

# Georgios Lukes-Gerakopoulos

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5426692/publications.pdf>

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41  
papers

839  
citations

430874

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h-index

477307

29  
g-index

42  
all docs

42  
docs citations

42  
times ranked

513  
citing authors

#	ARTICLE	IF	CITATIONS
1	How to Observe a Non-Kerr Spacetime Using Gravitational Waves. <i>Physical Review Letters</i> , 2009, 103, 111101.	7.8	84
2	Observable signature of a background deviating from the Kerr metric. <i>Physical Review D</i> , 2010, 81, .	4.7	75
3	Spinning test body orbiting around a Schwarzschild black hole: Circular dynamics and gravitational-wave fluxes. <i>Physical Review D</i> , 2016, 94, .	4.7	56
4	Nonintegrability of the Zipoy-Voorhees metric. <i>Physical Review D</i> , 2012, 86, .	4.7	52
5	Spinning test body orbiting around a Kerr black hole: Circular dynamics and gravitational-wave fluxes. <i>Physical Review D</i> , 2017, 96, .	4.7	44
6	Asymptotic gravitational wave fluxes from a spinning particle in circular equatorial orbits around a rotating black hole. <i>Physical Review D</i> , 2016, 93, .	4.7	43
7	Investigating spinning test particles: Spin supplementary conditions and the Hamiltonian formalism. <i>Physical Review D</i> , 2014, 90, .	4.7	39
8	Growth of resonances and chaos for a spinning test particle in the Schwarzschild background. <i>Physical Review D</i> , 2020, 101, .	4.7	32
9	ORBITS IN A NON-KERR DYNAMICAL SYSTEM. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2011, 21, 2261-2277.	1.7	31
10	Spinning particles in general relativity: Momentum-velocity relation for the Mathisson-Pirani spin condition. <i>Physical Review D</i> , 2018, 97, .	4.7	29
11	Probing the nature of black holes: Deep in the mHz gravitational-wave sky. <i>Experimental Astronomy</i> , 2021, 51, 1385-1416.	3.7	29
12	Symmetric integrator for nonintegrable Hamiltonian relativistic systems. <i>Physical Review D</i> , 2012, 86, .	4.7	26
13	Hamiltonians and canonical coordinates for spinning particles in curved space-time. <i>Classical and Quantum Gravity</i> , 2019, 36, 075003.	4.0	26
14	Testing the existence of regions of stable orbits at small radii around black hole candidates. <i>Physical Review D</i> , 2013, 87, .	4.7	24
15	The production of Tsallis entropy in the limit of weak chaos and a new indicator of chaoticity. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008, 387, 1907-1925.	2.6	23
16	Periodic orbits and escapes in dynamical systems. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2012, 113, 255-278.	1.4	23
17	Factorization and resummation: A new paradigm to improve gravitational wave amplitudes. III. The spinning test-body terms. <i>Physical Review D</i> , 2019, 100, .	4.7	21
18	Dynamics and constraints of the unified dark matter flat cosmologies. <i>Physical Review D</i> , 2008, 78, .	4.7	19

#	ARTICLE	IF	CITATIONS
19	Time parameterizations and spin supplementary conditions of the Mathisson-Papapetrou-Dixon equations. <i>Physical Review D</i> , 2017, 96, .	4.7	17
20	Dynamics of a spinning particle in a linear in spin Hamiltonian approximation. <i>Physical Review D</i> , 2016, 94, .	4.7	16
21	Comparing Hamiltonians of a spinning test particle for different tetrad fields. <i>Physical Review D</i> , 2016, 93, .	4.7	16
22	Spinning test body orbiting around a Kerr black hole: Eccentric equatorial orbits and their asymptotic gravitational-wave fluxes. <i>Physical Review D</i> , 2021, 103, .	4.7	16
23	Adjusting chaotic indicators to curved spacetimes. <i>Physical Review D</i> , 2014, 89, .	4.7	14
24	Dynamics and chaos in the unified scalar field cosmology. <i>Physical Review D</i> , 2008, 77, .	4.7	13
25	Recurrence analysis as a tool to study chaotic dynamics of extreme mass ratio inspiral in signal with noise. <i>International Journal of Modern Physics D</i> , 2018, 27, 1850010.	2.1	12
26	Classes of nonminimally coupled scalar fields in spatially curved FRW spacetimes. <i>Physical Review D</i> , 2019, 99, .	4.7	10
27	Spinning test body orbiting around a Schwarzschild black hole: Comparing spin supplementary conditions for circular equatorial orbits. <i>Physical Review D</i> , 2021, 104, .	4.7	10
28	Adiabatic equatorial inspirals of a spinning body into a Kerr black hole. <i>Physical Review D</i> , 2022, 105, .	4.7	10
29	Dynamics of classes of barotropic fluids in spatially curved FRW spacetimes. <i>Physical Review D</i> , 2020, 101, .	4.7	6
30	Mind the Resonances: Final stages of accretion into bumpy black holes. <i>Journal of Physics: Conference Series</i> , 2013, 453, 012005.	0.4	3
31	On integrability of certain rank 2 sub-Riemannian structures. <i>Regular and Chaotic Dynamics</i> , 2017, 22, 502-519.	0.8	3
32	Nonlinear Effects in EMRI Dynamics and Their Imprints on Gravitational Waves. , 2021, , 1-44.		3
33	Comment on "Chaotic orbits for spinning particles in Schwarzschild spacetime". <i>Physical Review D</i> , 2016, 94, .	4.7	2
34	Dynamics and chaos in the unified scalar field cosmology. II. System in a finite box. <i>Physical Review D</i> , 2017, 95, .	4.7	2
35	Comment on "Nonexistence of the final first integral in the Zipoy-Voorhees space-time". <i>Physical Review D</i> , 2013, 88, .	4.7	1
36	Relativistic astrophysics at GR20. <i>General Relativity and Gravitation</i> , 2014, 46, 1.	2.0	1

#	ARTICLE	IF	CITATIONS
37	Spinning particles moving around black holes: Integrability and chaos. , 2017, , .		1
38	An observational criterion to look for an inspiral in a non-Kerr spacetime. Journal of Physics: Conference Series, 2009, 189, 012002.	0.4	0
39	Searching for non-Kerr objects. Journal of Physics: Conference Series, 2011, 283, 012002.	0.4	0
40	Publisher's Note: Spinning test body orbiting around a Schwarzschild black hole: Circular dynamics and gravitational-wave fluxes [Phys. Rev. D 94 , 104010 (2016)]. Physical Review D, 2019, 100, .	4.7	0
41	Nonlinear Effects in EMRI Dynamics and Their Imprints on Gravitational Waves. , 2022, , 1625-1668.		0