

# Oliver J Roberts

## List of Publications by Year in descending order

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Version: 2024-02-01

116  
papers

9,486  
citations

136950

32  
h-index

36028

97  
g-index

118  
all docs

118  
docs citations

118  
times ranked

10330  
citing authors

#	ARTICLE	IF	CITATIONS
1	In Search of Short Gamma-Ray Burst Optical Counterparts with the Zwicky Transient Facility. <i>Astrophysical Journal</i> , 2022, 932, 40.	4.5	3
2	Observation of new neutron-rich isotopes in the vicinity of $Zr$ . <i>Physical Review C</i> , 2021, 103, .	2.9	7
3	Rapid spectral variability of a giant flare from a magnetar in NGC 253. <i>Nature</i> , 2021, 589, 207-210.	27.8	36
4	Broadband X-ray burst spectroscopy of the fast-radio-burst-emitting Galactic magnetar. <i>Nature Astronomy</i> , 2021, 5, 408-413.	10.1	31
5	Radio Frequency Emissions Associated With Multi-Pulsed Terrestrial Gamma-Ray Flashes. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA027928.	2.4	0
6	The Fermi-GBM Gamma-Ray Burst Spectral Catalog: 10 yr of Data. <i>Astrophysical Journal</i> , 2021, 913, 60.	4.5	49
7	Fermi/GBM Observations of the SGR J1935+2154 Burst Forest. <i>Astrophysical Journal Letters</i> , 2021, 916, L7.	8.3	7
8	Identification of a Local Sample of Gamma-Ray Bursts Consistent with a Magnetar Giant Flare Origin. <i>Astrophysical Journal Letters</i> , 2021, 907, L28.	8.3	33
9	boundary of the $Z$ shape phase transition: $N$ $\rightarrow$ $88$	2.9	9
10	A Joint Fermi-GBM and LIGO/Virgo Analysis of Compact Binary Mergers from the First and Second Gravitational-wave Observing Runs. <i>Astrophysical Journal</i> , 2020, 893, 100.	4.5	12
11	Gamma-Ray and Radio-Frequency Radiation from Thunderstorms Observed from Space and Ground. <i>Scientific Reports</i> , 2020, 10, 7286.	3.3	15
12	Isomeric and $\beta^-$ -decay spectroscopy of $Ho^{173,174}$ . <i>Physical Review C</i> , 2020, 102, .	2.9	2
13	Burst Properties of the Most Recurring Transient Magnetar SGR J1935+2154. <i>Astrophysical Journal</i> , 2020, 893, 156.	4.5	45
14	Evaluation of Automated Fermi GBM Localizations of Gamma-Ray Bursts. <i>Astrophysical Journal</i> , 2020, 895, 40.	4.5	24
15	The Ups and Downs of Accreting X-Ray Pulsars: Decade-long Observations with the Fermi Gamma-Ray Burst Monitor. <i>Astrophysical Journal</i> , 2020, 896, 90.	4.5	48
16	Shape evolution of neutron-rich $Mo$ isotopes in the triaxial degree of freedom. <i>Physical Review C</i> , 2020, 101, .	2.9	16
17	FATIMA – Fast TIMing Array for DESPEC at FAIR. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2020, 969, 163967.	1.6	29
18	The Fourth Fermi-GBM Gamma-Ray Burst Catalog: A Decade of Data. <i>Astrophysical Journal</i> , 2020, 893, 46.	4.5	175

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19	Fermi and Swift Observations of GRB 190114C: Tracing the Evolution of High-energy Emission from Prompt to Afterglow. <i>Astrophysical Journal</i> , 2020, 890, 9.	4.5	48
20	Fermi/GBM View of the 2019 and 2020 Burst Active Episodes of SGR J1935+2154. <i>Astrophysical Journal Letters</i> , 2020, 902, L43.	8.3	37
21	Persistent Emission Properties of SGR J1935+2154 during Its 2020 Active Episode. <i>Astrophysical Journal Letters</i> , 2020, 905, L31.	8.3	5
22	Analysis of Individual Terrestrial Gamma-Ray Flashes With Lightning Leader Models and Fermi Gamma-Ray Burst Monitor Data. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 7170-7183.	2.4	21
23	Interplay of quasiparticle and vibrational excitations: First observation of isomeric states in $^{168}\text{Dy}$ and $^{169}\text{Dy}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 799, 135036.	4.1	8
24	A Fermi Gamma-Ray Burst Monitor Event Observed as a Terrestrial Gamma-Ray Flash and Terrestrial Electron Beam. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 10580-10591.	2.4	6
25	Low Frequency Radio Pulses Produced by Terrestrial Gamma-Ray Flashes. <i>Geophysical Research Letters</i> , 2019, 46, 6990-6997.	4.0	30
26	Fermi-GBM GRBs with Characteristics Similar to GRB 170817A. <i>Astrophysical Journal</i> , 2019, 876, 89.	4.5	24
27	A Fermi Gamma-Ray Burst Monitor Search for Electromagnetic Signals Coincident with Gravitational-wave Candidates in Advanced LIGO's First Observing Run. <i>Astrophysical Journal</i> , 2019, 871, 90.	4.5	30
28	A very-high-energy component deep in the $\hat{\Gamma}^3$ -ray burst afterglow. <i>Nature</i> , 2019, 575, 464-467.	27.8	166
29	Observation of inverse Compton emission from a long $\hat{\Gamma}^3$ -ray burst. <i>Nature</i> , 2019, 575, 459-463.	27.8	146
30	Full-shell x-ray optics development at NASA Marshall Space Flight Center. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2019, 5, 1.	1.8	17
31	Very High Frequency Radio Emissions Associated With the Production of Terrestrial Gamma-Ray Flashes. <i>Geophysical Research Letters</i> , 2018, 45, 2097-2105.	4.0	26
32	On the Interpretation of the Fermi-GBM Transient Observed in Coincidence with LIGO Gravitational-wave Event GW150914. <i>Astrophysical Journal Letters</i> , 2018, 853, L9.	8.3	30
33	Analysis of Sub-threshold Short Gamma-Ray Bursts in Fermi GBM Data. <i>Astrophysical Journal</i> , 2018, 862, 152.	4.5	21
34	The boundary of the N=90 shape phase transition: $^{148}\text{Ce}$ . <i>Journal of Physics: Conference Series</i> , 2018, 1023, 012022.	0.4	0
35	The First Fermi-GBM Terrestrial Gamma Ray Flash Catalog. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 4381-4401.	2.4	57
36	A Study of Consecutive Terrestrial Gamma-Ray Flashes Using the Gamma-Ray Burst Monitor. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 9634-9651.	2.4	5

#	ARTICLE	IF	CITATIONS
37	Lifetime measurement in neutron-rich A~100 nuclei. EPJ Web of Conferences, 2018, 193, 05003.	0.3	0
38	Fermi GBM Observations of GRB 150101B: A Second Nearby Event with a Short Hard Spike and a Soft Tail. Astrophysical Journal Letters, 2018, 863, L34.	8.3	28
39	A Wolter imager on the Z machine to diagnose warm x-ray sources. Review of Scientific Instruments, 2018, 89, 10G115.	1.3	16
40	Design and raytrace simulations of a multilayer-coated Wolter x-ray optic for the Z machine at Sandia National Laboratories. Review of Scientific Instruments, 2018, 89, 10G113.	1.3	10
41	$^{12}\text{Dy}$ and isomeric decay spectroscopy of $^{168}\text{Dy}$ . EPJ Web of Conferences, 2018, 178, 02023.	0.3	0
42	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
43	Characteristics of Radio Emissions Associated With Terrestrial Gamma-Ray Flashes. Journal of Geophysical Research: Space Physics, 2018, 123, 5933-5948.	2.4	26
44	Isomer spectroscopy of neutron-rich $^{168}\text{Tb}$ . Radiation Physics and Chemistry, 2017, 140, 493-496.	2.8	2
45	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
46	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
47	Decay Half-Lives of Neutron-Rich $^{134}\text{Cs}$ . <a href="http://www.w3.org/1998/Math/MathML">http://www.w3.org/1998/Math/MathML</a> display="inline" <math>^{134}\text{Cs}</math> 68		
48	Electric field change measurements of a terrestrial gamma ray flash. Journal of Geophysical Research D: Atmospheres, 2017, 122, 5259-5266.	3.3	4
49	Localisation of gamma-ray interaction points in thick monolithic CeBr <sub>3</sub> and LaBr <sub>3</sub> :Ce scintillators. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 844, 81-89.	1.6	27
50	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
51	Multi-messenger Observations of a Binary Neutron Star Merger. Astrophysical Journal Letters, 2017, 848, L12.	8.3	2,805
52	Gravitational Waves and Gamma-Rays from a Binary Neutron Star Merger: GW170817 and GRB 170817A. Astrophysical Journal Letters, 2017, 848, L13.	8.3	2,314
53	Fermi Observations of the LIGO Event GW170104. Astrophysical Journal Letters, 2017, 846, L5.	8.3	15
54	Isomer-delayed gamma-ray spectroscopy of neutron-rich $^{166}\text{Tb}$ . EPJ Web of Conferences, 2017, 146, 10009.	0.3	0

#	ARTICLE	IF	CITATIONS
55	<p> <math>\gamma</math>-ray spectroscopy of the neutron-rich platinum isotope <math>^{200}\text{Pt}</math> toward the <math>^{200}\text{K}</math> selection in the decay of the <math>^{126}\text{Mo}</math> </p>	2.9	12
56	<p> <math>\gamma</math>-ray spectroscopy of the neutron-rich platinum isotope <math>^{200}\text{Pt}</math> toward the <math>^{200}\text{K}</math> selection in the decay of the <math>^{126}\text{Mo}</math> </p>		





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109	Electromagnetic Transition Rate Measurements in the $N=80$ Isotone, $^{138}\text{Ce}$ . Journal of Physics: Conference Series, 2012, 381, 012057.	0.4	0
110	Development of a fast-timing LaBr <sub>3</sub> (Ce) array for NuSTAR. Journal of Physics: Conference Series, 2012, 381, 012124.	0.4	1
111	PROBING THE $^{12}\text{C} - ^{12}\text{C}$ AND $^{12}\text{C} - ^{16}\text{O}$ MOLECULAR STATES BY RADIATIVE CAPTURE REACTIONS: PRESENT STATUS AND FUTURE. International Journal of Modern Physics E, 2011, 20, 793-796.	1.0	3
112	Title is missing!. Acta Physica Polonica B, 2011, 42, 729.	0.8	2
113	Title is missing!. Acta Physica Polonica B, 2011, 42, 633.	0.8	6
114	Title is missing!. Acta Physica Polonica B, 2011, 42, 721.	0.8	1
115	Nuclear Structure at the Extremes; In-beam $\hat{I}^3$ -ray Spectroscopy of $^{180}\text{Pb}$ . , 2011, , .		0
116	Shape coexistence at the proton drip-line: First identification of excited states in $^{180}\text{Pb}$ . Physical Review C, 2010, 82, .	2.9	28