

Anna L Watts

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

4,276
citations

201575

27
h-index

175177

52
g-index

56
all docs

56
docs citations

56
times ranked

2668
citing authors

#	ARTICLE	IF	CITATIONS
1	GRMHD simulations of accreting neutron stars with non-dipole fields. Monthly Notices of the Royal Astronomical Society, 2022, 515, 3144-3161.	1.6	17
2	Search for Continuous Gravitational Waves from Scorpius X-1 in LIGO O2 Data. Astrophysical Journal Letters, 2021, 906, L14.	3.0	34
3	Constraining the Neutron Star Mass-Radius Relation and Dense Matter Equation of State with NICER. III. Model Description and Verification of Parameter Estimation Codes. Astrophysical Journal Letters, 2021, 914, L15.	3.0	27
4	X-ray burst ignition location on the surface of accreting X-ray pulsars: can bursts preferentially ignite at the hotspot?. Monthly Notices of the Royal Astronomical Society, 2021, 505, 5530-5542.	1.6	3
5	A NICER View of the Massive Pulsar PSR J0740+6620 Informed by Radio Timing and XMM-Newton Spectroscopy. Astrophysical Journal Letters, 2021, 918, L27.	3.0	544
6	Constraints on the Dense Matter Equation of State and Neutron Star Properties from NICER's Mass-Radius Estimate of PSR J0740+6620 and Multimessenger Observations. Astrophysical Journal Letters, 2021, 918, L29.	3.0	190
7	Deep model simulation of polar vortices in gas giant atmospheres. Monthly Notices of the Royal Astronomical Society, 2020, 499, 4698-4715.	1.6	16
8	Waves in thin oceans on oblate neutron stars. Monthly Notices of the Royal Astronomical Society, 2020, 496, 2098-2106.	1.6	3
9	Relativistic ocean α -modes during type-I X-ray bursts. Monthly Notices of the Royal Astronomical Society, 2020, 491, 6032-6044.	1.6	8
10	Constraining the Dense Matter Equation of State with Joint Analysis of NICER and LIGO/Virgo Measurements. Astrophysical Journal Letters, 2020, 893, L21.	3.0	143
11	The Multi-INstrument Burst ARchive (MINBAR). Astrophysical Journal, Supplement Series, 2020, 249, 32.	3.0	68
12	Constraining the neutron star equation of state using pulse profile modeling. AIP Conference Proceedings, 2019, , .	0.3	20
13	A Search for the 835 Hz Superburst Oscillation Signal in the Regular Thermonuclear Bursts of 4U 1636-536. Astrophysical Journal, 2019, 876, 11.	1.6	0
14	Equation of state sensitivities when inferring neutron star and dense matter properties. Monthly Notices of the Royal Astronomical Society, 2019, 485, 5363-5376.	1.6	89
15	Physics and astrophysics of strong magnetic field systems with eXTP. Science China: Physics, Mechanics and Astronomy, 2019, 62, 1.	2.0	17
16	Burning in the Tail: Implications for a Burst Oscillation Model. Astrophysical Journal, 2019, 871, 61.	1.6	10
17	A Uniform Search for Thermonuclear Burst Oscillations in the RXTE Legacy Data Set. Astrophysical Journal, Supplement Series, 2019, 245, 19.	3.0	23
18	A NICER View of PSR J0030+0451: Implications for the Dense Matter Equation of State. Astrophysical Journal Letters, 2019, 887, L22.	3.0	162

#	ARTICLE	IF	CITATIONS
19	Constraining the Neutron Star Mass–Radius Relation and Dense Matter Equation of State with NICER. II. Emission from Hot Spots on a Rapidly Rotating Neutron Star. <i>Astrophysical Journal Letters</i> , 2019, 887, L26.	3.0	95
20	A NICER View of PSR J0030+0451: Millisecond Pulsar Parameter Estimation. <i>Astrophysical Journal Letters</i> , 2019, 887, L21.	3.0	914
21	A NICER View of PSR J0030+0451: Evidence for a Global-scale Multipolar Magnetic Field. <i>Astrophysical Journal Letters</i> , 2019, 887, L23.	3.0	97
22	Constraining the Neutron Star Mass–Radius Relation and Dense Matter Equation of State with NICER. I. The Millisecond Pulsar X-Ray Data Set. <i>Astrophysical Journal Letters</i> , 2019, 887, L25.	3.0	110
23	Dense matter with eXTP. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019, 62, 1.	2.0	81
24	The enhanced X-ray Timing and Polarimetry mission—eXTP. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019, 62, 1.	2.0	178
25	The rotational phase dependence of magnetar bursts. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 1271-1285.	1.6	5
26	Superburst oscillations: ocean and crustal modes excited by carbon-triggered type I X-ray bursts. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 4391-4402.	1.6	5
27	The Influence of Stellar Spin on Ignition of Thermonuclear Runaways. <i>Astrophysical Journal Letters</i> , 2018, 857, L24.	3.0	8
28	On parametrized cold dense matter equation-of-state inference. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 478, 1093-1131.	1.6	28
29	A pitfall of piecewise-polytropic equation of state inference. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 478, 2177-2192.	1.6	23
30	A Millisecond Oscillation in the Bursting X-Ray Flux of SAX J1810.8–2609. <i>Astrophysical Journal Letters</i> , 2018, 862, L4.	3.0	10
31	Onset of low Prandtl number thermal convection in thin spherical shells. <i>Physical Review Fluids</i> , 2018, 3, .	1.0	12
32	Thermal convection in rotating spherical shells: Temperature-dependent internal heat generation using the example of triple- α burning in neutron stars. <i>Physical Review Fluids</i> , 2018, 3, .	1.0	4
33	THE ACCRETION RATE DEPENDENCE OF BURST OSCILLATION AMPLITUDE. <i>Astrophysical Journal</i> , 2017, 834, 21.	1.6	19
34	BURST AND OUTBURST CHARACTERISTICS OF MAGNETAR 4U 0142+61. <i>Astrophysical Journal</i> , 2017, 835, 68.	1.6	4
35	The onset of low Prandtl number thermal convection in thin spherical shells. <i>Proceedings of the International Astronomical Union</i> , 2017, 13, 336-337.	0.0	0
36	Magnetar giant flare high-energy emission. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 471, 1856-1872.	1.6	1

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37	Superburst Oscillations: ocean and crustal modes excited by X-Ray bursts. Proceedings of the International Astronomical Union, 2017, 13, 324-325.	0.0	0
38	On the Dependence of the X-Ray Burst Rate on Accretion and Spin Rate. Astrophysical Journal, 2017, 851, 1.	1.6	18
39	Thermonuclear burst oscillations and the dense matter equation of state. Proceedings of the International Astronomical Union, 2017, 13, 209-212.	0.0	0
40	MAGNETAR-LIKE X-RAY BURSTS FROM A ROTATION-POWERED PULSAR, PSR J1119â€“6127. Astrophysical Journal Letters, 2016, 829, L25.	3.0	51
41	<i>Colloquium</i>: Measuring the neutron star equation of state using x-ray timing. Reviews of Modern Physics, 2016, 88, .	16.4	234
42	Radiative transfer simulations of magnetar flare beaming. Monthly Notices of the Royal Astronomical Society, 2016, 461, 877-891.	1.6	17
43	Fast and slow magnetic deflagration fronts in type I X-ray bursts. Monthly Notices of the Royal Astronomical Society, 2016, 459, 1259-1275.	1.6	19
44	Magnetars: the physics behind observations. A review. Reports on Progress in Physics, 2015, 78, 116901.	8.1	305
45	Rotational effects in thermonuclear type I bursts: equatorial crossing and directionality of flame spreading. Monthly Notices of the Royal Astronomical Society, 2015, 448, 445-455.	1.6	28
46	Magnetically driven crustquakes in neutron stars. Monthly Notices of the Royal Astronomical Society, 2015, 449, 2047-2058.	1.6	65
47	DISSECTING MAGNETAR VARIABILITY WITH BAYESIAN HIERARCHICAL MODELS. Astrophysical Journal, 2015, 810, 66.	1.6	13
48	THE FIVE YEAR <i>FERMI</i> /GBM MAGNETAR BURST CATALOG. Astrophysical Journal, Supplement Series, 2015, 218, 11.	3.0	45
49	Flame propagation on the surfaces of rapidly rotating neutron stars during Type I X-ray bursts. Monthly Notices of the Royal Astronomical Society, 2013, 434, 3526-3541.	1.6	34
50	BROADBAND SPECTRAL INVESTIGATIONS OF SGR J1550â€“5418 BURSTS. Astrophysical Journal, 2012, 756, 54.	1.6	40
51	Thermonuclear Burst Oscillations. Annual Review of Astronomy and Astrophysics, 2012, 50, 609-640.	8.1	145
52	IMPLICATIONS OF BURST OSCILLATIONS FROM THE SLOWLY ROTATING ACCRETING PULSAR IGR J17480â€“2446 IN THE GLOBULAR CLUSTER TERZAN 5. Astrophysical Journal Letters, 2011, 740, L8.	3.0	43
53	DISCOVERY OF BURST OSCILLATIONS IN THE INTERMITTENT ACCRETION-POWERED MILLISECOND PULSAR HETE J1900.1-2455. Astrophysical Journal, 2009, 698, L174-L177.	1.6	22
54	Detecting gravitational wave emission from the known accreting neutron stars. Monthly Notices of the Royal Astronomical Society, 2008, 389, 839-868.	1.6	154

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55	Coherence of Burst Oscillations and Accretion-Powered Pulsations in the Accreting Millisecond Pulsar XTE J1814-338. <i>Astrophysical Journal</i> , 2008, 688, L37-L40.	1.6	21
56	Modelling the spin equilibrium of neutron stars in low-mass X-ray binaries without gravitational radiation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005, 361, 1153-1164.	1.6	54