## Jan Steinhoff

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Gravitational Bremsstrahlung and Hidden Supersymmetry of Spinning Bodies. Physical Review Letters, 2022, 128, 011101.	7.8	70
2	SUSY in the sky with gravitons. Journal of High Energy Physics, 2022, 2022, 1.	4.7	51
3	Conservative and radiative dynamics in classical relativistic scattering and bound systems. Physical Review Research, 2022, 4, .	3.6	34
4	High-accuracy simulations of highly spinning binary neutron star systems. Physical Review D, 2022, 105,	4.7	2
5	Gravitational waves from spinning binary black holes at the leading post-Newtonian orders at all orders in spin. , 2022, , .		0
6	Relativistic effective action of dynamical gravitomagnetic tides for slowly rotating neutron stars. Physical Review Research, 2021, 3, .	3.6	17
7	Classical black hole scattering from a worldline quantum field theory. Journal of High Energy Physics, 2021, 2021, 1.	4.7	119
8	Classical Gravitational Bremsstrahlung from a Worldline Quantum Field Theory. Physical Review Letters, 2021, 126, 201103.	7.8	96
9	Radiation-reaction force and multipolar waveforms for eccentric, spin-aligned binaries in the effective-one-body formalism. Physical Review D, 2021, 104, .	4.7	30
10	Spin effects on neutron star fundamental-mode dynamical tides: Phenomenology and comparison to numerical simulations. Physical Review Research, 2021, 3, .	3.6	35
11	Complete conservative dynamics for inspiralling compact binaries with spins at the fourth post-Newtonian order. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 029.	5.4	29
12	Tidal response from scattering and the role of analytic continuation. Physical Review D, 2021, 104, .	4.7	17
13	Quasicircular inspirals and plunges from nonspinning effective-one-body Hamiltonians with gravitational self-force information. Physical Review D, 2020, 101, .	4.7	34
14	Detweiler's redshift invariant for extended bodies orbiting a Schwarzschild black hole. Physical Review D, 2020, 102, .	4.7	8
15	Fourth post-Newtonian effective-one-body Hamiltonians with generic spins. Physical Review D, 2020, 101, .	4.7	16
16	Gravitational spin-orbit and aligned <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"&gt;<mml:mrow><mml:msub><mml:mrow><mml:mi>spin</mml:mi></mml:mrow><mml:mrow>&lt; couplings through third-subleading post-Newtonian orders. Physical Review D, 2020, 102, .</mml:mrow></mml:msub></mml:mrow></mml:math>	:mml#n <b>7</b> n>1	s5i:mn>
17	Gravitational Spin-Orbit Coupling through Third-Subleading Post-Newtonian Order: From First-Order Self-Force to Arbitrary Mass Ratios. Physical Review Letters, 2020, 125, 011103.	7.8	37
18	Spinning-black-hole scattering and the test-black-hole limit at second post-Minkowskian order.	4.7	91

Physical Review D, 2019, 99, .

4.7 91

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19	Breakdown of the classical double copy for the effective action of dilaton-gravity at NNLO. Physical Review D, 2019, 100, .	4.7	44
20	Effective action of dilaton gravity as the classical double copy of Yang-Mills theory. Physical Review D, 2019, 99, .	4.7	71
21	Energetics of two-body Hamiltonians in post-Minkowskian gravity. Physical Review D, 2019, 99, .	4.7	107
22	Hamiltonians and canonical coordinates for spinning particles in curved space-time. Classical and Quantum Gravity, 2019, 36, 075003.	4.0	26
23	Theory-agnostic framework for dynamical scalarization of compact binaries. Physical Review D, 2019, 100, .	4.7	18
24	Spin-multipole effects in binary black holes and the test-body limit. Physical Review D, 2018, 97, .	4.7	28
25	Hairy binary black holes in Einstein-Maxwell-dilaton theory and their effective-one-body description. Physical Review D, 2018, 98, .	4.7	31
26	Gravitational waves from spinning binary black holes at the leading post-Newtonian orders at all orders in spin. Physical Review D, 2018, 97, .	4.7	15
27	Effective action model of dynamically scalarizing binary neutron stars. Physical Review D, 2017, 96, .	4.7	26
28	EFTofPNG: a package for high precision computation with the effective field theory of post-Newtonian gravity. Classical and Quantum Gravity, 2017, 34, 244001.	4.0	26
29	Distinguishing boson stars from black holes and neutron stars from tidal interactions in inspiraling binary systems. Physical Review D, 2017, 96, .	4.7	119
30	Spin effects on the dynamics of compact binaries. , 2017, , .		0
31	Effects of Neutron-Star Dynamic Tides on Gravitational Waveforms within the Effective-One-Body Approach. Physical Review Letters, 2016, 116, 181101.	7.8	204
32	Canonical Hamiltonian for an extended test body in curved spacetime: To quadratic order in spin. Physical Review D, 2016, 93, .	4.7	47
33	Dynamical tides in general relativity: Effective action and effective-one-body Hamiltonian. Physical Review D, 2016, 94, .	4.7	151
34	Next-to-next-to-leading order gravitational spin-squared potential via the effective field theory for spinning objects in the post-Newtonian scheme. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 008-008.	5.4	72
35	Next-to-next-to-leading order gravitational spin-orbit coupling via the effective field theory for spinning objects in the post-Newtonian scheme. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 011-011.	5.4	70
36	Leading order finite size effects with spins for inspiralling compact binaries. Journal of High Energy Physics, 2015, 2015, 1.	4.7	78

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37	Spinning gravitating objects in the effective field theory in the post-Newtonian scheme. Journal of High Energy Physics, 2015, 2015, 1.	4.7	123
38	Spin and Quadrupole Contributions to the Motion of Astrophysical Binaries. Fundamental Theories of Physics, 2015, , 615-649.	0.3	15
39	Equivalence of ADM Hamiltonian and Effective Field Theory approaches at next-to-next-to-leading order spin1-spin2 coupling of binary inspirals. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 003-003.	5.4	91
40	<mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"&gt;<mml:mrow><mml:mi>I</mml:mi><mml:mtext>â^^</mml:mtext><mml:mi>Q</mml:mi>for Rapidly Rotating Neutron Stars. Physical Review Letters, 2014, 112, .</mml:mrow></mml:math>	∽ <b>o7‰⊗</b> <td>nl<b>æg</b>ath&gt;Rela</td>	nl <b>æg</b> ath>Rela
41	Effective action and linear response of compact objects in Newtonian gravity. Physical Review D, 2013, 88, .	4.7	30
42	Nextâ€ŧoâ€nextâ€ŧoâ€leading order postâ€Newtonian linearâ€inâ€spin binary Hamiltonians. Annalen Der Physik, 525, 359-394.	2013, 2.4	52
43	Canonical angles in a compact binary star system with spinning components: Approximative solution through next-to-leading-order spin-orbit interaction for circular orbits. Physical Review D, 2013, 87, .	4.7	11
44	Influence of internal structure on the motion of test bodies in extreme mass ratio situations. Physical Review D, 2012, 86, .	4.7	60
45	Elimination of the spin supplementary condition in the effective field theory approach to the post-Newtonian approximation. Annals of Physics, 2012, 327, 1494-1537.	2.8	20
46	New Insights on the Matter-Gravity Coupling Paradigm. Physical Review Letters, 2012, 109, 021101.	7.8	124
47	Leading-order spin-orbit and spin(1)-spin(2) radiation-reaction Hamiltonians. Physical Review D, 2011, 84,	4.7	19
48	Next-to-leading order spin-orbit and spin(a)-spin(b) Hamiltonians forngravitating spinning compact objects. Physical Review D, 2011, 83, .	4.7	22
49	The reduced Hamiltonian for next-to-leading-order spin-squared dynamics of general compact binaries. Classical and Quantum Gravity, 2010, 27, 135007.	4.0	62
50	Canonical formulation of gravitating spinning objects at 3.5 post-Newtonian order. Physical Review D, 2010, 81, .	4.7	22
51	Multipolar equations of motion for extended test bodies in general relativity. Physical Review D, 2010, 81, .	4.7	77
52	Canonical formulation of self-gravitating spinning-object systems. Europhysics Letters, 2009, 87, 50004.	2.0	38
53	Comment on two recent papers regarding next-to-leading order spin-spin effects in gravitational interaction. Physical Review D, 2009, 80, .	4.7	22
54	Spin-squared Hamiltonian of next-to-leading order gravitational interaction. Physical Review D, 2008, 78, .	4.7	97

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55	Next-to-leading order gravitational spin(1)-spin(2) dynamics in Hamiltonian form. Physical Review D, 2008, 77, .	4.7	93
56	ADM canonical formalism for gravitating spinning objects. Physical Review D, 2008, 77, .	4.7	92
57	A High-Energy Take on Black Hole Encounters. Physics Magazine, 0, 13, .	0.1	0