

Ryan Chornock

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.

103 papers	13,538 citations	54 h-index	106 g-index
106 ext. papers	15,340 ext. citations	7.8 avg, IF	5.66 L-index

#	Paper	IF	Citations
103	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	4.7	0
102	Radio and X-Ray Observations of the Luminous Fast Blue Optical Transient AT 2020xnd. <i>Astrophysical Journal</i> , 2022 , 926, 112	4.7	6
101	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	7.9	2
100	Target-of-opportunity Observations of Gravitational-wave Events with Vera C. Rubin Observatory. <i>Astrophysical Journal, Supplement Series</i> , 2022 , 260, 18	8	2
99	Radio Observations of an Ordinary Outflow from the Tidal Disruption Event AT2019dsg. <i>Astrophysical Journal</i> , 2021 , 919, 127	4.7	6
98	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	4.7	1
97	Probing Kilonova Ejecta Properties Using a Catalog of Short Gamma-Ray Burst Observations. <i>Astrophysical Journal</i> , 2021 , 916, 89	4.7	3
96	ALMA and NOEMA constraints on synchrotron nebular emission from embryonic superluminous supernova remnants and radio- γ connection. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 508, 44-51	4.3	6
95	First Multimessenger Observations of a Neutron Star Merger. <i>Annual Review of Astronomy and Astrophysics</i> , 2021 , 59, 155-202	31.7	13
94	A Late-time Galaxy-targeted Search for the Radio Counterpart of GW190814. <i>Astrophysical Journal</i> , 2021 , 923, 66	4.7	6
93	An extremely energetic supernova from a very massive star in a dense medium. <i>Nature Astronomy</i> , 2020 , 4, 893-899	12.1	19
92	The Distant, Galaxy Cluster Environment of the Short GRB 161104A at $z \sim 0.8$ and a Comparison to the Short GRB Host Population. <i>Astrophysical Journal</i> , 2020 , 904, 52	4.7	9
91	Photometric Classification of 2315 Pan-STARRS1 Supernovae with Superphot. <i>Astrophysical Journal</i> , 2020 , 905, 93	4.7	5
90	SuperRAENN: A Semisupervised Supernova Photometric Classification Pipeline Trained on Pan-STARRS1 Medium-Deep Survey Supernovae. <i>Astrophysical Journal</i> , 2020 , 905, 94	4.7	17
89	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	7.9	13
88	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	4.3	6
87	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	4.3	32

86	Nebular-phase Spectra of Superluminous Supernovae: Physical Insights from Observational and Statistical Properties. <i>Astrophysical Journal</i> , 2019 , 871, 102	4.7	35
85	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	4.7	16
84	Galaxy morphology prediction using Capsule Networks. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 486, 1539-1547	4.3	6
83	An Embedded X-Ray Source Shines through the Aspherical AT 2018cow: Revealing the Inner Workings of the Most Luminous Fast-evolving Optical Transients. <i>Astrophysical Journal</i> , 2019 , 872, 18	4.7	108
82	A Search for Optical Emission from Binary Black Hole Merger GW170814 with the Dark Energy Camera. <i>Astrophysical Journal Letters</i> , 2019 , 873, L24	7.9	12
81	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	4.7	16
80	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	7.9	46
79	The Foundation Supernova Survey: Measuring Cosmological Parameters with Supernovae from a Single Telescope. <i>Astrophysical Journal</i> , 2019 , 881, 19	4.7	35
78	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	7.9	42
77	Supernova Photometric Classification Pipelines Trained on Spectroscopically Classified Supernovae from the Pan-STARRS1 Medium-deep Survey. <i>Astrophysical Journal</i> , 2019 , 884, 83	4.7	14
76	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	7.9	74
75	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	7.9	34
74	A Reverse Shock in GRB 181201A. <i>Astrophysical Journal</i> , 2019 , 884, 121	4.7	16
73	Measuring Dark Energy Properties with Photometrically Classified Pan-STARRS Supernovae. II. Cosmological Parameters. <i>Astrophysical Journal</i> , 2018 , 857, 51	4.7	80
72	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	7.9	206
71	How Many Kilonovae Can Be Found in Past, Present, and Future Survey Data Sets?. <i>Astrophysical Journal Letters</i> , 2018 , 852, L3	7.9	42
70	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	4.7	10
69	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	7.9	74

68	Spitzer Space Telescope Infrared Observations of the Binary Neutron Star Merger GW170817. <i>Astrophysical Journal Letters</i> , 2018 , 862, L11	7.9	21
67	A VLA Study of High-redshift GRBs. I. Multiwavelength Observations and Modeling of GRB 140311A. <i>Astrophysical Journal</i> , 2018 , 858, 65	4.7	12
66	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	4.7	946
65	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	4.7	22
64	Results from a Systematic Survey of X-Ray Emission from Hydrogen-poor Superluminous SNe. <i>Astrophysical Journal</i> , 2018 , 864, 45	4.7	34
63	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	7.9	104
62	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	7.9	10
61	One Thousand Days of SN2015bn: HST Imaging Shows a Light Curve Flattening Consistent with Magnetar Predictions. <i>Astrophysical Journal Letters</i> , 2018 , 866, L24	7.9	25
60	Jets in Hydrogen-poor Superluminous Supernovae: Constraints from a Comprehensive Analysis of Radio Observations. <i>Astrophysical Journal</i> , 2018 , 856, 56	4.7	27
59	Hydrogen-poor Superluminous Supernovae from the Pan-STARRS1 Medium Deep Survey. <i>Astrophysical Journal</i> , 2018 , 852, 81	4.7	68
58	Ejection of the Massive Hydrogen-rich Envelope Timed with the Collapse of the Stripped SN 2014C. <i>Astrophysical Journal</i> , 2017 , 835,	4.7	92
57	X-Rays from the Location of the Double-humped Transient ASASSN-15lh. <i>Astrophysical Journal</i> , 2017 , 836,	4.7	45
56	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	7.9	468
55	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	7.9	239
54	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	7.9	274
53	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	7.9	245
52	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	7.9	84
51	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	7.9	88

50	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	7.9	295
49	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	7.9	202
48	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	4.7	33
47	PS16dtm: A Tidal Disruption Event in a Narrow-line Seyfert 1 Galaxy. <i>Astrophysical Journal</i> , 2017 , 843, 106	4.7	82
46	An Ultraviolet Excess in the Superluminous Supernova Gaia16apd Reveals a Powerful Central Engine. <i>Astrophysical Journal Letters</i> , 2017 , 835, L8	7.9	54
45	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	7.9	251
44	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	7.9	62
43	PS1-14bj: A HYDROGEN-POOR SUPERLUMINOUS SUPERNOVA WITH A LONG RISE AND SLOW DECAY. <i>Astrophysical Journal</i> , 2016 , 831, 144	4.7	60
42	THE AFTERGLOW AND EARLY-TYPE HOST GALAXY OF THE SHORT GRB 150101B AT $z = 0.1343$. <i>Astrophysical Journal</i> , 2016 , 833, 151	4.7	46
41	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	4.7	23
40	SN 2015bn: A DETAILED MULTI-WAVELENGTH VIEW OF A NEARBY SUPERLUMINOUS SUPERNOVA. <i>Astrophysical Journal</i> , 2016 , 826, 39	4.7	102
39	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	7.9	64
38	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	4.7	130
37	ZOOMING IN ON THE PROGENITORS OF SUPERLUMINOUS SUPERNOVAE WITH THEHST. <i>Astrophysical Journal</i> , 2015 , 804, 90	4.7	72
36	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	4.7	82
35	PS1-10jh CONTINUES TO FOLLOW THE FALLBACK ACCRETION RATE OF A TIDALLY DISRUPTED STAR. <i>Astrophysical Journal Letters</i> , 2015 , 815, L5	7.9	32
34	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	4.7	216
33	RAPIDLY EVOLVING AND LUMINOUS TRANSIENTS FROM PAN-STARRS1. <i>Astrophysical Journal</i> , 2014 , 794, 23	4.7	192

32	HYDROGEN-POOR SUPERLUMINOUS SUPERNOVAE AND LONG-DURATION GAMMA-RAY BURSTS HAVE SIMILAR HOST GALAXIES. <i>Astrophysical Journal</i> , 2014 , 787, 138	4.7	186
31	THE ULTRAVIOLET-BRIGHT, SLOWLY DECLINING TRANSIENT PS1-11af AS A PARTIAL TIDAL DISRUPTION EVENT. <i>Astrophysical Journal</i> , 2014 , 780, 44	4.7	144
30	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	4.7	127
29	HIGH-DENSITY CIRCUMSTELLAR INTERACTION IN THE LUMINOUS TYPE II _n SN 2010jl: THE FIRST 1100 DAYS. <i>Astrophysical Journal</i> , 2014 , 797, 118	4.7	126
28	SN 2012au: A GOLDEN LINK BETWEEN SUPERLUMINOUS SUPERNOVAE AND THEIR LOWER-LUMINOSITY COUNTERPARTS. <i>Astrophysical Journal Letters</i> , 2013 , 770, L38	7.9	58
27	Slowly fading super-luminous supernovae that are not pair-instability explosions. <i>Nature</i> , 2013 , 502, 346-349	9.4	197
26	DEMOGRAPHICS OF THE GALAXIES HOSTING SHORT-DURATION GAMMA-RAY BURSTS. <i>Astrophysical Journal</i> , 2013 , 769, 56	4.7	130
25	A REVERSE SHOCK IN GRB 130427A. <i>Astrophysical Journal</i> , 2013 , 776, 119	4.7	93
24	PS1-10afx AT _z = 1.388: PAN-STARRS1 DISCOVERY OF A NEW TYPE OF SUPERLUMINOUS SUPERNOVA. <i>Astrophysical Journal</i> , 2013 , 767, 162	4.7	51
23	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	4.7	40
22	AN r -PROCESS KILONOVA ASSOCIATED WITH THE SHORT-HARD GRB 130603B. <i>Astrophysical Journal Letters</i> , 2013 , 774, L23	7.9	340
21	THE AFTERGLOW AND ULIRG HOST GALAXY OF THE DARK SHORT GRB 120804A. <i>Astrophysical Journal</i> , 2013 , 765, 121	4.7	30
20	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	4.7	91
19	An ultraviolet-optical flare from the tidal disruption of a helium-rich stellar core. <i>Nature</i> , 2012 , 485, 217-220	9.4	313
18	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	7.9	47
17	THE OPTICAL AFTERGLOW AND $z = 0.92$ EARLY-TYPE HOST GALAXY OF THE SHORT GRB 100117A. <i>Astrophysical Journal</i> , 2011 , 730, 26	4.7	46
16	Pan-STARRS1 DISCOVERY OF TWO ULTRALUMINOUS SUPERNOVAE AT $z \approx 0.9$. <i>Astrophysical Journal</i> , 2011 , 743, 114	4.7	150
15	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	4.3	125

14	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	4.3	397
13	Birth of a relativistic outflow in the unusual Day transient Swift J164449.3+573451. <i>Nature</i> , 2011 , 476, 425-8	50.4	275
12	GRB090426: 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	4.3	71
11	NEW OBSERVATIONS OF THE VERY LUMINOUS SUPERNOVA 2006gy: EVIDENCE FOR ECHOES. <i>Astronomical Journal</i> , 2010 , 139, 2218-2229	4.9	35
10	An unusually fast-evolving supernova. <i>Science</i> , 2010 , 327, 58-60	33.3	98
9	SPECTRAL EVOLUTION OF THE EXTRAORDINARY TYPE II _n SUPERNOVA 2006gy. <i>Astrophysical Journal</i> , 2010 , 709, 856-883	4.7	137
8	Supernova 2007bi as a pair-instability explosion. <i>Nature</i> , 2009 , 462, 624-7	50.4	343
7	SN 2006tf: Precursor Eruptions and the Optically Thick Regime of Extremely Luminous Type II _n Supernovae. <i>Astrophysical Journal</i> , 2008 , 686, 467-484	4.7	176
6	SN 2006gy: Discovery of the Most Luminous Supernova Ever Recorded, Powered by the Death of an Extremely Massive Star like η Carinae. <i>Astrophysical Journal</i> , 2007 , 666, 1116-1128	4.7	416
5	Keck Observations of Candidate Ultra-Luminous X-ray Sources. <i>Proceedings of the International Astronomical Union</i> , 2005 , 1, 306-307	0.1	1
4	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	4.7	3108
3	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	4.7	64
2	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	5	74
1	The Type I[CLC]c[/CLC] Hypernova SN 2002[CLC]ap[/CLC]. <i>Astrophysical Journal</i> , 2002 , 572, L61-L65	4.7	233