

Sharon M Morsink

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	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
2	The Radius of PSR J0740+6620 from NICER and XMM-Newton Data. <i>Astrophysical Journal Letters</i> , 2021, 918, L28.	8.3	556
3	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
4	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
5	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
6	A NICER View of PSR J0030+0451: Millisecond Pulsar Parameter Estimation. <i>Astrophysical Journal Letters</i> , 2019, 887, L21.	8.3	914
7	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
8	Dense matter with eXTP. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019, 62, 1.	5.1	81
9	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
10	MEASURING NEUTRON STAR RADII VIA PULSE PROFILE MODELING WITH NICER. <i>Astrophysical Journal</i> , 2016, 832, 92.	4.5	52
11	THE IMPACT OF SURFACE TEMPERATURE INHOMOGENEITIES ON QUIESCENT NEUTRON STAR RADIUS MEASUREMENTS. <i>Astrophysical Journal</i> , 2016, 826, 162.	4.5	20
12	<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
13	NEUTRON STAR MASS–RADIUS CONSTRAINTS USING EVOLUTIONARY OPTIMIZATION. <i>Astrophysical Journal</i> , 2016, 833, 244.	4.5	11
14	ROTATIONAL CORRECTIONS TO NEUTRON-STAR RADIUS MEASUREMENTS FROM THERMAL SPECTRA. <i>Astrophysical Journal</i> , 2015, 799, 22.	4.5	31
15	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
16	The Large Observatory for X-ray Timing (LOFT). <i>Experimental Astronomy</i> , 2012, 34, 415-444.	3.7	168
17	MULTI-EPOCH ANALYSIS OF PULSE SHAPES FROM THE NEUTRON STAR SAX J1808.4–3658. <i>Astrophysical Journal</i> , 2011, 726, 56.	4.5	32
18	CONSTRAINTS ON THE MASS AND RADIUS OF THE NEUTRON STAR XTE J1807-294. <i>Astrophysical Journal</i> , 2011, 742, 17.	4.5	39

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19	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
20	Limits on Mass and Radius for the Millisecond-Period X-Ray Pulsar SAX J1808.4-3658. <i>Astrophysical Journal</i> , 2008, 672, 1119-1126.	4.5	50
21	Time delays, Doppler effects and oblateness: results for the ms pulsar SAXJ1808-3658. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	0
22	The Oblate Schwarzschild Approximation for Light Curves of Rapidly Rotating Neutron Stars. <i>Astrophysical Journal</i> , 2007, 663, 1244-1251.	4.5	95
23	Light Curves for Rapidly Rotating Neutron Stars. <i>Astrophysical Journal</i> , 2007, 654, 458-469.	4.5	89
24	Rotational Broadening of Atomic Spectral Features from Neutron Stars. <i>Astrophysical Journal</i> , 2006, 636, L117-L120.	4.5	35
25	Pulse Shapes from Rapidly Rotating Neutron Stars: Equatorial Photon Orbits. <i>Astrophysical Journal</i> , 2005, 618, 451-462.	4.5	36
26	The Effect of Neutron Star Gravitational Binding Energy on Gravitational Radiation-driven Mass-Transfer Binaries. <i>Astrophysical Journal</i> , 2004, 614, 914-921.	4.5	12
27	Saturation of the r -Mode Instability. <i>Astrophysical Journal</i> , 2003, 591, 1129-1151.	4.5	168
28	Hydrostatic Expansion and Spin Changes during Type I X-Ray Bursts. <i>Astrophysical Journal</i> , 2002, 564, 343-352.	4.5	33
29	Nonlinear Couplings between r -Modes of Rotating Neutron Stars. <i>Astrophysical Journal</i> , 2002, 571, 435-446.	4.5	19
30	Normal Modes of Rotating Magnetic Stars. <i>Astrophysical Journal</i> , 2002, 574, 908-919.	4.5	18
31	ASTROPHYSICS: Signs of Extreme Gravity. <i>Science</i> , 2000, 290, 945-946.	12.6	3
32	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
33	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
34	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
35	Surprises from rotating neutron stars. , 1999, , .		0
36	Gravitational Radiation Instability in Hot Young Neutron Stars. <i>Physical Review Letters</i> , 1998, 80, 4843-4846.	7.8	351

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37	Late-time singularity inside nonspherical black holes. <i>Physical Review D</i> , 1998, 58, .	4.7	36
38	Axial Instability of Rotating Relativistic Stars. <i>Astrophysical Journal</i> , 1998, 502, 714-720.	4.5	332
39	Black holes: the inside story. <i>Physics World</i> , 1996, 9, 34-37.	0.0	12
40	Covariant double-null dynamics: 2 + 2-splitting of the Einstein equations. <i>Classical and Quantum Gravity</i> , 1996, 13, 2211-2230.	4.0	37
41	The internal evolution of black holes. <i>Canadian Journal of Physics</i> , 1994, 72, 755-759.	1.1	4
42	Structure of the inner singularity of a spherical black hole. <i>Physical Review D</i> , 1994, 50, 7372-7375.	4.7	24
43	Quantum effects in black hole interiors. <i>Physical Review Letters</i> , 1993, 70, 1041-1044.	7.8	16
44	Black hole radiation of Dirac particles in 1+1 dimensions. <i>Classical and Quantum Gravity</i> , 1991, 8, 2257-2268.	4.0	41
45	Semiclassical gravity in 1+1 dimensions. <i>Physical Review D</i> , 1991, 43, 3948-3957.	4.7	87