

# 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	Mitigating the effects of particle background on the Athena Wide Field Imager. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2022, 8, .	1.0	2
2	Measuring the soft x-ray quantum efficiency of a hybrid CMOS detector. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2022, 8, .	1.0	2
3	Spectral Evolution of the X-Ray Remnant of SN 1987A: A High-resolution Chandra HETG Study. <i>Astrophysical Journal</i> , 2021, 922, 140.	1.6	9
4	Can the Fe K-alpha Line Reliably Predict Supernova Remnant Progenitors?. <i>Astrophysical Journal</i> , 2021, 922, 67.	1.6	4
5	An Ejecta Kinematics Study of Keplerâ€™s Supernova Remnant with High-resolution Chandra HETG Spectroscopy. <i>Astrophysical Journal</i> , 2020, 893, 98.	1.6	8
6	Smoothed particle inference analysis and abundance calculations of DEM L71, and comparison to SN explosion models. <i>Astronomische Nachrichten</i> , 2020, 341, 163-169.	0.6	5
7	Characterization of the Particle-induced Background of XMM-Newton EPIC-pn: Short- and Long-term Variability. <i>Astrophysical Journal</i> , 2020, 891, 13.	1.6	11
8	High-cadence Dispersed Spectral Analysis of Supernova Remnant 1987A. <i>Astrophysical Journal</i> , 2020, 899, 21.	1.6	6
9	Analysis of XMM-Newton Observations of Supernova Remnant W49B and Clues to the Progenitor. <i>Astrophysical Journal</i> , 2020, 904, 175.	1.6	10
10	Elemental Abundances in Supernova Remnant W49B as Clues to Its Progenitor. <i>Research Notes of the AAS</i> , 2020, 4, 126.	0.3	0
11	High-energy proton radiation damage experiment on a hybrid CMOS detector. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2020, 6, 1.	1.0	4
12	Exploring rapid transient detection with the Athena Wide Field Imager. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2020, 6, 1.	1.0	8
13	Swift spectra of AT2018cow: a white dwarf tidal disruption event?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 487, 2505-2521.	1.6	63
14	Collisionless shock heating of heavy ions in SN 1987A. <i>Nature Astronomy</i> , 2019, 3, 236-241.	4.2	39
15	Smoothed Particle Inference Analysis of SNR DEM L71. <i>Astrophysical Journal</i> , 2019, 875, 14.	1.6	5
16	High Angular Resolution ALMA Images of Dust and Molecules in the SN 1987A Ejecta. <i>Astrophysical Journal</i> , 2019, 886, 51.	1.6	71
17	The 30 Year Search for the Compact Object in SN 1987A. <i>Astrophysical Journal</i> , 2018, 864, 174.	1.6	34
18	Reducing the ATHENA WFI background with the science products module: lessons from Chandra ACIS. , 2018, , .		4

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19	The ATHENA WFI science products module. , 2018, , .		1
20	Characterizing particle background of ATHENA WFI for the science products module: swift XRT full frame and XMM-PN small window mode observations. , 2018, , .		2
21	Very Deep inside the SN 1987A Core Ejecta: Molecular Structures Seen in 3D. <i>Astrophysical Journal Letters</i> , 2017, 842, L24.	3.0	39
22	CHANDRA OBSERVES THE END OF AN ERA IN SN 1987A. <i>Astrophysical Journal</i> , 2016, 829, 40.	1.6	53
23	CHANDRA OBSERVATIONS OF SNR RCW 103. <i>Astrophysical Journal</i> , 2015, 810, 113.	1.6	26
24	MAPPING HIGH-VELOCITY H $\beta$ AND Ly $\alpha$ EMISSION FROM SUPERNOVA 1987A. <i>Astrophysical Journal Letters</i> , 2015, 801, L16.	3.0	12
25	Optics for Nano-Satellite X-Ray Monitor. <i>Open Astronomy</i> , 2015, 24, .	0.2	2
26	AN ANALYSIS OF CHANDRA DEEP FOLLOW-UP GAMMA-RAY BURSTS: IMPLICATIONS FOR OFF-AXIS JETS. <i>Astrophysical Journal</i> , 2015, 806, 15.	1.6	57
27	ASYMMETRY IN THE OBSERVED METAL-RICH EJECTA OF THE GALACTIC TYPE IA SUPERNOVA REMNANT G299.2â€“2.9. <i>Astrophysical Journal Letters</i> , 2014, 792, L20.	3.0	10
28	A DEEP CHANDRA OBSERVATION OF OXYGEN-RICH SUPERNOVA REMNANT B0049-73.6 IN THE SMALL MAGELLANIC CLOUD. <i>Astrophysical Journal</i> , 2014, 791, 50.	1.6	11
29	AN X-RAY STUDY OF SUPERNOVA REMNANT N49 AND SOFT GAMMA-RAY REPEATER 0526-66 IN THE LARGE MAGELLANIC CLOUD. <i>Astrophysical Journal</i> , 2012, 748, 117.	1.6	50
30	SN1987A: the X-ray remnant at age 25 years. <i>Proceedings of the International Astronomical Union</i> , 2011, 7, 71-74.	0.0	0
31	A NEW EVOLUTIONARY PHASE OF SUPERNOVA REMNANT 1987A. <i>Astrophysical Journal Letters</i> , 2011, 733, L35.	3.0	15
32	LATE-TIME DETECTIONS OF THE X-RAY AFTERGLOW OF GRB 060729 WITH CHANDRAâ€”THE LATEST DETECTIONS EVER OF AN X-RAY AFTERGLOW. <i>Astrophysical Journal</i> , 2010, 711, 1008-1016.	1.6	27
33	FIVE YEARS OF MID-INFRARED EVOLUTION OF THE REMNANT OF SN 1987A: THE ENCOUNTER BETWEEN THE BLAST WAVE AND THE DUSTY EQUATORIAL RING. <i>Astrophysical Journal</i> , 2010, 722, 425-434.	1.6	51
34	Evolution of the Chandra CCD spectra of SNR 1987A: probing the reflected-shock picture. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 407, 1157-1169.	1.6	21
35	X-RAY EVOLUTION OF SNR 1987A: THE RADIAL EXPANSION. <i>Astrophysical Journal</i> , 2009, 703, 1752-1759.	1.6	41
36	HIGH-RESOLUTION X-RAY SPECTROSCOPY OF SNR 1987A: CHANDRA LETG AND HETG OBSERVATIONS IN 2007. <i>Astrophysical Journal</i> , 2009, 692, 1190-1204.	1.6	42

#	ARTICLE	IF	CITATIONS
37	Broadband Observations of the Naked-Eye GRB 080319 B. , 2009, , .		0
38	Broadband Observations of the Naked-Eye GRB 080319B. , 2009, , .		2
39	Jet Break Candidates in the X-ray and Optical Afterglow Lightcurves. AIP Conference Proceedings, 2008, , .	0.3	0
40	A Comprehensive Analysis of <i>Swift</i> XRT Data. III. Jet Break Candidates in X-Ray and Optical Afterglow Light Curves. <i>Astrophysical Journal</i> , 2008, 675, 528-552.	1.6	171
41	Chandra Observations of Supernova 1987A. , 2007, , .		2
42	Clues to the Nature of Massive Star Explosions from GRB X-ray afterglows. , 2007, , .		0
43	A Half-Megasecond <i>Chandra</i> Observation of the Oxygen-rich Supernova Remnant G292.0+1.8. <i>Astrophysical Journal</i> , 2007, 670, L121-L124.	1.6	56
44	SwiftXRT Observations of the Afterglow of XRF 050416A. <i>Astrophysical Journal</i> , 2007, 654, 403-412.	1.6	26
45	<i>Chandra</i> X-Ray Study of Galactic Supernova Remnant G299.2 <sup>-</sup> 2.9. <i>Astrophysical Journal</i> , 2007, 665, 1173-1181.	1.6	22
46	Jet Breaks in Short Gamma-Ray Bursts. II. The Collimated Afterglow of GRB 051221A. <i>Astrophysical Journal</i> , 2006, 653, 468-473.	1.6	131
47	Evolutionary Status of SNR 1987A at the Age of Eighteen. <i>Astrophysical Journal</i> , 2006, 646, 1001-1008.	1.6	45
48	The Swift XRT: Observations of Early X-ray Afterglows. AIP Conference Proceedings, 2006, , .	0.3	1
49	The Swift X-ray flaring afterglow of GRB 050607. AIP Conference Proceedings, 2006, , .	0.3	0
50	Physical Processes Shaping Gamma-Ray Burst X-Ray Afterglow Light Curves: Theoretical Implications from the Swift X-Ray Telescope Observations. <i>Astrophysical Journal</i> , 2006, 642, 354-370.	1.6	829
51	ChandraLETG Observations of Supernova Remnant 1987A. <i>Astrophysical Journal</i> , 2006, 645, 293-302.	1.6	35
52	The Swift X-Ray Telescope. <i>Space Science Reviews</i> , 2005, 120, 165-195.	3.7	1,940
53	SNR 1987A: Opening the Future by Reaching the Past. <i>Astrophysical Journal</i> , 2005, 634, L73-L76.	1.6	41
54	Monitoring the Evolution of SNR 1987A with Chandra. Symposium - International Astronomical Union, 2004, 218, 65-68.	0.1	1

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55	Year-scale Morphological Variation of the X-ray Crab Nebula. Symposium - International Astronomical Union, 2004, 218, 181-184.	0.1	6
56	AChandraView of the Morphological and Spectral Evolution of Supernova Remnant 1987A. Astrophysical Journal, 2004, 610, 275-284.	1.6	55
57	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
58	0103-72.6: A New Oxygen-rich Supernova Remnant in the Small Magellanic Cloud. Astrophysical Journal, 2003, 598, L95-L98.	1.6	35
59	The X-Ray Spectrum of Supernova Remnant 1987A. Astrophysical Journal, 2002, 574, 166-178.	1.6	61
60	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
61	Monitoring the Evolution of the X-Ray Remnant of SN 1987A. Astrophysical Journal, 2002, 567, 314-322.	1.6	58
62	Chandra Studies of Supernova Remnants and Pulsars. Symposium - International Astronomical Union, 2001, 205, 358-365.	0.1	0
63	The X-Ray Remnant of SN 1987A. Astrophysical Journal, 2000, 543, L149-L152.	1.6	86
64	Determination of confidence limits for experiments with low numbers of counts. Astrophysical Journal, 1991, 374, 344.	1.6	389
65	The Swift era. , 0 , 73-90.		0