

Sheila McBreen

List of Publications by Year in descending order

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141
papers

9,544
citations

47006

47
h-index

37204

96
g-index

142
all docs

142
docs citations

142
times ranked

6278
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal Vacuum Test Campaign of the EIRSAT-1 Engineering Qualification Model. Aerospace, 2022, 9, 99.	2.2	6
2	Mission Test Campaign for the EIRSAT-1 Engineering Qualification Model. Aerospace, 2022, 9, 100.	2.2	3
3	A compact instrument for gamma-ray burst detection on a CubeSat platform II. Experimental Astronomy, 2022, 53, 961-990.	3.7	7
4	In Search of Short Gamma-Ray Burst Optical Counterparts with the Zwicky Transient Facility. Astrophysical Journal, 2022, 932, 40.	4.5	3
5	Balloon flight test of a CeBr3 detector with silicon photomultiplier readout. Experimental Astronomy, 2021, 52, 1-34.	3.7	12
6	Mission testing for improved reliability of CubeSats. , 2021, , .		10
7	The environmental test campaign of GMOD: a novel gamma-ray detector. , 2021, , .		5
8	Discovery and confirmation of the shortest gamma-ray burst from a collapsar. Nature Astronomy, 2021, 5, 917-927.	10.1	69
9	A compact instrument for gamma-ray burst detection on a CubeSat platform I. Experimental Astronomy, 2021, 52, 59-84.	3.7	12
10	Development of the EIRSAT-1 CubeSat through Functional Verification of the Engineering Qualification Model. Aerospace, 2021, 8, 254.	2.2	10
11	Embedded Firmware Development for a Novel CubeSat Gamma-Ray Detector. , 2021, , .		3
12	Radiation damage study of SensL J-series silicon photomultipliers using 101.4 MeV protons. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 976, 164203.	1.6	19
13	Detection capabilities of the Athena X-IFU for the warm-hot intergalactic medium using gamma-ray burst X-ray afterglows. Astronomy and Astrophysics, 2020, 642, A24.	5.1	7
14	BurstCube: a CubeSat for gravitational wave counterparts. , 2020, , .		5
15	On the Interpretation of the Fermi-GBM Transient Observed in Coincidence with LIGO Gravitational-wave Event GW150914. Astrophysical Journal Letters, 2018, 853, L9.	8.3	30
16	The First Fermi-GBM Terrestrial Gamma Ray Flash Catalog. Journal of Geophysical Research: Space Physics, 2018, 123, 4381-4401.	2.4	57
17	The THESEUS space mission concept: science case, design and expected performances. Advances in Space Research, 2018, 62, 191-244.	2.6	133
18	Growth of trigonal gadolinium fluoride in a glass-ceramic for scintillation and optical applications. Journal of the European Ceramic Society, 2018, 38, 4739-4748.	5.7	10

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19	Science with e-ASTROGAM. Journal of High Energy Astrophysics, 2018, 19, 1-106.	6.7	177
20	The continued development of a low energy Compton imager for GRB polarization studies. , 2018, , .		2
21	SEARCHING THE GAMMA-RAY SKY FOR COUNTERPARTS TO GRAVITATIONAL WAVE SOURCES: FERMI GAMMA-RAY BURST MONITOR AND LARGE AREA TELESCOPE OBSERVATIONS OF LVT151012 AND GW151226. Astrophysical Journal, 2017, 835, 82.	4.5	32
22	Terrestrial gamma ray flashes due to particle acceleration in tropical storm systems. Journal of Geophysical Research D: Atmospheres, 2017, 122, 3374-3395.	3.3	15
23	Electric field change measurements of a terrestrial gamma ray flash. Journal of Geophysical Research D: Atmospheres, 2017, 122, 5259-5266.	3.3	4
24	Localisation of gamma-ray interaction points in thick monolithic CeBr 3 and LaBr 3 :Ce scintillators. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 844, 81-89.	1.6	27
25	An Ordinary Short Gamma-Ray Burst with Extraordinary Implications: Fermi-GBM Detection of GRB 170817A. Astrophysical Journal Letters, 2017, 848, L14.	8.3	1,038
26	Using the SIPHRA ASIC with an SiPM array and scintillators for gamma spectroscopy. , 2017, , .		10
27	BurstCube: A CubeSat for Gravitational Wave Counterparts. , 2017, , .		9
28	Characteristics of Thunderstorms That Produce Terrestrial Gamma Ray Flashes. Bulletin of the American Meteorological Society, 2016, 97, 639-653.	3.3	36
29	The spectroscopy of individual terrestrial gamma-ray flashes: Constraining the source properties. Journal of Geophysical Research: Space Physics, 2016, 121, 11,346.	2.4	57
30	THE THIRD FERMI GBM GAMMA-RAY BURST CATALOG: THE FIRST SIX YEARS. Astrophysical Journal, Supplement Series, 2016, 223, 28.	7.7	191
31	GAVIP: a platform for Gaia data analysis. Proceedings of SPIE, 2016, , .	0.8	2
32	The e-ASTROGAM gamma-ray space mission. Proceedings of SPIE, 2016, , .	0.8	24
33	Ground detection of terrestrial gamma ray flashes from distant radio signals. Geophysical Research Letters, 2016, 43, 8728-8734.	4.0	41
34	FERMI GBM OBSERVATIONS OF LIGO GRAVITATIONAL-WAVE EVENT GW150914. Astrophysical Journal Letters, 2016, 826, L6.	8.3	246
35	Performance of a monolithic LaBr3:Ce crystal coupled to an array of silicon photomultipliers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 810, 107-119.	1.6	23
36	LOCALIZATION OF GAMMA-RAY BURSTS USING THE <i>FERMI</i> GAMMA-RAY BURST MONITOR. Astrophysical Journal, Supplement Series, 2015, 216, 32.	7.7	75

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37	Development of glass-ceramic scintillators for gamma-ray astronomy. Journal of Physics: Conference Series, 2015, 620, 012002.	0.4	11
38	THE SECOND <i>FERMI</i> GBM GAMMA-RAY BURST CATALOG: THE FIRST FOUR YEARS. Astrophysical Journal, Supplement Series, 2014, 211, 13.	7.7	172
39	POET: a SMEX mission for gamma ray burst polarimetry. Proceedings of SPIE, 2014, , .	0.8	6
40	Compton scattering in terrestrial gamma-ray flashes detected with the Fermi gamma-ray burst monitor. Physical Review D, 2014, 90, .	4.7	16
41	Fermi-LAT Observations of the Gamma-Ray Burst GRB 130427A. Science, 2014, 343, 42-47.	12.6	211
42	Pulse properties of terrestrial gamma-ray flashes detected by the Fermi Gamma-ray Burst Monitor. Journal of Geophysical Research: Space Physics, 2014, 119, 5931-5942.	2.4	25
43	The First Pulse of the Extremely Bright GRB 130427A: A Test Lab for Synchrotron Shocks. Science, 2014, 343, 51-54.	12.6	55
44	Radio signals from electron beams in terrestrial gamma ray flashes. Journal of Geophysical Research: Space Physics, 2013, 118, 2313-2320.	2.4	80
45	Fluence distribution of terrestrial gamma ray flashes observed by the Fermi Gamma-ray Burst Monitor. Journal of Geophysical Research: Space Physics, 2013, 118, 6644-6650.	2.4	28
46	Terrestrial gamma-ray flashes in the Fermi era: Improved observations and analysis methods. Journal of Geophysical Research: Space Physics, 2013, 118, 3805-3830.	2.4	109
47	Anomalies in low-energy gamma-ray burst spectra with the <i>Fermi</i> Gamma-ray Burst Monitor. Astronomy and Astrophysics, 2013, 550, A102.	5.1	12
48	THE FIRST <i>FERMI</i> -LAT GAMMA-RAY BURST CATALOG. Astrophysical Journal, Supplement Series, 2013, 209, 11.	7.7	232
49	MULTIWAVELENGTH OBSERVATIONS OF GRB 110731A: GeV EMISSION FROM ONSET TO AFTERGLOW. Astrophysical Journal, 2013, 763, 71.	4.5	75
50	Study of Silicon Photomultipliers for the GRIPS Calorimeter Module. Acta Polytechnica, 2013, 53, .	0.6	3
51	THE <i>FERMI</i> GBM GAMMA-RAY BURST CATALOG: THE FIRST TWO YEARS. Astrophysical Journal, Supplement Series, 2012, 199, 18.	7.7	100
52	GRB110721A: AN EXTREME PEAK ENERGY AND SIGNATURES OF THE PHOTOSPHERE. Astrophysical Journal Letters, 2012, 757, L31.	8.3	152
53	SGR J1550-5418 BURSTS DETECTED WITH THE <i>FERMI</i> GAMMA-RAY BURST MONITOR DURING ITS MOST PROLIFIC ACTIVITY. Astrophysical Journal, 2012, 749, 122.	4.5	66
54	Background estimation in a wide-field background-limited instrument such as Fermi GBM. Proceedings of SPIE, 2012, , .	0.8	8

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55	TEMPORAL DECONVOLUTION STUDY OF LONG AND SHORT GAMMA-RAY BURST LIGHT CURVES. <i>Astrophysical Journal</i> , 2012, 744, 141.	4.5	35
56	GRIPS - Gamma-Ray Imaging, Polarimetry and Spectroscopy. <i>Experimental Astronomy</i> , 2012, 34, 551-582.	3.7	48
57	CONSTRAINING THE HIGH-ENERGY EMISSION FROM GAMMA-RAY BURSTS WITH <i>FERMI</i> . <i>Astrophysical Journal</i> , 2012, 754, 121.	4.5	14
58	THE <i>FERMI</i> GBM GAMMA-RAY BURST SPECTRAL CATALOG: THE FIRST TWO YEARS. <i>Astrophysical Journal</i> , Supplement Series, 2012, 199, 19.	7.7	162
59	The late-time afterglow of the extremely energetic short burst GRB 090510 revisited. <i>Astronomy and Astrophysics</i> , 2012, 538, L7.	5.1	25
60	Multi-color observations of short GRB afterglows: 20 events observed between 2007 and 2010. <i>Astronomy and Astrophysics</i> , 2012, 548, A101.	5.1	43
61	Supersolar metal abundances in two galaxies at $z \approx 3.57$ revealed by the GRB 090323 afterglow spectrum. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 420, 627-636.	4.4	88
62	CONSTRAINTS ON THE SYNCHROTRON SHOCK MODEL FOR THE <i>FERMI</i> GRB 090820A OBSERVED BY GAMMA-RAY BURST MONITOR. <i>Astrophysical Journal</i> , 2011, 741, 24.	4.5	43
63	Rest-frame properties of 32 gamma-ray bursts observed by the <i>Fermi</i> Gamma-ray Burst Monitor. <i>Astronomy and Astrophysics</i> , 2011, 531, A20.	5.1	32
64	Photometric redshifts for gamma-ray burst afterglows from GROND and <i>Swift</i> /UVOT. <i>Astronomy and Astrophysics</i> , 2011, 526, A153.	5.1	47
65	GRB 050502B optical afterglow: a jet-break at high redshift. <i>Astronomy and Astrophysics</i> , 2011, 526, A154.	5.1	11
66	FIRST-YEAR RESULTS OF BROADBAND SPECTROSCOPY OF THE BRIGHTEST <i>FERMI</i> -GBM GAMMA-RAY BURSTS. <i>Astrophysical Journal</i> , 2011, 733, 97.	4.5	25
67	DETECTION OF A THERMAL SPECTRAL COMPONENT IN THE PROMPT EMISSION OF GRB 100724B. <i>Astrophysical Journal Letters</i> , 2011, 727, L33.	8.3	205
68	DETECTION OF A SPECTRAL BREAK IN THE EXTRA HARD COMPONENT OF GRB 090926A. <i>Astrophysical Journal</i> , 2011, 729, 114.	4.5	179
69	GRB 090426: Discovery of a jet break in a short burst afterglow. <i>Astronomy and Astrophysics</i> , 2011, 531, L6.	5.1	52
70	The <i>Swift</i> / <i>Fermi</i> GRB 080928 from 1 eV to 150 keV. <i>Astronomy and Astrophysics</i> , 2011, 529, A142.	5.1	44
71	GBM Long and Short GRB Lightcurve Decomposition Analysis. <i>AIP Conference Proceedings</i> , 2011, , .	0.4	1
72	<i>Fermi</i> /GBM observations of the ultra-long GRB 091024. <i>Astronomy and Astrophysics</i> , 2011, 528, A15.	5.1	43

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73	Energy-dependent Spectral Lags of short GRBs detected by Fermi-GBM. , 2011, , .		0
74	Spectral Cross-Calibration of Fermi-GBM and INTEGRAL-ISGRM using Gamma-Ray Bursts. , 2011, , .		0
75	GRB 090618: detection of thermal X-ray emission from a bright gamma-ray burst. Monthly Notices of the Royal Astronomical Society, 2011, 416, 2078-2089.	4.4	57
76	The SEDs and host galaxies of the dustiest GRB afterglows. Astronomy and Astrophysics, 2011, 534, A108.	5.1	142
77	<i>FERMI</i> DETECTION OF DELAYED GeV EMISSION FROM THE SHORT GAMMA-RAY BURST 081024B. Astrophysical Journal, 2010, 712, 558-564.	4.5	54
78	TIME-RESOLVED SPECTROSCOPY OF THE THREE BRIGHTEST AND HARDEST SHORT GAMMA-RAY BURSTS OBSERVED WITH THE <i>FERMI</i> GAMMA-RAY BURST MONITOR. Astrophysical Journal, 2010, 725, 225-241.	4.5	75
79	<i>FERMI</i> OBSERVATIONS OF HIGH-ENERGY GAMMA-RAY EMISSION FROM GRB 090217A. Astrophysical Journal Letters, 2010, 717, L127-L132.	8.3	26
80	A VERY METAL-POOR DAMPED LYMAN- α SYSTEM REVEALED THROUGH THE MOST ENERGETIC GRB 090926A. Astrophysical Journal, 2010, 720, 862-871.	4.5	52
81	IDENTIFICATION AND PROPERTIES OF THE PHOTOSPHERIC EMISSION IN GRB090902B. Astrophysical Journal Letters, 2010, 709, L172-L177.	8.3	207
82	The Photometry Pipeline of the Watcher Robotic Telescope. Advances in Astronomy, 2010, 2010, 1-5.	1.1	10
83	Optical and near-infrared follow-up observations of four <i>Fermi</i>/LAT GRBs: redshifts, afterglows, energetics, and host galaxies. Astronomy and Astrophysics, 2010, 516, A71.	5.1	96
84	A STRONG OPTICAL FLARE BEFORE THE RISING AFTERGLOW OF GRB 080129. Astrophysical Journal, 2009, 693, 1912-1919.	4.5	75
85	CORRELATED OPTICAL AND X-RAY FLARES IN THE AFTERGLOW OF XRF 071031. Astrophysical Journal, 2009, 697, 758-768.	4.5	57
86	GRB 080913 AT REDSHIFT 6.7. Astrophysical Journal, 2009, 693, 1610-1620.	4.5	175
87	High energy emission and polarisation limits for the <i>INTEGRAL</i> burst GRB 061122. Astronomy and Astrophysics, 2009, 499, 465-472.	5.1	32
88	The redshift and afterglow of the extremely energetic gamma-ray burst GRB 080916C. Astronomy and Astrophysics, 2009, 498, 89-94.	5.1	92
89	The bright optical/NIR afterglow of the faint GRB 080710 – evidence of a jet viewed off-axis. Astronomy and Astrophysics, 2009, 508, 593-598.	5.1	44
90	<i>FERMI</i> OBSERVATIONS OF HIGH-ENERGY GAMMA-RAY EMISSION FROM GRB 080825C. Astrophysical Journal, 2009, 707, 580-592.	4.5	56

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91	The afterglow of XRF 071031: Evidence for correlated optical and X-ray flares. , 2009, , .		0
92	Spectral analysis of GRB 080810 detected by Fermi GBM and Swift BAT. , 2009, , .		0
93	Very fast optical flaring from a possible new Galactic magnetar. , 2009, , .		0
94	Spectral Lags of GRBs observed with INTEGRAL and the inferred large population of low-luminosity GRBs. , 2009, , .		3
95	Fermi GBM: Main detector-level calibration results. , 2009, , .		2
96	The Spectral Lag Distribution of Swift Gamma-Ray Bursts. , 2009, , .		0
97	Using GRB 080723B to cross-calibrate Fermiâ•GBM and INTEGRAL. , 2009, , .		3
98	Watcher Robotic Telescope Follow-Ups of GRBs. , 2009, , .		1
99	Fermi Observations of High-Energy Gamma-Ray Emission from GRB 080916C. <i>Science</i> , 2009, 323, 1688-1693.	12.6	523
100	Gamma-ray burst investigation via polarimetry and spectroscopy (GRIPS). <i>Experimental Astronomy</i> , 2009, 23, 91-120.	3.7	32
101	Ground-based calibration and characterization of the Fermi gamma-ray burst monitor detectors. <i>Experimental Astronomy</i> , 2009, 24, 47-88.	3.7	68
102	Multiwavelength observations of the energetic GRB 080810: detailed mapping of the broad-band spectral evolution. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 400, 134-146.	4.4	44
103	A limit on the variation of the speed of light arising from quantum gravity effects. <i>Nature</i> , 2009, 462, 331-334.	27.8	454
104	THE<i>FERMI</i>GAMMA-RAY BURST MONITOR. <i>Astrophysical Journal</i> , 2009, 702, 791-804.	4.5	1,063
105	<i>FERMI</i> OBSERVATIONS OF GRB 090902B: A DISTINCT SPECTRAL COMPONENT IN THE PROMPT AND DELAYED EMISSION. <i>Astrophysical Journal</i> , 2009, 706, L138-L144.	4.5	364
106	Very fast optical flaring from a possible new Galactic magnetar. <i>Nature</i> , 2008, 455, 503-505.	27.8	34
107	INTEGRAL CONSTRAINTS ON GAMMA-RAY BURST POLARIZATION AND ON THE POPULATION OF NEARBY, LOW-LUMINOSITY BURSTS. <i>International Journal of Modern Physics D</i> , 2008, 17, 1351-1357.	2.1	0
108	The 2175 Å... Dust Feature in a Gammaâ€Ray Burst Afterglow at Redshift 2.45. <i>Astrophysical Journal</i> , 2008, 685, 376-383.	4.5	175

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109	The Spectral Lag of GRB 060505: A Likely Member of the Long-Duration Class. <i>Astrophysical Journal</i> , 2008, 677, L85-L88.	4.5	40
110	GRB 070707: the first short gamma-ray burst observed by <i>INTEGRAL</i> . <i>Astronomy and Astrophysics</i> , 2008, 486, 405-410.	5.1	13
111	Global characteristics of GRBs observed with <i>INTEGRAL</i> and the inferred large population of low-luminosity GRBs. <i>Astronomy and Astrophysics</i> , 2008, 484, 143-157.	5.1	37
112	The dark nature of GRB 051022 and its host galaxy. <i>Astronomy and Astrophysics</i> , 2007, 475, 101-107.	5.1	48
113	Polarisation studies of the prompt gamma-ray emission from GRB 041219a using the spectrometer aboard <i>INTEGRAL</i> . <i>Astronomy and Astrophysics</i> , 2007, 466, 895-904.	5.1	121
114	Multi-wavelength afterglow observations of the high redshift GRB 050730. <i>Astronomy and Astrophysics</i> , 2006, 460, 415-424.	5.1	38
115	The weak <i>INTEGRAL</i> bursts GRB 040223 and GRB 040624: an emerging population of dark afterglows. <i>Astronomy and Astrophysics</i> , 2006, 448, 971-982.	5.1	8
116	Observations of the intense and ultra-long burst GRB 041219a with the Germanium spectrometer on <i>INTEGRAL</i> . <i>Astronomy and Astrophysics</i> , 2006, 455, 433-440.	5.1	31
117	Outshining the Quasars at Reionization: The X-Ray Spectrum and Light Curve of the Redshift 6.29 Gamma-Ray Burst GRB 050904. <i>Astrophysical Journal</i> , 2006, 637, L69-L72.	4.5	39
118	GRB 060121: Implications of a Short-/Intermediate-Duration γ -Ray Burst at High Redshift. <i>Astrophysical Journal</i> , 2006, 648, L83-L87.	4.5	50
119	The latest two GRB detected by HETE-2: GRB 051022 and GRB 051028. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	0
120	Gamma-ray bursts and giant lightning discharges in protoplanetary systems. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	0
121	Observations of Gamma-Ray Bursts with <i>INTEGRAL</i> . <i>AIP Conference Proceedings</i> , 2006, , .	0.4	0
122	The frontier of darkness: the cases of GRB 040223, GRB 040422, GRB 040624. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	0
123	The X-ray spectrum and lightcurve of the redshift 6.29 γ -Ray Burst GRB 050904. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	0
124	GRB 051028: an intrinsically faint gamma-ray burst at high redshift?. <i>Astronomy and Astrophysics</i> , 2006, 459, 763-767.	5.1	7
125	<i>INTEGRAL</i> and XMM-Newton observations of GRB 040223. <i>Proceedings of the International Astronomical Union</i> , 2005, 1, 250-251.	0.0	0
126	Gamma-ray bursts and other sources of giant lightning discharges in protoplanetary systems. <i>Astronomy and Astrophysics</i> , 2005, 429, L41-L45.	5.1	6

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127	INTEGRAL and XMM-Newton observations of GRB 040106. <i>Astronomy and Astrophysics</i> , 2005, 432, 467-473.	5.1	11
128	An ISOCAM survey through gravitationally lensing galaxy clusters. <i>Astronomy and Astrophysics</i> , 2005, 430, 59-66.	5.1	25
129	Out of the darkness: the infrared afterglow of the INTEGRAL burst GRB 040422 observed with the VLT. <i>Astronomy and Astrophysics</i> , 2005, 438, 793-801.	5.1	10
130	Similarities in the Temporal Properties of Gamma-Ray Bursts and Soft Gamma-Ray Repeaters. <i>AIP Conference Proceedings</i> , 2004, , .	0.4	0
131	Watcher: A Telescope for Rapid Gamma-Ray Burst Follow-Up Observations. <i>AIP Conference Proceedings</i> , 2004, , .	0.4	9
132	BOOTES: Technological Developments and Scientific Results by a Stereoscopic System with two Stations Spaced by 240 km. <i>AIP Conference Proceedings</i> , 2004, , .	0.4	0
133	INTEGRAL Spectrometer Analysis of GRB030227 & GRB030131. <i>AIP Conference Proceedings</i> , 2004, , .	0.4	0
134	Temporal Properties of Short and Long Gamma-Ray Bursts. <i>AIP Conference Proceedings</i> , 2003, , .	0.4	6
135	Recent Developments in the BOOTES Experiment. <i>AIP Conference Proceedings</i> , 2003, , .	0.4	10
136	Gamma-ray bursts and X-ray melting of material to form chondrules and planets. <i>Astronomy and Astrophysics</i> , 2003, 409, L9-L12.	5.1	6
137	Cumulative light curves of gamma-ray bursts and relaxation systems. <i>Astronomy and Astrophysics</i> , 2002, 393, L29-L32.	5.1	17
138	Temporal properties of gamma ray bursts as signatures of jets from the central engine. <i>Astronomy and Astrophysics</i> , 2002, 385, 377-398.	5.1	70
139	Timing diagrams and correlations in gamma-ray bursts signal jets from accretion into black holes. <i>Astronomy and Astrophysics</i> , 2002, 385, L19-L22.	5.1	8
140	Kerr black holes and time profiles of gamma ray bursts. <i>Astronomy and Astrophysics</i> , 2002, 393, L15-L19.	5.1	9
141	Temporal properties of the short gamma-ray bursts. <i>Astronomy and Astrophysics</i> , 2001, 380, L31-L34.	5.1	39