

Jan Steinhoff

List of Publications by Year in descending order

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57
papers

3,013
citations

136950

32
h-index

161849

54
g-index

57
all docs

57
docs citations

57
times ranked

1319
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of Neutron-Star Dynamic Tides on Gravitational Waveforms within the Effective-One-Body Approach. Physical Review Letters, 2016, 116, 181101.	7.8	204
2	Dynamical tides in general relativity: Effective action and effective-one-body Hamiltonian. Physical Review D, 2016, 94, .	4.7	151
3	New Insights on the Matter-Gravity Coupling Paradigm. Physical Review Letters, 2012, 109, 021101.	7.8	124
4	Spinning gravitating objects in the effective field theory in the post-Newtonian scheme. Journal of High Energy Physics, 2015, 2015, 1.	4.7	123
5	Distinguishing boson stars from black holes and neutron stars from tidal interactions in inspiraling binary systems. Physical Review D, 2017, 96, .	4.7	119
6	Classical black hole scattering from a worldline quantum field theory. Journal of High Energy Physics, 2021, 2021, 1.	4.7	119
7	Energetics of two-body Hamiltonians in post-Minkowskian gravity. Physical Review D, 2019, 99, .	4.7	107
8	Spin-squared Hamiltonian of next-to-leading order gravitational interaction. Physical Review D, 2008, 78, .	4.7	97
9	Classical Gravitational Bremsstrahlung from a Worldline Quantum Field Theory. Physical Review Letters, 2021, 126, 201103.	7.8	96
10	Next-to-leading order gravitational spin(1)-spin(2) dynamics in Hamiltonian form. Physical Review D, 2008, 77, .	4.7	93
11	ADM canonical formalism for gravitating spinning objects. Physical Review D, 2008, 77, .	4.7	92
12	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
13	Spinning-black-hole scattering and the test-black-hole limit at second post-Minkowskian order. Physical Review D, 2019, 99, .	4.7	91
14	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \langle \text{mml:mrow}> \langle \text{mml:mi}> l \langle \text{mml:mi}> \langle \text{mml:mtext}> \hat{a}^{\nu} \langle \text{mml:mtext}> \langle \text{mml:mi}> Q \langle \text{mml:mi}> \langle \text{mml:mrow}> \langle \text{mml:math}> \text{Rela}$ for Rapidly Rotating Neutron Stars. Physical Review Letters, 2014, 112, .	4.7	89
15	Leading order finite size effects with spins for inspiralling compact binaries. Journal of High Energy Physics, 2015, 2015, 1.	4.7	78
16	Multipolar equations of motion for extended test bodies in general relativity. Physical Review D, 2010, 81, .	4.7	77
17	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
18	Effective action of dilaton gravity as the classical double copy of Yang-Mills theory. Physical Review D, 2019, 99, .	4.7	71

#	ARTICLE	IF	CITATIONS
37	Spin-multipole effects in binary black holes and the test-body limit. <i>Physical Review D</i> , 2018, 97, .	4.7	28
38	Effective action model of dynamically scalarizing binary neutron stars. <i>Physical Review D</i> , 2017, 96, .	4.7	26
39	EFTofPNG: a package for high precision computation with the effective field theory of post-Newtonian gravity. <i>Classical and Quantum Gravity</i> , 2017, 34, 244001.	4.0	26
40	Hamiltonians and canonical coordinates for spinning particles in curved space-time. <i>Classical and Quantum Gravity</i> , 2019, 36, 075003.	4.0	26
41	Comment on two recent papers regarding next-to-leading order spin-spin effects in gravitational interaction. <i>Physical Review D</i> , 2009, 80, .	4.7	22
42	Canonical formulation of gravitating spinning objects at 3.5 post-Newtonian order. <i>Physical Review D</i> , 2010, 81, .	4.7	22
43	Next-to-leading order spin-orbit and spin(a)-spin(b) Hamiltonians for gravitating spinning compact objects. <i>Physical Review D</i> , 2011, 83, .	4.7	22
44	Elimination of the spin supplementary condition in the effective field theory approach to the post-Newtonian approximation. <i>Annals of Physics</i> , 2012, 327, 1494-1537.	2.8	20
45	Leading-order spin-orbit and spin(1)-spin(2) radiation-reaction Hamiltonians. <i>Physical Review D</i> , 2011, 84, .	4.7	19
46	Theory-agnostic framework for dynamical scalarization of compact binaries. <i>Physical Review D</i> , 2019, 100, .	4.7	18
47	Relativistic effective action of dynamical gravitomagnetic tides for slowly rotating neutron stars. <i>Physical Review Research</i> , 2021, 3, .	3.6	17
48	Tidal response from scattering and the role of analytic continuation. <i>Physical Review D</i> , 2021, 104, .	4.7	17
49	Fourth post-Newtonian effective-one-body Hamiltonians with generic spins. <i>Physical Review D</i> , 2020, 101, .	4.7	16
50	Gravitational waves from spinning binary black holes at the leading post-Newtonian orders at all orders in spin. <i>Physical Review D</i> , 2018, 97, .	4.7	15
51	Spin and Quadrupole Contributions to the Motion of Astrophysical Binaries. <i>Fundamental Theories of Physics</i> , 2015, , 615-649.	0.3	15
52	Canonical angles in a compact binary star system with spinning components: Approximative solution through next-to-leading-order spin-orbit interaction for circular orbits. <i>Physical Review D</i> , 2013, 87, .	4.7	11
53	Detweiler's redshift invariant for extended bodies orbiting a Schwarzschild black hole. <i>Physical Review D</i> , 2020, 102, .	4.7	8
54	High-accuracy simulations of highly spinning binary neutron star systems. <i>Physical Review D</i> , 2022, 105, .	4.7	2

#	ARTICLE	IF	CITATIONS
55	Spin effects on the dynamics of compact binaries. , 2017, , .		0
56	A High-Energy Take on Black Hole Encounters. Physics Magazine, 0, 13, .	0.1	0
57	Gravitational waves from spinning binary black holes at the leading post-Newtonian orders at all orders in spin. , 2022, , .		0