Andrew Melatos

List of Publications by Year in descending order

40 papers	1,020 citations	567281 15 h-index	414414 32 g-index
41 all docs	41 docs citations	41 times ranked	1550 citing authors

#	Article	IF	Citations
1	Models of pulsar glitches. International Journal of Modern Physics D, 2015, 24, 1530008.	2.1	228
2	Magnetars: Properties, Origin and Evolution. Space Science Reviews, 2015, 191, 315-338.	8.1	156
3	Realistic neutron star constraints on bosonic asymmetric dark matter. Physical Review D, 2013, 87, .	4.7	95
4	Directed searches for gravitational waves from ultralight bosons. Physical Review D, 2019, 99, .	4.7	65
5	Pulsar timing noise from superfluid turbulence. Monthly Notices of the Royal Astronomical Society, 2014, 437, 21-31.	4.4	61
6	Magnetic Field Generation in Stars. Space Science Reviews, 2015, 191, 77-109.	8.1	50
7	Stochastic gravitational wave background from hydrodynamic turbulence in differentially rotating neutron stars. Physical Review D, 2013, 87, .	4.7	41
8	Order out of Randomness: Self-Organization Processes in Astrophysics. Space Science Reviews, 2018, 214, 1.	8.1	38
9	Application of hidden Markov model tracking to the search for long-duration transient gravitational waves from the remnant of the binary neutron star merger GW170817. Physical Review D, 2019, 99, .	4.7	29
10	Tilted torus magnetic fields in neutron stars and their gravitational wave signatures. Physical Review D, 2013, 88, .	4.7	28
11	Origin of the Transient, Unpulsed Radio Emission from the PSR B1259â˜'63 Binary System. Astrophysical Journal, 1999, 514, L39-L42.	4.5	24
12	Testing modified gravity and no-hair relations for the Kerr-Newman metric through quasiperiodic oscillations of galactic microquasars. Physical Review D, 2016, 93, .	4.7	20
13	Search for gravitational waves from five low mass x-ray binaries in the second Advanced LIGO observing run with an improved hidden Markov model. Physical Review D, 2020, 102, .	4.7	18
14	Search for gravitational waves from 12 young supernova remnants with a hidden Markov model in Advanced LIGOâ€™s second observing run. Physical Review D, 2020, 102, .	4.7	15
15	Deep exploration for continuous gravitational waves at 171â€“172ÂHz in LIGO second observing run data. Physical Review D, 2021, 103, .	4.7	15
16	Loan and nonloan flows in the Australian interbank network. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 2867-2882.	2.6	13
17	Search strategies for long gravitational-wave transients: Hidden Markov model tracking and seedless clustering. Physical Review D, 2019, 100, .	4.7	12
18	Pulsar timing noise and the minimum observation time to detect gravitational waves with pulsar timing arrays. Monthly Notices of the Royal Astronomical Society, 2015, 449, 3293-3300.	4.4	11

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19	Search for continuous gravitational waves from ten H.E.S.S. sources using a hidden Markov model. Physical Review D, 2021, 103, .	4.7	11
20	Gravitational Waves from Rapidly Rotating Neutron Stars. Thirty Years of Astronomical Discovery With UKIRT, 2015, , 85-102.	0.3	9
21	Reconstructing gravitational wave core-collapse supernova signals with dynamic time warping. Physical Review D, 2019, 99, .	4.7	8
22	Parameter estimation of a two-component neutron star model with spin wandering. Monthly Notices of the Royal Astronomical Society, 2021, 502, 3113-3127.	4.4	8
23	Tracking continuous gravitational waves from a neutron star at once and twice the spin frequency with a hidden Markov model. Physical Review D, 2019, 99, .	4.7	7
24	Rapid parameter estimation of a two-component neutron star model with spin wandering using a Kalman filter. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	7
25	Phase-Continuous Frequency Line Track-Before-Detect of a Tone With Slow Frequency Variation. IEEE Transactions on Signal Processing, 2018, 66, 6434-6442.	5.3	6
26	Long-term Statistics of Pulsar Glitches Due to History-dependent Avalanches. Astrophysical Journal, 2021, 917, 1.	4.5	6
27	Memory on multiple time-scales in an Abelian sandpile. Physica A: Statistical Mechanics and Its Applications, 2015, 428, 295-301.	2.6	5
28	Ernst formulation of axisymmetric fields inf(R)gravity: Applications to neutron stars and gravitational waves. Physical Review D, 2016, 94, .	4.7	4
29	Causal properties of nonlinear gravitational waves in modified gravity. Physical Review D, 2017, 96, .	4.7	3
30	Discerning media bias within a network of political allies and opponents: The idealized example of a biased coin. Physica A: Statistical Mechanics and Its Applications, 2022, 590, 126722.	2.6	3
31	An estimate of the stochastic gravitational wave background from the MassiveBlackII simulation. Monthly Notices of the Royal Astronomical Society, 2022, 511, 5241-5250.	4.4	3
32	Gradient expansion technique for inhomogeneous, magnetized quark matter. European Physical Journal A, 2021, 57, 1.	2.5	2
33	Magnetic Field Generation in Stars. Space Sciences Series of ISSI, 2016, , 81-113.	0.0	2
34	Laplace transform analysis of a multiplicative asset transfer model. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 2782-2792.	2.6	1
35	Relativistic astrophysics at GR20. General Relativity and Gravitation, 2014, 46, 1.	2.0	1
36	Magnetars: Properties, Origin and Evolution. Space Sciences Series of ISSI, 2016, , 321-344.	0.0	1

#	Article	IF	Citations
37	Vacillating about media bias: Changing oneâ€™s mind intermittently within a network of political allies and opponents. Physica A: Statistical Mechanics and Its Applications, 2022, 604, 127829.	2.6	1
38	Transient radio emission from PSR B1259â€“63. International Astronomical Union Colloquium, 2000, 177, 529-530.	0.1	0
39	A Coherent, Nonlinear TEM Wave at a Pulsar Wind Termination Shock. AIP Conference Proceedings, 2005, , .	0.4	0
40	GRAVITATIONAL RADIATION FROM ACCRETING MILLISECOND PULSARS. , 2008, , .		0