David N Burrows

List of Publications by Year
in descending order

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65 papers	4,848 citations	201575 27 h-index	175177 52 g-index
65 all docs	65 docs citations	65 times ranked	4777 citing authors

#	Article	IF	Citations
1	The Swift X-Ray Telescope. Space Science Reviews, 2005, 120, 165-195.	3.7	1,940
2	Physical Processes Shaping Gammaâ€Ray Burst Xâ€Ray Afterglow Light Curves: Theoretical Implications from theSwiftXâ€Ray Telescope Observations. Astrophysical Journal, 2006, 642, 354-370.	1.6	829
3	Determination of confidence limits for experiments with low numbers of counts. Astrophysical Journal, 1991, 374, 344.	1.6	389
4	A Comprehensive Analysis ofSwiftXRT Data. III. Jet Break Candidates in Xâ€Ray and Optical Afterglow Light Curves. Astrophysical Journal, 2008, 675, 528-552.	1.6	171
5	Jet Breaks in Short Gammaâ€Ray Bursts. II. The Collimated Afterglow of GRB 051221A. Astrophysical Journal, 2006, 653, 468-473.	1.6	131
6	The X-Ray Remnant of SN 1987A. Astrophysical Journal, 2000, 543, L149-L152.	1.6	86
7	High Angular Resolution ALMA Images of Dust and Molecules in the SN 1987A Ejecta. Astrophysical Journal, 2019, 886, 51.	1.6	71
8	Swift spectra of AT2018cow: a white dwarf tidal disruption event?. Monthly Notices of the Royal Astronomical Society, 2019, 487, 2505-2521.	1.6	63
9	The Xâ€Ray Spectrum of Supernova Remnant 1987A. Astrophysical Journal, 2002, 574, 166-178.	1.6	61
10	The Structure of the Oxygen-rich Supernova Remnant G292.0+1.8 from [ITAL]Chandra[/ITAL] X-Ray Images: Shocked Ejecta and Circumstellar Medium. Astrophysical Journal, 2002, 564, L39-L43.	1.6	61
11	Monitoring the Evolution of the Xâ€Ray Remnant of SN 1987A. Astrophysical Journal, 2002, 567, 314-322.	1.6	58
12	AN ANALYSIS OFCHANDRADEEP FOLLOW-UP GAMMA-RAY BURSTS: IMPLICATIONS FOR OFF-AXIS JETS. Astrophysical Journal, 2015, 806, 15.	1.6	57
13	A Half-Megasecond Chandra Observation of the Oxygen-rich Supernova Remnant G292.0+1.8. Astrophysical Journal, 2007, 670, L121-L124.	1.6	56
14	AChandraView of the Morphological and Spectral Evolution of Supernova Remnant 1987A. Astrophysical Journal, 2004, 610, 275-284.	1.6	55
15	CHANDRA OBSERVES THE END OF AN ERA IN SN 1987A. Astrophysical Journal, 2016, 829, 40.	1.6	53
16	FIVE YEARS OF MID-INFRARED EVOLUTION OF THE REMNANT OF SN 1987A: THE ENCOUNTER BETWEEN THE BLAST WAVE AND THE DUSTY EQUATORIAL RING. Astrophysical Journal, 2010, 722, 425-434.	1.6	51
17	Nucleosynthesis in the Oxygen-rich Supernova Remnant G292.0+1.8 from Chandra X-Ray Spectroscopy. Astrophysical Journal, 2004, 602, L33-L36.	1.6	50
18	AN X-RAY STUDY OF SUPERNOVA REMNANT N49 AND SOFT GAMMA-RAY REPEATER 0526-66 IN THE LARGE MAGELLANIC CLOUD. Astrophysical Journal, 2012, 748, 117.	1.6	50

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19	Evolutionary Status of SNR 1987A at the Age of Eighteen. Astrophysical Journal, 2006, 646, 1001-1008.	1.6	45
20	HIGH-RESOLUTION X-RAY SPECTROSCOPY OF SNR 1987A: CHANDRA LETG AND HETG OBSERVATIONS IN 2007. Astrophysical Journal, 2009, 692, 1190-1204.	1.6	42
21	SNR 1987A: Opening the Future by Reaching the Past. Astrophysical Journal, 2005, 634, L73-L76.	1.6	41
22	X-RAY EVOLUTION OF SNR 1987A: THE RADIAL EXPANSION. Astrophysical Journal, 2009, 703, 1752-1759.	1.6	41
23	Very Deep inside the SN 1987A Core Ejecta: Molecular Structures Seen in 3D. Astrophysical Journal Letters, 2017, 842, L24.	3.0	39
24	Collisionless shock heating of heavy ions in SN 1987A. Nature Astronomy, 2019, 3, 236-241.	4.2	39
25	0103-72.6: A New Oxygen-rich Supernova Remnant in the Small Magellanic Cloud. Astrophysical Journal, 2003, 598, L95-L98.	1.6	35
26	ChandraLETG Observations of Supernova Remnant 1987A. Astrophysical Journal, 2006, 645, 293-302.	1.6	35
27	The 30 Year Search for the Compact Object in SN 1987A. Astrophysical Journal, 2018, 864, 174.	1.6	34
28	LATE-TIME DETECTIONS OF THE X-RAY AFTERGLOW OF GRB 060729 WITHCHANDRAâ€"THE LATEST DETECTIONS EVER OF AN X-RAY AFTERGLOW. Astrophysical Journal, 2010, 711, 1008-1016.	1.6	27
29	SwiftXRT Observations of the Afterglow of XRF 050416A. Astrophysical Journal, 2007, 654, 403-412.	1.6	26
30	CHANDRAOBSERVATIONS OF SNR RCW 103. Astrophysical Journal, 2015, 810, 113.	1.6	26
31	ChandraXâ€Ray Study of Galactic Supernova Remnant G299.2â^'2.9. Astrophysical Journal, 2007, 665, 1173-1181.	1.6	22
32	Evolution of the Chandra CCD spectra of SNR 1987A: probing the reflected-shock picture. Monthly Notices of the Royal Astronomical Society, 2010, 407, 1157-1169.	1.6	21
33	A NEW EVOLUTIONARY PHASE OF SUPERNOVA REMNANT 1987A. Astrophysical Journal Letters, 2011, 733, L35.	3.0	15
34	MAPPING HIGH-VELOCITY H Î± AND Ly Î± EMISSION FROM SUPERNOVA 1987A. Astrophysical Journal Letters, 2015, 801, L16.	3.0	12
35	A DEEPCHANDRAOBSERVATION OF OXYGEN-RICH SUPERNOVA REMNANT B0049-73.6 IN THE SMALL MAGELLANIC CLOUD. Astrophysical Journal, 2014, 791, 50.	1.6	11
36	Characterization of the Particle-induced Background of XMM-Newton EPIC-pn: Short- and Long-term Variability. Astrophysical Journal, 2020, 891, 13.	1.6	11

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37	ASYMMETRY IN THE OBSERVED METAL-RICH EJECTA OF THE GALACTIC TYPE IA SUPERNOVA REMNANT G299.2â€“2.9. Astrophysical Journal Letters, 2014, 792, L20.	3.0	10
38	Analysis of XMM-Newton Observations of Supernova Remnant W49B and Clues to the Progenitor. Astrophysical Journal, 2020, 904, 175.	1.6	10
39	Spectral Evolution of the X-Ray Remnant of SN 1987A: A High-resolution Chandra HETG Study. Astrophysical Journal, 2021, 922, 140.	1.6	9
40	An Ejecta Kinematics Study of Keplerâ€™s Supernova Remnant with High-resolution Chandra HETG Spectroscopy. Astrophysical Journal, 2020, 893, 98.	1.6	8
41	Exploring rapid transient detection with the Athena Wide Field Imager. Journal of Astronomical Telescopes, Instruments, and Systems, 2020, 6, 1.	1.0	8
42	Year-scale Morphological Variation of the X-ray Crab Nebula. Symposium - International Astronomical Union, 2004, 218, 181-184.	0.1	6
43	High-cadence Dispersed Spectral Analysis of Supernova Remnant 1987A. Astrophysical Journal, 2020, 899, 21.	1.6	6
44	Smoothed Particle Inference Analysis of SNR DEM L71. Astrophysical Journal, 2019, 875, 14.	1.6	5
45	Smoothed particle inference analysis and abundance calculations of DEM L71, and comparison to SN explosion models. Astronomische Nachrichten, 2020, 341, 163-169.	0.6	5
46	Reducing the ATHENA WFI background with the science products module: lessons from Chandra ACIS. , 2018, , .		4
47	High-energy proton radiation damage experiment on a hybrid CMOS detector. Journal of Astronomical Telescopes, Instruments, and Systems, 2020, 6, 1.	1.0	4
48	Can the Fe K-alpha Line Reliably Predict Supernova Remnant Progenitors?. Astrophysical Journal, 2021, 922, 67.	1.6	4
49	Chandra Observations of Supernova 1987A. , 2007, , .		2
50	Broadband Observations of the Naked-Eye GRB 080319B. , 2009, , .		2
51	Optics for Nano-Satellite X-Ray Monitor. Open Astronomy, 2015, 24, .	0.2	2
52	Characterizing particle background of ATHENA WFI for the science products module: swift XRT full frame and XMM-PN small window mode observations. , 2018, , .		2
53	Mitigating the effects of particle background on the Athena Wide Field Imager. Journal of Astronomical Telescopes, Instruments, and Systems, 2022, 8, .	1.0	2
54	Measuring the soft x-ray quantum efficiency of a hybrid CMOS detector. Journal of Astronomical Telescopes, Instruments, and Systems, 2022, 8, .	1.0	2

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55	Monitoring the Evolution of SNR 1987A with Chandra. Symposium - International Astronomical Union, 2004, 218, 65-68.	0.1	1
56	The Swift XRT: Observations of Early X-ray Afterglows. AIP Conference Proceedings, 2006, , .	0.3	1
57	The ATHENA WFI science products module. , 2018, , .		1
58	Chandra Studies of Supernova Remnants and Pulsars. Symposium - International Astronomical Union, 2001, 205, 358-365.	0.1	0
59	The Swift X-ray flaring afterglow of GRB 050607. AIP Conference Proceedings, 2006, , .	0.3	0
60	Clues to the Nature of Massive Star Explosions from GRB X-ray afterglows. , 2007, , .		0
61	Jet Break Candidates in the X-ray and Optical Afterglow Lightcurves. AIP Conference Proceedings, 2008, , .	0.3	0
62	Broadband Observations of the Naked-Eye GRB 080319 B. , 2009, , .		0
63	SN1987A: the X-ray remnant at age 25 years. Proceedings of the International Astronomical Union, 2011, 7, 71-74.	0.0	0
64	The Swift era. , 0, , 73-90.		0
65	Elemental Abundances in Supernova Remnant W49B as Clues to Its Progenitor. Research Notes of the AAS, 2020, 4, 126.	0.3	0