

# Thomas P Sotiriou

## List of Publications by Year in descending order

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Version: 2024-02-01

100  
papers

11,802  
citations

38742

50  
h-index

32842

100  
g-index

102  
all docs

102  
docs citations

102  
times ranked

3922  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ghost of vector fields in compact stars. <i>Physical Review D</i> , 2022, 105, .	4.7	22
2	Detecting fundamental fields with LISA observations of gravitational waves from extreme mass-ratio inspirals. <i>Nature Astronomy</i> , 2022, 6, 464-470.	10.1	39
3	New horizons for fundamental physics with LISA. <i>Living Reviews in Relativity</i> , 2022, 25, .	26.7	82
4	Compact object scalarization with general relativity as a cosmic attractor. <i>Physical Review D</i> , 2021, 103, .	4.7	17
5	Spin-Induced Scalarized Black Holes. <i>Physical Review Letters</i> , 2021, 126, 011103.	7.8	128
6	Numerical black hole solutions in modified gravity theories: Axial symmetry case. <i>Physical Review D</i> , 2021, 103, .	4.7	16
7	Black hole scalarization with Gauss-Bonnet and Ricci scalar couplings. <i>Physical Review D</i> , 2021, 104, .	4.7	24
8	Probing the nature of black holes: Deep in the mHz gravitational-wave sky. <i>Experimental Astronomy</i> , 2021, 51, 1385-1416.	3.7	29
9	Neutron star scalarization with Gauss-Bonnet and Ricci scalar couplings. <i>Physical Review D</i> , 2021, 104, .	4.7	8
10	Detecting Scalar Fields with Extreme Mass Ratio Inspirals. <i>Physical Review Letters</i> , 2020, 125, 141101.	7.8	38
11	Onset of spontaneous scalarization in generalized scalar-tensor theories. <i>Physical Review D</i> , 2020, 102, .	4.7	27
12	Prospects for fundamental physics with LISA. <i>General Relativity and Gravitation</i> , 2020, 52, 1.	2.0	198
13	Spin-Induced Black Hole Spontaneous Scalarization. <i>Physical Review Letters</i> , 2020, 125, 231101.	7.8	120
14	Cosmology with subdominant Horndeski scalar field. <i>Physical Review D</i> , 2020, 101, .	4.7	10
15	Numerical black hole solutions in modified gravity theories: Spherical symmetry case. <i>Physical Review D</i> , 2020, 101, .	4.7	17
16	Black holes, gravitational waves and fundamental physics: a roadmap. <i>Classical and Quantum Gravity</i> , 2019, 36, 143001.	4.0	451
17	Classification of shift-symmetric Horndeski theories and hairy black holes. <i>Physical Review D</i> , 2019, 99, .	4.7	21
18	Spontaneous scalarization in generalized scalar-tensor theory. <i>Physical Review D</i> , 2019, 99, .	4.7	60

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19	Multipole moments and universal relations for scalarized neutron stars. <i>Physical Review D</i> , 2019, 99, .	4.7	11
20	Self-interactions and spontaneous black hole scalarization. <i>Physical Review D</i> , 2019, 99, .	4.7	104
21	Black holes and binary mergers in scalar Gauss-Bonnet gravity: Scalar field dynamics. <i>Physical Review D</i> , 2019, 99, .	4.7	131
22	Stability of scalarized black hole solutions in scalar-Gauss-Bonnet gravity. <i>Physical Review D</i> , 2019, 99, .	4.7	121
23	Detecting Lorentz Violations with Gravitational Waves From Black Hole Binaries. <i>Physical Review Letters</i> , 2018, 120, .	7.8	19
24	Hořava gravity after GW170817. <i>Physical Review D</i> , 2018, 97, .	4.7	84
25	Spontaneous Scalarization of Black Holes and Compact Stars from a Gauss-Bonnet Coupling. <i>Physical Review Letters</i> , 2018, 120, 131104.	7.8	391
26	Constructing neutron stars with a gravitational Higgs mechanism. <i>Physical Review D</i> , 2018, 97, .	4.7	7
27	Causal structure of black holes in shift-symmetric Horndeski theories. <i>Physical Review D</i> , 2018, 98, .	4.7	10
28	Revisiting the cuscuton as a Lorentz-violating gravity theory. <i>Physical Review D</i> , 2018, 97, .	4.7	19
29	Dynamical obstruction to perpetual motion from Lorentz-violating black holes. <i>Physical Review D</i> , 2018, 98, .	4.7	6
30	Black hole hair formation in shift-symmetric generalised scalar-tensor gravity. <i>Classical and Quantum Gravity</i> , 2017, 34, 064001.	4.0	77
31	Gravitational Higgs mechanism in neutron star interiors. <i>Physical Review D</i> , 2017, 95, .	4.7	13
32	Black hole horizons at the extremal limit in Lorentz-violating gravity. <i>Physical Review D</i> , 2017, 96, .	4.7	1
33	Dynamical scalar hair formation around a Schwarzschild black hole. <i>Physical Review D</i> , 2016, 94, .	4.7	57
34	Extrinsic curvature in two-dimensional causal dynamical triangulation. <i>Physical Review D</i> , 2016, 94, .	4.7	6
35	Slowly rotating black holes in Einstein-Äther theory. <i>Physical Review D</i> , 2016, 93, .	4.7	70
36	Evolution and spherical collapse in Einstein-Äther theory and Hořava gravity. <i>Physical Review D</i> , 2016, 93, .	4.7	17

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37	Causality and black holes in spacetimes with a preferred foliation. <i>Classical and Quantum Gravity</i> , 2016, 33, 235003.	4.0	29
38	Uninvited guest in mixed derivative Ho <sup>À</sup> ava gravity. <i>Physical Review D</i> , 2016, 94, .	4.7	7
39	Ho <sup>À</sup> ava gravity with mixed derivative terms: Power counting renormalizability with lower order dispersions. <i>Physical Review D</i> , 2015, 92, .	4.7	12
40	Black holes and scalar fields. <i>Classical and Quantum Gravity</i> , 2015, 32, 214002.	4.0	112
41	Ho <sup>À</sup> ava gravity with mixed derivative terms. <i>Physical Review D</i> , 2015, 91, .	4.7	19
42	Multipole moments in scalar-tensor theory of gravity. <i>Physical Review D</i> , 2015, 91, .	4.7	32
43	Geodesic properties in terms of multipole moments in scalar tensor theories of gravity: Table 1.. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 453, 2863-2877.	4.4	22
44	Gravity and Scalar Fields. <i>Lecture Notes in Physics</i> , 2015, , 3-24.	0.7	36
45	Rotating black holes in three-dimensional Ho <sup>À</sup> ava gravity. <i>Physical Review D</i> , 2014, 90, .	4.7	42
46	Black hole hair in generalized scalar-tensor gravity: An explicit example. <i>Physical Review D</i> , 2014, 90, .	4.7	272
47	Black Hole Hair in Generalized Scalar-Tensor Gravity. <i>Physical Review Letters</i> , 2014, 112, 251102.	7.8	343
48	Gravity with auxiliary fields. <i>Physical Review D</i> , 2013, 88, .	4.7	38
49	Black Holes with Surrounding Matter in Scalar-Tensor Theories. <i>Physical Review Letters</i> , 2013, 111, 111101.	7.8	112
50	Gradient expansion of superhorizon perturbations in G-inflation. <i>Journal of Cosmology and Astroparticle Physics</i> , 2013, 2013, 020-020.	5.4	7
51	Black holes in Lorentz-violating gravity theories. <i>Classical and Quantum Gravity</i> , 2013, 30, 244010.	4.0	85
52	Slowly rotating black holes in Ho <sup>À</sup> ava-Lifshitz gravity. <i>Physical Review D</i> , 2013, 87, .	4.7	78
53	Matter around Kerr black holes in scalar-tensor theories: Scalarization and superradiant instability. <i>Physical Review D</i> , 2013, 88, .	4.7	92
54	Ho <sup>À</sup> ava-Lifshitz gravity with detailed balance. <i>Journal of Physics: Conference Series</i> , 2013, 453, 012022.	0.4	13

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55	Black Holes in Scalar-Tensor Gravity. Physical Review Letters, 2012, 108, 081103.	7.8	303
56	Scale Hierarchy in Hořava-Lifshitz Gravity: Strong Constraint from Synchrotron Radiation in the Crab Nebula. Physical Review Letters, 2012, 109, 151602.	7.8	43
57	No-Go Theorem for Slowly Rotating Black Holes in Hořava-Lifshitz Gravity. Physical Review Letters, 2012, 109, 181101.	7.8	43
58	Hořava-Lifshitz gravity: Detailed balance revisited. Physical Review D, 2012, 85, .	4.7	32
59	Dynamical apparent horizons in inhomogeneous Brans-Dicke universes. Physical Review D, 2012, 86, .	4.7	15
60	Surface Singularities in Eddington-Inspired Born-Infeld Gravity. Physical Review Letters, 2012, 109, 251102.	7.8	114
61	Black holes in Einstein-aether and Hořava-Lifshitz gravity. Physical Review D, 2011, 83, .	4.7	190
62	Generalizations of teleparallel gravity and local Lorentz symmetry. Physical Review D, 2011, 83, .	4.7	226
63	83, .		
64	The dynamics of metric-affine gravity. Annals of Physics, 2011, 326, 1259-1273.	2.8	74
65	Spectral Dimension as a Probe of the Ultraviolet Continuum Regime of Causal Dynamical Triangulations. Physical Review Letters, 2011, 107, 131303.	7.8	62
66	Large-scale structure in	4.7	193
67	Lower-dimensional Hořava-Lifshitz gravity. Physical Review D, 2011, 83, .	4.7	34
68	From dispersion relations to spectral dimension and back again. Physical Review D, 2011, 84, .	4.7	49
69	Hořava-Lifshitz gravity: a status report. Journal of Physics: Conference Series, 2011, 283, 012034.	0.4	167
70	Projectable Hořava-Lifshitz gravity in a nutshell. Journal of Physics: Conference Series, 2010, 222, 012054.	0.4	55
71	of gravity. Reviews of Modern Physics, 2010, 82, 451-497.	4.7	193
72	Strong coupling in extended Hořava-Lifshitz gravity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 685, 197-200.	4.1	119

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73	Spinning Black Holes as Particle Accelerators. <i>Physical Review Letters</i> , 2010, 104, 021101.	7.8	162
74	Destroying black holes with test bodies. <i>Journal of Physics: Conference Series</i> , 2010, 222, 012041.	0.4	32
75	Gedanken experiments on nearly extremal black holes and the third law. <i>Physical Review D</i> , 2010, 82, .	4.7	37
76	Dynamics of generalized Palatini theories of gravity. <i>Physical Review D</i> , 2010, 82, .	4.7	39
77	Overspinning a Black Hole with a Test Body. <i>Physical Review Letters</i> , 2009, 103, 141101.	7.8	162
78	Phenomenologically Viable Lorentz-Violating Quantum Gravity. <i>Physical Review Letters</i> , 2009, 102, 251601.	7.8	226
79	Quantum gravity without Lorentz invariance. <i>Journal of High Energy Physics</i> , 2009, 2009, 033-033.	4.7	247
80	Covariant effective action for loop quantum cosmology from order reduction. <i>Physical Review D</i> , 2009, 79, .	4.7	26
81	6+1 lessons from $f(R)$ gravity. <i>Journal of Physics: Conference Series</i> , 2009, 189, 012039.	0.4	43
82	$f(R)$ ( $R$ ) gravity, torsion and non-metricity. <i>Classical and Quantum Gravity</i> , 2009, 26, 152001.	4.0	54
83	The viability of theories with matter coupled to the Ricci scalar. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2008, 664, 225-228.	4.1	83
84	THEORY OF GRAVITATION THEORIES: A NO-PROGRESS REPORT. <i>International Journal of Modern Physics D</i> , 2008, 17, 399-423.	2.1	89
85	A no-go theorem for polytropic spheres in Palatini $f(R)$ ( $R$ ) gravity. <i>Classical and Quantum Gravity</i> , 2008, 25, 062001.	4.0	104
86	Modified gravity with $R$ "matter couplings and (non-)geodesic motion. <i>Classical and Quantum Gravity</i> , 2008, 25, 205002.	4.0	162
87	Perturbed Kerr Black Holes Can Probe Deviations from General Relativity. <i>Physical Review Letters</i> , 2008, 101, 099001.	7.8	96
88	THE SIGNIFICANCE OF MATTER COUPLING IN $f(R)$ GRAVITY. , 2008, , .		1
89	The metric-affine formalism of $f(R)$ gravity. <i>Journal of Physics: Conference Series</i> , 2007, 68, 012022.	0.4	39
90	Reply to "Can gravitational dynamics be obtained by diffeomorphism invariance of action?" <i>Physical Review D</i> , 2007, 75, .	4.7	0

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91	Post-Newtonian expansion for Gauss-Bonnet gravity. Physical Review D, 2007, 75, .	4.7	41
92	Metric-affine $f(R)$ theories of gravity. Annals of Physics, 2007, 322, 935-966.	2.8	280
93	Curvature scalar instability in $f(R)$ gravity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 645, 389-392.	4.1	74
94	Unification of inflation and cosmic acceleration in the Palatini formalism. Physical Review D, 2006, 73, .	4.7	86
95	$f(R)$ gravity and scalar-tensor theory. Classical and Quantum Gravity, 2006, 23, 5117-5128.	4.0	305
96	Field equations from a surface term. Physical Review D, 2006, 74, .	4.7	7
97	The nearly Newtonian regime in non-linear theories of gravity. General Relativity and Gravitation, 2006, 38, 1407-1417.	2.0	114
98	Constraining $f(R)$ gravity in the Palatini formalism. Classical and Quantum Gravity, 2006, 23, 1253-1267.	4.0	97
99	Tracing the geometry around a massive, axisymmetric body to measure, through gravitational waves, its mass moments and electromagnetic moments. Physical Review D, 2005, 71, .	4.7	8
100	Corrections and comments on the multipole moments of axisymmetric electrovacuum spacetimes. Classical and Quantum Gravity, 2004, 21, 5727-5733.	4.0	61