

Helvi Witek

List of Publications by Year in descending order

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36
papers

3,070
citations

257450

24
h-index

361022

35
g-index

36
all docs

36
docs citations

36
times ranked

2353
citing authors

#	ARTICLE	IF	CITATIONS
1	Testing general relativity with present and future astrophysical observations. Classical and Quantum Gravity, 2015, 32, 243001.	4.0	943
2	Black holes, gravitational waves and fundamental physics: a roadmap. Classical and Quantum Gravity, 2019, 36, 143001.	4.0	451
3	Prospects for fundamental physics with LISA. General Relativity and Gravitation, 2020, 52, 1.	2.0	198
4	Superradiant instabilities in astrophysical systems. Physical Review D, 2013, 87, .	4.7	178
5	Black holes and binary mergers in scalar Gauss-Bonnet gravity: Scalar field dynamics. Physical Review D, 2019, 99, .	4.7	131
6	The missing link in gravitational-wave astronomy: discoveries waiting in the decihertz range. Classical and Quantum Gravity, 2020, 37, 215011.	4.0	90
7	New horizons for fundamental physics with LISA. Living Reviews in Relativity, 2022, 25, .	26.7	82
8	Black holes and fundamental fields in numerical relativity: Initial data construction and evolution of bound states. Physical Review D, 2014, 89, .	4.7	79
9	Black hole hair formation in shift-symmetric generalised scalar-tensor gravity. Classical and Quantum Gravity, 2017, 34, 064001.	4.0	77
10	Nonlinear interactions between black holes and Proca fields. Classical and Quantum Gravity, 2015, 32, 234003.	4.0	68
11	Initial value formulation of dynamical Chern-Simons gravity. Physical Review D, 2015, 91, .	4.7	66
12	Dynamical Descalarization in Binary Black Hole Mergers. Physical Review Letters, 2021, 127, 031101.	7.8	65
13	Axionic instabilities and new black hole solutions. Physical Review D, 2019, 99, .	4.7	59
14	Dynamical scalar hair formation around a Schwarzschild black hole. Physical Review D, 2016, 94, .	4.7	57
15	Collisions of unequal mass black holes and the point particle limit. Physical Review D, 2011, 84, .	4.7	55
16	Numerical relativity for D dimensional space-times: Head-on collisions of black holes and gravitational wave extraction. Physical Review D, 2010, 82, .	4.7	51
17	Numerical relativity for D dimensional axially symmetric space-times: Formalism and code tests. Physical Review D, 2010, 81, .	4.7	51
18	NR/HEP: roadmap for the future. Classical and Quantum Gravity, 2012, 29, 244001.	4.0	50

#	ARTICLE	IF	CITATIONS
19	Post-Newtonian gravitational and scalar waves in scalar-Gauss-Bonnet gravity. <i>Classical and Quantum Gravity</i> , 2022, 39, 035002.	4.0	44
20	Black holes in a box: Toward the numerical evolution of black holes in AdS space-times. <i>Physical Review D</i> , 2010, 82, .	4.7	35
21	Impact of multiple modes on the black-hole superradiant instability. <i>Physical Review D</i> , 2019, 99, .	4.7	34
22	Projecting the likely importance of weak-interaction-driven bulk viscosity in neutron star mergers. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 509, 1096-1108.	4.4	34
23	Towards numerical relativity in scalar Gauss-Bonnet gravity: $\langle \text{mml:mn} \rangle^3 \langle \text{mml:mo} \rangle + \langle \text{mml:mn} \rangle^1 \langle \text{mml:mn} \rangle$ decomposition beyond the small-coupling limit. <i>Physical Review D</i> , 2020, 101, .	4.7	31
24	Nonlinear curvature effects in gravitational waves from inspiralling black hole binaries. <i>Physical Review D</i> , 2021, 103, .	4.7	29
25	Evolution of black hole shadows from superradiance. <i>Physical Review D</i> , 2020, 101, .	4.7	17
26	Square Peg in a Circular Hole: Choosing the Right Ansatz for Isolated Black Holes in Generic Gravitational Theories. <i>Physical Review Letters</i> , 2021, 126, 241104.	7.8	17
27	Higher-dimensional puncture initial data. <i>Physical Review D</i> , 2011, 84, .	4.7	15
28	The missing link in gravitational-wave astronomy. <i>Experimental Astronomy</i> , 2021, 51, 1427-1440.	3.7	15
29	Stability of the puncture method with a generalized Baumgarte-Shapiro-Shibata-Nakamura formulation. <i>Physical Review D</i> , 2011, 83, .	4.7	12
30	Petrov type, principal null directions, and Killing tensors of slowly rotating black holes in quadratic gravity. <i>Physical Review D</i> , 2021, 103, .	4.7	11
31	Higher dimensional numerical relativity: Code comparison. <i>Physical Review D</i> , 2014, 90, .	4.7	10
32	How do spherical black holes grow monopole hair?. <i>Physical Review D</i> , 2022, 105, .	4.7	9
33	Numerical relativity in higher dimensions. <i>Journal of Physics: Conference Series</i> , 2010, 229, 012074.	0.4	2
34	Simulations of black holes in compactified spacetimes. <i>Journal of Physics: Conference Series</i> , 2011, 314, 012103.	0.4	2
35	Numerical Relativity in D -dimensional space-times: Collisions of unequal mass black holes. <i>Journal of Physics: Conference Series</i> , 2011, 314, 012104.	0.4	2
36	BLACK HOLES IN A BOX. , 2012, , .		0