

Sharon M Morsink

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9267653/publications.pdf>

Version: 2024-02-01

45
papers

6,003
citations

147801

31
h-index

254184

43
g-index

45
all docs

45
docs citations

45
times ranked

2588
citing authors

#	ARTICLE	IF	CITATIONS
1	PSR J0030+0451 Mass and Radius from NICER Data and Implications for the Properties of Neutron Star Matter. <i>Astrophysical Journal Letters</i> , 2019, 887, L24.	8.3	978
2	A NICER View of PSR J0030+0451: Millisecond Pulsar Parameter Estimation. <i>Astrophysical Journal Letters</i> , 2019, 887, L21.	8.3	914
3	The Radius of PSR J0740+6620 from NICER and XMM-Newton Data. <i>Astrophysical Journal Letters</i> , 2021, 918, L28.	8.3	556
4	A NICER View of the Massive Pulsar PSR J0740+6620 Informed by Radio Timing and XMM-Newton Spectroscopy. <i>Astrophysical Journal Letters</i> , 2021, 918, L27.	8.3	544
5	Gravitational Radiation Instability in Hot Young Neutron Stars. <i>Physical Review Letters</i> , 1998, 80, 4843-4846.	7.8	351
6	Correlations in the Quasi-periodic Oscillation Frequencies of Low-Mass X-Ray Binaries and the Relativistic Precession Model. <i>Astrophysical Journal</i> , 1999, 524, L63-L66.	4.5	341
7	Axial Instability of Rotating Relativistic Stars. <i>Astrophysical Journal</i> , 1998, 502, 714-720.	4.5	332
8	<i>Colloquium</i>: Measuring the neutron star equation of state using x-ray timing. <i>Reviews of Modern Physics</i> , 2016, 88, .	45.6	234
9	Saturation of the Mode Instability. <i>Astrophysical Journal</i> , 2003, 591, 1129-1151.	4.5	168
10	The Large Observatory for X-ray Timing (LOFT). <i>Experimental Astronomy</i> , 2012, 34, 415-444.	3.7	168
11	A NICER View of PSR J0030+0451: Implications for the Dense Matter Equation of State. <i>Astrophysical Journal Letters</i> , 2019, 887, L22.	8.3	162
12	The Oblate Schwarzschild Approximation for Light Curves of Rapidly Rotating Neutron Stars. <i>Astrophysical Journal</i> , 2007, 663, 1244-1251.	4.5	95
13	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.	8.3	95
14	Light Curves for Rapidly Rotating Neutron Stars. <i>Astrophysical Journal</i> , 2007, 654, 458-469.	4.5	89
15	Semiclassical gravity in 1+1 dimensions. <i>Physical Review D</i> , 1991, 43, 3948-3957.	4.7	87
16	Dense matter with eXTP. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019, 62, 1.	5.1	81
17	Relativistic Precession around Rotating Neutron Stars: Effects Due to Frame Dragging and Stellar Oblateness. <i>Astrophysical Journal</i> , 1999, 513, 827-844.	4.5	75
18	UNIVERSALITY OF THE ACCELERATION DUE TO GRAVITY ON THE SURFACE OF A RAPIDLY ROTATING NEUTRON STAR. <i>Astrophysical Journal</i> , 2014, 791, 78.	4.5	56

#	ARTICLE	IF	CITATIONS
19	MEASURING NEUTRON STAR RADII VIA PULSE PROFILE MODELING WITH NICER. <i>Astrophysical Journal</i> , 2016, 832, 92.	4.5	52
20	Limits on Mass and Radius for the Millisecond X-ray Pulsar SAX J1808.4-3658. <i>Astrophysical Journal</i> , 2008, 672, 1119-1126.	4.5	50
21	Black hole radiation of Dirac particles in 1+1 dimensions. <i>Classical and Quantum Gravity</i> , 1991, 8, 2257-2268.	4.0	41
22	Quasi-normal Modes of Rotating Relativistic Stars: Neutral Modes for Realistic Equations of State. <i>Astrophysical Journal</i> , 1999, 510, 854-861.	4.5	40
23	CONSTRAINTS ON THE MASS AND RADIUS OF THE NEUTRON STAR XTE J1807-294. <i>Astrophysical Journal</i> , 2011, 742, 17.	4.5	39
24	Covariant double-null dynamics: 2 + 2-splitting of the Einstein equations. <i>Classical and Quantum Gravity</i> , 1996, 13, 2211-2230.	4.0	37
25	CONSTRAINTS ON THE PROPERTIES OF THE NEUTRON STAR XTE J1814-338 FROM PULSE-SHAPE MODELS. <i>Astrophysical Journal</i> , 2009, 691, 1235-1242.	4.5	37
26	Late-time singularity inside nonspherical black holes. <i>Physical Review D</i> , 1998, 58, .	4.7	36
27	Pulse Shapes from Rapidly Rotating Neutron Stars: Equatorial Photon Orbits. <i>Astrophysical Journal</i> , 2005, 618, 451-462.	4.5	36
28	Rotational Broadening of Atomic Spectral Features from Neutron Stars. <i>Astrophysical Journal</i> , 2006, 636, L117-L120.	4.5	35
29	Hydrostatic Expansion and Spin Changes during Type I X-ray Bursts. <i>Astrophysical Journal</i> , 2002, 564, 343-352.	4.5	33
30	MULTI-EPOCH ANALYSIS OF PULSE SHAPES FROM THE NEUTRON STAR SAX J1808.4-3658. <i>Astrophysical Journal</i> , 2011, 726, 56.	4.5	32
31	ROTATIONAL CORRECTIONS TO NEUTRON-STAR RADIUS MEASUREMENTS FROM THERMAL SPECTRA. <i>Astrophysical Journal</i> , 2015, 799, 22.	4.5	31
32	Constraining the Neutron Star Mass-Radius Relation and Dense Matter Equation of State with NICER. III. Model Description and Verification of Parameter Estimation Codes. <i>Astrophysical Journal Letters</i> , 2021, 914, L15.	8.3	27
33	Structure of the inner singularity of a spherical black hole. <i>Physical Review D</i> , 1994, 50, 7372-7375.	4.7	24
34	THE IMPACT OF SURFACE TEMPERATURE INHOMOGENEITIES ON QUIESCENT NEUTRON STAR RADIUS MEASUREMENTS. <i>Astrophysical Journal</i> , 2016, 826, 162.	4.5	20
35	Nonlinear Couplings between Modes of Rotating Neutron Stars. <i>Astrophysical Journal</i> , 2002, 571, 435-446.	4.5	19
36	Normal Modes of Rotating Magnetic Stars. <i>Astrophysical Journal</i> , 2002, 574, 908-919.	4.5	18

#	ARTICLE	IF	CITATIONS
37	Quantum effects in black hole interiors. <i>Physical Review Letters</i> , 1993, 70, 1041-1044.	7.8	16
38	Black holes: the inside story. <i>Physics World</i> , 1996, 9, 34-37.	0.0	12
39	The Effect of Neutron Star Gravitational Binding Energy on Gravitational Radiationâ€‘driven Massâ€‘Transfer Binaries. <i>Astrophysical Journal</i> , 2004, 614, 914-921.	4.5	12
40	The highest frequency kHz QPOs in neutron star low-mass X-ray binaries. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 479, 426-434.	4.4	12
41	NEUTRON STAR MASSâ€‘RADIUS CONSTRAINTS USING EVOLUTIONARY OPTIMIZATION. <i>Astrophysical Journal</i> , 2016, 833, 244.	4.5	11
42	The internal evolution of black holes. <i>Canadian Journal of Physics</i> , 1994, 72, 755-759.	1.1	4
43	ASTROPHYSICS: Signs of Extreme Gravity. <i>Science</i> , 2000, 290, 945-946.	12.6	3
44	Surprises from rotating neutron stars. , 1999, , .		0
45	Time delays, Doppler effects and oblateness: results for the ms pulsar SAXJ1808-3658. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	0