGO/Virgo GW170817. II. UV, Optical, and Near-infrared Light Curves and Comparison to Kilonova Models. <i>Astrophysical Journal Letters</i> , 2017, 848, L17.	3.0	656
4	SN 2006gy: Discovery of the Most Luminous Supernova Ever Recorded, Powered by the Death of an Extremely Massive Star like $\hat{\iota}$ Carinae. <i>Astrophysical Journal</i> , 2007, 666, 1116-1128.	1.6	460
5	Nearby supernova rates from the Lick Observatory Supernova Search - III. The rate-size relation, and the rates as a function of galaxy Hubble type and colour. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 412, 1473-1507.	1.6	458
6	Supernova 2007bi as a pair-instability explosion. <i>Nature</i> , 2009, 462, 624-627.	13.7	399
7	AN $r$ -PROCESS KILONOVA ASSOCIATED WITH THE SHORT-HARD GRB 130603B. <i>Astrophysical Journal Letters</i> , 2013, 774, L23.	3.0	399
8	The Electromagnetic Counterpart of the Binary Neutron Star Merger LIGO/Virgo GW170817. I. Discovery of the Optical Counterpart Using the Dark Energy Camera. <i>Astrophysical Journal Letters</i> , 2017, 848, L16.	3.0	392
9	The Electromagnetic Counterpart of the Binary Neutron Star Merger LIGO/Virgo GW170817. IV. Detection of Near-infrared Signatures of $r$ -process Nucleosynthesis with Gemini-South. <i>Astrophysical Journal Letters</i> , 2017, 848, L19.	3.0	390
10	An ultraviolet "optical flare from the tidal disruption of a helium-rich stellar core. <i>Nature</i> , 2012, 485, 217-220.	13.7	373
11	The Combined Ultraviolet, Optical, and Near-infrared Light Curves of the Kilonova Associated with the Binary Neutron Star Merger GW170817: Unified Data Set, Analytic Models, and Physical Implications. <i>Astrophysical Journal Letters</i> , 2017, 851, L21.	3.0	369
12	The Electromagnetic Counterpart of the Binary Neutron Star Merger LIGO/Virgo GW170817. III. Optical and UV Spectra of a Blue Kilonova from Fast Polar Ejecta. <i>Astrophysical Journal Letters</i> , 2017, 848, L18.	3.0	327
13	Birth of a relativistic outflow in the unusual $\hat{\iota}^3$ -ray transient Swift J164449.3+573451. <i>Nature</i> , 2011, 476, 425-428.	13.7	326
14	The Electromagnetic Counterpart of the Binary Neutron Star Merger LIGO/Virgo GW170817. V. Rising X-Ray Emission from an Off-axis Jet. <i>Astrophysical Journal Letters</i> , 2017, 848, L20.	3.0	313
15	The Electromagnetic Counterpart of the Binary Neutron Star Merger LIGO/Virgo GW170817. VI. Radio Constraints on a Relativistic Jet and Predictions for Late-time Emission from the Kilonova Ejecta. <i>Astrophysical Journal Letters</i> , 2017, 848, L21.	3.0	266
16	COSMOLOGICAL CONSTRAINTS FROM MEASUREMENTS OF TYPE Ia SUPERNOVAE DISCOVERED DURING THE FIRST 1.5 yr OF THE Pan-STARRS1 SURVEY. <i>Astrophysical Journal</i> , 2014, 795, 44.	1.6	262
17	The Binary Neutron Star Event LIGO/Virgo GW170817 160 Days after Merger: Synchrotron Emission across the Electromagnetic Spectrum. <i>Astrophysical Journal Letters</i> , 2018, 856, L18.	3.0	258
18	RAPIDLY EVOLVING AND LUMINOUS TRANSIENTS FROM PAN-STARRS1. <i>Astrophysical Journal</i> , 2014, 794, 23.	1.6	254

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19	The Type I[CLC]c[/CLC] Hypernova SN 2002[CLC]ap[/CLC]. <i>Astrophysical Journal</i> , 2002, 572, L61-L65.	1.6	250
20	Slowly fading super-luminous supernovae that are not pair-instability explosions. <i>Nature</i> , 2013, 502, 346-349.	13.7	226
21	HYDROGEN-POOR SUPERLUMINOUS SUPERNOVAE AND LONG-DURATION GAMMA-RAY BURSTS HAVE SIMILAR HOST GALAXIES. <i>Astrophysical Journal</i> , 2014, 787, 138.	1.6	221
22	SN 2006tf: Precursor Eruptions and the Optically Thick Regime of Extremely Luminous Type IIn Supernovae. <i>Astrophysical Journal</i> , 2008, 686, 467-484.	1.6	195
23	Pan-STARRS1 DISCOVERY OF TWO ULTRALUMINOUS SUPERNOVAE AT $z < 0.9$ . <i>Astrophysical Journal</i> , 2011, 743, 114.	1.6	168
24	THE ULTRAVIOLET-BRIGHT, SLOWLY DECLINING TRANSIENT PS1-11af AS A PARTIAL TIDAL DISRUPTION EVENT. <i>Astrophysical Journal</i> , 2014, 780, 44.	1.6	166
25	An Embedded X-Ray Source Shines through the Aspherical AT2018cow: Revealing the Inner Workings of the Most Luminous Fast-evolving Optical Transients. <i>Astrophysical Journal</i> , 2019, 872, 18.	1.6	160
26	HIGH-DENSITY CIRCUMSTELLAR INTERACTION IN THE LUMINOUS TYPE IIn SN 2010jl: THE FIRST 1100 DAYS. <i>Astrophysical Journal</i> , 2014, 797, 118.	1.6	159
27	DEMOGRAPHICS OF THE GALAXIES HOSTING SHORT-DURATION GAMMA-RAY BURSTS. <i>Astrophysical Journal</i> , 2013, 769, 56.	1.6	152
28	SPECTRAL EVOLUTION OF THE EXTRAORDINARY TYPE IIn SUPERNOVA 2006gy. <i>Astrophysical Journal</i> , 2010, 709, 856-883.	1.6	149
29	TOWARD CHARACTERIZATION OF THE TYPE IIP SUPERNOVA PROGENITOR POPULATION: A STATISTICAL SAMPLE OF LIGHT CURVES FROM Pan-STARRS1. <i>Astrophysical Journal</i> , 2015, 799, 208.	1.6	149
30	Nearby supernova rates from the Lick Observatory Supernova Search - I. The methods and data base. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 412, 1419-1440.	1.6	143
31	SHORT GRB 130603B: DISCOVERY OF A JET BREAK IN THE OPTICAL AND RADIO AFTERGLOWS, AND A MYSTERIOUS LATE-TIME X-RAY EXCESS. <i>Astrophysical Journal</i> , 2014, 780, 118.	1.6	142
32	A Decline in the X-Ray through Radio Emission from GW170817 Continues to Support an Off-axis Structured Jet. <i>Astrophysical Journal Letters</i> , 2018, 863, L18.	3.0	138
33	SN 2015bn: A DETAILED MULTI-WAVELENGTH VIEW OF A NEARBY SUPERLUMINOUS SUPERNOVA. <i>Astrophysical Journal</i> , 2016, 826, 39.	1.6	133
34	Ejection of the Massive Hydrogen-rich Envelope Timed with the Collapse of the Stripped SN 2014C. <i>Astrophysical Journal</i> , 2017, 835, 140.	1.6	129
35	PS16dtm: A Tidal Disruption Event in a Narrow-line Seyfert 1 Galaxy. <i>Astrophysical Journal</i> , 2017, 843, 106.	1.6	125
36	Two Years of Nonthermal Emission from the Binary Neutron Star Merger GW170817: Rapid Fading of the Jet Afterglow and First Constraints on the Kilonova Fastest Ejecta. <i>Astrophysical Journal Letters</i> , 2019, 886, L17.	3.0	117

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37	An Unusually Fast-Evolving Supernova. <i>Science</i> , 2010, 327, 58-60.	6.0	116
38	Measuring Dark Energy Properties with Photometrically Classified Pan-STARRS Supernovae. II. Cosmological Parameters. <i>Astrophysical Journal</i> , 2018, 857, 51.	1.6	116
39	A REVERSE SHOCK IN GRB 130427A. <i>Astrophysical Journal</i> , 2013, 776, 119.	1.6	108
40	The Electromagnetic Counterpart of the Binary Neutron Star Merger LIGO/Virgo GW170817. VII. Properties of the Host Galaxy and Constraints on the Merger Timescale. <i>Astrophysical Journal Letters</i> , 2017, 848, L22.	3.0	107
41	METAMORPHOSIS OF SN 2014C: DELAYED INTERACTION BETWEEN A HYDROGEN POOR CORE-COLLAPSE SUPERNOVA AND A NEARBY CIRCUMSTELLAR SHELL. <i>Astrophysical Journal</i> , 2015, 815, 120.	1.6	105
42	The Electromagnetic Counterpart of the Binary Neutron Star Merger LIGO/Virgo GW170817. VIII. A Comparison to Cosmological Short-duration Gamma-Ray Bursts. <i>Astrophysical Journal Letters</i> , 2017, 848, L23.	3.0	103
43	A JET BREAK IN THE X-RAY LIGHT CURVE OF SHORT GRB 111020A: IMPLICATIONS FOR ENERGETICS AND RATES. <i>Astrophysical Journal</i> , 2012, 756, 189.	1.6	101
44	A Precise Distance to the Host Galaxy of the Binary Neutron Star Merger GW170817 Using Surface Brightness Fluctuations. <i>Astrophysical Journal Letters</i> , 2018, 854, L31.	3.0	99
45	The Katzman Automatic Imaging Telescope Gamma-Ray Burst Alert System, and Observations of GRB 020813. <i>Publications of the Astronomical Society of the Pacific</i> , 2003, 115, 844-853.	1.0	91
46	Hydrogen-poor Superluminous Supernovae from the Pan-STARRS1 Medium Deep Survey. <i>Astrophysical Journal</i> , 2018, 852, 81.	1.6	88
47	SUPERLUMINOUS SUPERNOVA SN 2015bn IN THE NEBULAR PHASE: EVIDENCE FOR THE ENGINE-POWERED EXPLOSION OF A STRIPPED MASSIVE STAR. <i>Astrophysical Journal Letters</i> , 2016, 828, L18.	3.0	88
48	GRB 090426: the environment of a rest-frame 0.35-s gamma-ray burst at a redshift of 2.609. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 401, 963-972.	1.6	86
49	ZOOMING IN ON THE PROGENITORS OF SUPERLUMINOUS SUPERNOVAE WITH THE HST. <i>Astrophysical Journal</i> , 2015, 804, 90.	1.6	86
50	Improved Constraints on $H_0$ from a Combined Analysis of Gravitational-wave and Electromagnetic Emission from GW170817. <i>Astrophysical Journal Letters</i> , 2017, 851, L36.	3.0	85
51	SN 2012au: A GOLDEN LINK BETWEEN SUPERLUMINOUS SUPERNOVAE AND THEIR LOWER-LUMINOSITY COUNTERPARTS. <i>Astrophysical Journal Letters</i> , 2013, 770, L38.	3.0	71
52	The Optical Afterglow of GW170817: An Off-axis Structured Jet and Deep Constraints on a Globular Cluster Origin. <i>Astrophysical Journal Letters</i> , 2019, 883, L1.	3.0	69
53	PS1-14bj: A HYDROGEN-POOR SUPERLUMINOUS SUPERNOVA WITH A LONG RISE AND SLOW DECAY. <i>Astrophysical Journal</i> , 2016, 831, 144.	1.6	68
54	The Foundation Supernova Survey: Measuring Cosmological Parameters with Supernovae from a Single Telescope. <i>Astrophysical Journal</i> , 2019, 881, 19.	1.6	67

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55	Identification of Type Ia Supernovae at Redshift 1.3 and Beyond with the Advanced Camera for Surveys on the Hubble Space Telescope. <i>Astrophysical Journal</i> , 2004, 600, L163-L166.	1.6	66
56	First Multimessenger Observations of a Neutron Star Merger. <i>Annual Review of Astronomy and Astrophysics</i> , 2021, 59, 155-202.	8.1	66
57	An Ultraviolet Excess in the Superluminous Supernova Gaia16apd Reveals a Powerful Central Engine. <i>Astrophysical Journal Letters</i> , 2017, 835, L8.	3.0	63
58	Follow-up of the Neutron Star Bearing Gravitational-wave Candidate Events S190425z and S190426c with MMT and SOAR. <i>Astrophysical Journal Letters</i> , 2019, 880, L4.	3.0	63
59	THE AFTERGLOW AND EARLY-TYPE HOST GALAXY OF THE SHORT GRB 150101B AT $z=0.1343$ . <i>Astrophysical Journal</i> , 2016, 833, 151.	1.6	62
60	How Many Kilonovae Can Be Found in Past, Present, and Future Survey Data Sets?. <i>Astrophysical Journal Letters</i> , 2018, 852, L3.	3.0	60
61	PS1-10afx AT $z=1.388$ : PAN-STARRS1 DISCOVERY OF A NEW TYPE OF SUPERLUMINOUS SUPERNOVA. <i>Astrophysical Journal</i> , 2013, 767, 162.	1.6	56
62	THE OPTICAL AFTERGLOW AND $z=0.92$ EARLY-TYPE HOST GALAXY OF THE SHORT GRB 100117A. <i>Astrophysical Journal</i> , 2011, 730, 26.	1.6	53
63	DISPLAYING THE HETEROGENEITY OF THE SN 2002cx-LIKE SUBCLASS OF TYPE Ia SUPERNOVAE WITH OBSERVATIONS OF THE Pan-STARRS-1 DISCOVERED SN 2009ku. <i>Astrophysical Journal Letters</i> , 2011, 731, L11.	3.0	52
64	X-Rays from the Location of the Double-humped Transient ASASSN-15lh. <i>Astrophysical Journal</i> , 2017, 836, 25.	1.6	51
65	Nebular-phase Spectra of Superluminous Supernovae: Physical Insights from Observational and Statistical Properties. <i>Astrophysical Journal</i> , 2019, 871, 102.	1.6	51
66	A Galaxy-targeted Search for the Optical Counterpart of the Candidate NS-BH Merger S190814bv with Magellan. <i>Astrophysical Journal Letters</i> , 2019, 884, L55.	3.0	50
67	PS1-12sk IS A PECULIAR SUPERNOVA FROM A He-RICH PROGENITOR SYSTEM IN A BRIGHTEST CLUSTER GALAXY ENVIRONMENT. <i>Astrophysical Journal</i> , 2013, 769, 39.	1.6	47
68	Measuring the Properties of Dark Energy with Photometrically Classified Pan-STARRS Supernovae. I. Systematic Uncertainty from Core-collapse Supernova Contamination. <i>Astrophysical Journal</i> , 2017, 843, 6.	1.6	47
69	Results from a Systematic Survey of X-Ray Emission from Hydrogen-poor Superluminous SNe. <i>Astrophysical Journal</i> , 2018, 864, 45.	1.6	47
70	The fraction of ionizing radiation from massive stars that escapes to the intergalactic medium. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 483, 5380-5408.	1.6	43
71	SuperRAENN: A Semisupervised Supernova Photometric Classification Pipeline Trained on Pan-STARRS1 Medium-Deep Survey Supernovae. <i>Astrophysical Journal</i> , 2020, 905, 94.	1.6	43
72	THE AFTERGLOW AND ULIRG HOST GALAXY OF THE DARK SHORT GRB 120804A. <i>Astrophysical Journal</i> , 2013, 765, 121.	1.6	41

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73	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> , 2022, 927, L17.	3.0	41
74	NEW OBSERVATIONS OF THE VERY LUMINOUS SUPERNOVA 2006gy: EVIDENCE FOR ECHOES. <i>Astronomical Journal</i> , 2010, 139, 2218-2229.	1.9	40
75	PS1-10jh CONTINUES TO FOLLOW THE FALLBACK ACCRETION RATE OF A TIDALLY DISRUPTED STAR. <i>Astrophysical Journal Letters</i> , 2015, 815, L5.	3.0	40
76	A Reverse Shock in GRB 181201A. <i>Astrophysical Journal</i> , 2019, 884, 121.	1.6	37
77	One Thousand Days of SN2015bn: HST Imaging Shows a Light Curve Flattening Consistent with Magnetar Predictions. <i>Astrophysical Journal Letters</i> , 2018, 866, L24.	3.0	34
78	Supernova Photometric Classification Pipelines Trained on Spectroscopically Classified Supernovae from the Pan-STARRS1 Medium-deep Survey. <i>Astrophysical Journal</i> , 2019, 884, 83.	1.6	33
79	Radio Observations of an Ordinary Outflow from the Tidal Disruption Event AT2019dsg. <i>Astrophysical Journal</i> , 2021, 919, 127.	1.6	33
80	An extremely energetic supernova from a very massive star in a dense medium. <i>Nature Astronomy</i> , 2020, 4, 893-899.	4.2	31
81	THE INTERMEDIATE LUMINOSITY OPTICAL TRANSIENT SN 2010DA: THE PROGENITOR, ERUPTION, AND AFTERMATH OF A PECULIAR SUPERGIANT HIGH-MASS X-RAY BINARY. <i>Astrophysical Journal</i> , 2016, 830, 11.	1.6	30
82	Jets in Hydrogen-poor Superluminous Supernovae: Constraints from a Comprehensive Analysis of Radio Observations. <i>Astrophysical Journal</i> , 2018, 856, 56.	1.6	30
83	Spitzer Space Telescope Infrared Observations of the Binary Neutron Star Merger GW170817. <i>Astrophysical Journal Letters</i> , 2018, 862, L11.	3.0	30
84	Radio and X-Ray Observations of the Luminous Fast Blue Optical Transient AT 2020xnd. <i>Astrophysical Journal</i> , 2022, 926, 112.	1.6	29
85	SN 2016iet: The Pulsational or Pair Instability Explosion of a Low-metallicity Massive CO Core Embedded in a Dense Hydrogen-poor Circumstellar Medium. <i>Astrophysical Journal</i> , 2019, 881, 87.	1.6	28
86	The Type I Superluminous Supernova PS16aqv: Lightcurve Complexity and Deep Limits on Radioactive Ejecta in a Fast Event. <i>Astrophysical Journal</i> , 2018, 865, 9.	1.6	25
87	Cosmological Results from the RAISIN Survey: Using Type Ia Supernovae in the Near Infrared as a Novel Path to Measure the Dark Energy Equation of State. <i>Astrophysical Journal</i> , 2022, 933, 172.	1.6	25
88	Discovery of the Optical Afterglow and Host Galaxy of Short GRB 181123B at $z=1.754$ : Implications for Delay Time Distributions. <i>Astrophysical Journal Letters</i> , 2020, 898, L32.	3.0	24
89	A Hydrogen-poor Superluminous Supernova with Enhanced Iron-group Absorption: A New Link between SLSNe and Broad-lined Type Ic SNe. <i>Astrophysical Journal</i> , 2019, 872, 90.	1.6	23
90	Target-of-opportunity Observations of Gravitational-wave Events with Vera C. Rubin Observatory. <i>Astrophysical Journal</i> , Supplement Series, 2022, 260, 18.	3.0	21

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91	A VLA Study of High-redshift GRBs. I. Multiwavelength Observations and Modeling of GRB 140311A. <i>Astrophysical Journal</i> , 2018, 858, 65.	1.6	20
92	Probing Kilonova Ejecta Properties Using a Catalog of Short Gamma-Ray Burst Observations. <i>Astrophysical Journal</i> , 2021, 916, 89.	1.6	20
93	The Distant, Galaxy Cluster Environment of the Short GRB 161104A at $z \approx 0.8$ and a Comparison to the Short GRB Host Population. <i>Astrophysical Journal</i> , 2020, 904, 52.	1.6	17
94	Hubble Space Telescope Observations of GW170817: Complete Light Curves and the Properties of the Galaxy Merger of NGC 4993. <i>Astrophysical Journal</i> , 2022, 926, 49.	1.6	16
95	A Late-time Galaxy-targeted Search for the Radio Counterpart of GW190814. <i>Astrophysical Journal</i> , 2021, 923, 66.	1.6	16
96	Photometric Classification of 2315 Pan-STARRS1 Supernovae with Superphot. <i>Astrophysical Journal</i> , 2020, 905, 93.	1.6	15
97	A Search for Optical Emission from Binary Black Hole Merger GW170814 with the Dark Energy Camera. <i>Astrophysical Journal Letters</i> , 2019, 873, L24.	3.0	14
98	Where is the Engine Hiding Its Missing Energy? Constraints from a Deep X-Ray Non-detection of the Superluminous SN 2015bn*. <i>Astrophysical Journal Letters</i> , 2018, 868, L32.	3.0	13
99	The Type II superluminous SN 2008es at late times: near-infrared excess and circumstellar interaction. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 488, 3783-3793.	1.6	12
100	ALMA and NOEMA constraints on synchrotron nebular emission from embryonic superluminous supernova remnants and radio- $\gamma$ connection. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 44-51.	1.6	11
101	An Empirical Study of Contamination in Deep, Rapid, and Wide-field Optical Follow-up of Gravitational Wave Events. <i>Astrophysical Journal</i> , 2018, 858, 18.	1.6	10
102	Galaxy morphology prediction using Capsule Networks. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 486, 1539-1547.	1.6	10
103	Late-time Hubble Space Telescope Observations of a Hydrogen-poor Superluminous Supernova Reveal the Power-law Decline of a Magnetar Central Engine. <i>Astrophysical Journal</i> , 2021, 921, 64.	1.6	6
104	Keck Observations of Candidate Ultra-Luminous X-ray Sources. <i>Proceedings of the International Astronomical Union</i> , 2005, 1, 306-307.	0.0	1
105	GRB 021004: A Possible Shell Nebula around a Wolf-Rayet Star Gamma-Ray Burst Progenitor. <i>AIP Conference Proceedings</i> , 2004, , .	0.3	0