

Jeremy Sakstein

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

3,884
citations

159585

30
h-index

155660

55
g-index

56
all docs

56
docs citations

56
times ranked

2781
citing authors

#	ARTICLE	IF	CITATIONS
1	Implications of the Neutron Star Merger GW170817 for Cosmological Scalar-Tensor Theories. Physical Review Letters, 2017, 119, 251303.	7.8	554
2	Spontaneous Scalarization of Black Holes and Compact Stars from a Gauss-Bonnet Coupling. Physical Review Letters, 2018, 120, 131104.	7.8	391
3	Beyond Λ CDM: Problems, solutions, and the road ahead. Physics of the Dark Universe, 2016, 12, 56-99.	4.9	361
4	Tests of chameleon gravity. Living Reviews in Relativity, 2018, 21, 1.	26.7	232
5	ASTROPHYSICAL TESTS OF MODIFIED GRAVITY: CONSTRAINTS FROM DISTANCE INDICATORS IN THE NEARBY UNIVERSE. Astrophysical Journal, 2013, 779, 39.	4.5	159
6	Early Dark Energy from Massive Neutrinos as a Natural Resolution of the Hubble Tension. Physical Review Letters, 2020, 124, 161301.	7.8	159
7	Stability of scalarized black hole solutions in scalar-Gauss-Bonnet gravity. Physical Review D, 2019, 99, .	4.7	121
8	Astrophysical probes of the Vainshtein mechanism: Stars and galaxies. Physical Review D, 2015, 91, .	4.7	113
9	Hydrogen Burning in Low Mass Stars Constrains Scalar-Tensor Theories of Gravity. Physical Review Letters, 2015, 115, 201101.	7.8	106
10	Self-interactions and spontaneous black hole scalarization. Physical Review D, 2019, 99, .	4.7	104
11	Testing gravity using dwarf stars. Physical Review D, 2015, 92, .	4.7	91
12	Relativistic stars in beyond Horndeski theories. Classical and Quantum Gravity, 2016, 33, 235014.	4.0	90
13	A compendium of chameleon constraints. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 045-045.	5.4	88
14	Modified gravity makes galaxies brighter. Physical Review D, 2012, 85, .	4.7	85
15	Local resolution of the Hubble tension: The impact of screened fifth forces on the cosmic distance ladder. Physical Review D, 2019, 100, .	4.7	79
16	Testing gravity using galaxy clusters: new constraints on beyond Horndeski theories. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 019-019.	5.4	71
17	Disformal theories of gravity: from the solar system to cosmology. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 012-012.	5.4	69
18	Beyond the Standard Model Explanations of GW190521. Physical Review Letters, 2020, 125, 261105.	7.8	53

#	ARTICLE	IF	CITATIONS
19	Towards strong field tests of beyond Horndeski gravity theories. <i>Physical Review D</i> , 2017, 95, .	4.7	52
20	Disformal gravity theories: A Jordan frame analysis. <i>Physical Review D</i> , 2015, 92, .	4.7	50
21	Tests of gravity with future space-based experiments. <i>Physical Review D</i> , 2018, 97, .	4.7	50
22	Stellar oscillations in modified gravity. <i>Physical Review D</i> , 2013, 88, .	4.7	49
23	Towards viable cosmological models of disformal theories of gravity. <i>Physical Review D</i> , 2015, 91, .	4.7	49
24	Novel Probes Project: Tests of gravity on astrophysical scales. <i>Reviews of Modern Physics</i> , 2021, 93, .	45.6	47
25	Solar system constraints on disformal gravity theories. <i>Journal of Cosmology and Astroparticle Physics</i> , 2015, 2015, 051-051.	5.4	42
26	Splashback in galaxy clusters as a probe of cosmic expansion and gravity. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 033-033.	5.4	42
27	Pixelated Dark Energy. <i>Fortschritte Der Physik</i> , 2019, 67, 1900071.	4.4	41
28	Astrophysical tests of screened modified gravity. <i>International Journal of Modern Physics D</i> , 2018, 27, 1848008.	2.1	37
29	Direct detection of dark energy: The XENON1T excess and future prospects. <i>Physical Review D</i> , 2021, 104, .	4.7	34
30	Astrophysical tests of modified gravity: Stellar and gaseous rotation curves in dwarf galaxies. <i>Physical Review D</i> , 2018, 97, .	4.7	32
31	New physics and the black hole mass gap. <i>Physical Review D</i> , 2020, 102, .	4.7	31
32	Pulsar constraints on screened modified gravity. <i>Classical and Quantum Gravity</i> , 2014, 31, 225001.	4.0	29
33	Screened fifth forces lower the TRGB-calibrated Hubble constant too. <i>Physical Review D</i> , 2020, 102, .	4.7	29
34	Neutrino-assisted early dark energy: theory and cosmology. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 063.	5.4	27
35	Stellar pulsations in beyond Horndeski gravity theories. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017, 2017, 007-007.	5.4	26
36	Tests of Gravity Theories Using Supermassive Black Holes. <i>Astrophysical Journal Letters</i> , 2017, 844, L14.	8.3	24

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37	Screened fifth forces mediated by dark matter-baryon interactions: Theory and astrophysical probes. <i>Physical Review D</i> , 2019, 100, .	4.7	23
38	Find the Gap: Black Hole Population Analysis with an Astrophysically Motivated Mass Function. <i>Astrophysical Journal Letters</i> , 2021, 916, L16.	8.3	23
39	Detecting modified gravity in the stars. <i>International Journal of Modern Physics D</i> , 2014, 23, 1442002.	2.1	22
40	Quasinormal modes of black holes in scalar-tensor theories with nonminimal derivative couplings. <i>Physical Review D</i> , 2017, 96, .	4.7	20
41	Dynamics of supersymmetric chameleons. <i>Journal of Cosmology and Astroparticle Physics</i> , 2013, 2013, 007-007.	5.4	17
42	SUPER-screening. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013, 719, 210-217.	4.1	16
43	Modified gravity and the black hole mass gap. <i>Physical Review D</i> , 2020, 102, .	4.7	15
44	Superfluids and the cosmological constant problem. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 024-024.	5.4	14
45	Missing in axion: Where are XENON1T's big black holes?. <i>Physics of the Dark Universe</i> , 2021, 32, 100801.	4.9	13
46	Baryogenesis in Lorentz-violating gravity theories. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017, 773, 186-190.	4.1	12
47	The origin and evolution of the mass-metallicity relation at high redshift using galics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 410, 2203-2216.	4.4	11
48	Testing the Vainshtein mechanism using stars and galaxies. <i>International Journal of Modern Physics D</i> , 2015, 24, 1544021.	2.1	10
49	Oscillons in higher-derivative effective field theories. <i>Physical Review D</i> , 2018, 98, .	4.7	10
50	Axion instability supernovae. <i>Physical Review D</i> , 2022, 105, .	4.7	8
51	Baryogenesis via dark matter-induced symmetry breaking in the early Universe. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017, 774, 183-188.	4.1	7
52	Baryogenesis via gravitational spontaneous symmetry breaking. <i>Physical Review D</i> , 2019, 100, .	4.7	3
53	Five percent measurement of the gravitational constant in the Large Magellanic Cloud. <i>Physical Review D</i> , 2021, 103, .	4.7	3
54	Astrophysical Tests of Screened Modified Gravity. , 2019, , 195-231.		1