

Sabine Hossenfelder

List of Publications by Year in descending order

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Version: 2024-02-01

81
papers

2,478
citations

304743

22
h-index

197818

49
g-index

86
all docs

86
docs citations

86
times ranked

1145
citing authors

#	ARTICLE	IF	CITATIONS
1	Minimal Length Scale Scenarios for Quantum Gravity. Living Reviews in Relativity, 2013, 16, 2.	26.7	483
2	Signatures in the Planck regime. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 575, 85-99.	4.1	263
3	Interpretation of quantum field theories with a minimal length scale. Physical Review D, 2006, 73, .	4.7	117
4	A note on theories with a minimal length. Classical and Quantum Gravity, 2006, 23, 1815-1821.	4.0	95
5	The Casimir effect in the presence of a minimal length. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 632, 379-383.	4.1	88
6	Model for nonsingular black hole collapse and evaporation. Physical Review D, 2010, 81, .	4.7	85
7	Black hole remnants at the LHC. Journal of High Energy Physics, 2005, 2005, 053-053.	4.7	82
8	Running coupling with minimal length. Physical Review D, 2004, 70, .	4.7	78
9	Macroscopic Quantum Resonators (MAQRO): 2015 update. EPJ Quantum Technology, 2016, 3, .	6.3	77
10	Conservative solutions to the black hole information problem. Physical Review D, 2010, 81, .	4.7	73
11	Rethinking Superdeterminism. Frontiers in Physics, 2020, 8, .	2.1	69
12	The Casimir effect in the presence of compactified universal extra dimensions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 582, 1-5.	4.1	68
13	Quasistable black holes at the Large Hadron Collider. Physical Review D, 2002, 66, .	4.7	66
14	THE MINIMAL LENGTH AND LARGE EXTRA DIMENSIONS. Modern Physics Letters A, 2004, 19, 2727-2744.	1.2	59
15	Bounds on an Energy-Dependent and Observer-Independent Speed of Light from Violations of Locality. Physical Review Letters, 2010, 104, 140402.	7.8	52
16	Suppressed black hole production from minimal length. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 598, 92-98.	4.1	51
17	Multiparticle states in deformed special relativity. Physical Review D, 2007, 75, .	4.7	49
18	Probing the minimal length scale by precision tests of the muon $g-2$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 584, 109-113.	4.1	48

#	ARTICLE	IF	CITATIONS
19	Covariant version of Verlinde's emergent gravity. <i>Physical Review D</i> , 2017, 95, .	4.7	46
20	Black hole production in large extra dimensions at the Tevatron: a chance to observe a first glimpse of TeV scale gravity. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2002, 548, 73-76.	4.1	45
21	A note on quantum field theories with a minimal length scale. <i>Classical and Quantum Gravity</i> , 2008, 25, 038003.	4.0	33
22	Can we measure structures to a precision better than the Planck length?. <i>Classical and Quantum Gravity</i> , 2012, 29, 115011.	4.0	32
23	Deformed special relativity in position space. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2007, 649, 310-316.	4.1	22
24	Bimetric theory with exchange symmetry. <i>Physical Review D</i> , 2008, 78, .	4.7	22
25	Screams for explanation: finetuning and naturalness in the foundations of physics. <i>Synthese</i> , 2021, 198, 3727-3745.	1.1	22
26	Black hole relics in large extra dimensions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2003, 566, 233-239.	4.1	21
27	Theory and Phenomenology of Space-Time Defects. <i>Advances in High Energy Physics</i> , 2014, 2014, 1-6.	1.1	20
28	Strong lensing with superfluid dark matter. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 001-001.	5.4	17
29	Testing Super-Deterministic Hidden Variables Theories. <i>Foundations of Physics</i> , 2011, 41, 1521-1531.	1.3	16
30	Analog systems for gravity duals. <i>Physical Review D</i> , 2015, 91, .	4.7	15
31	A relativistic acoustic metric for planar black holes. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016, 752, 13-17.	4.1	15
32	Anti-gravitation. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2006, 636, 119-125.	4.1	14
33	Science needs reason to be trusted. <i>Nature Physics</i> , 2017, 13, 316-317.	16.7	14
34	The Soccer-Ball Problem. <i>Symmetry, Integrability and Geometry: Methods and Applications (SIGMA)</i> , 0, .	0.5	14
35	The Milky Way's rotation curve with superfluid dark matter. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 3484-3491.	4.4	13
36	Mori-Zwanzig Formalism for General Relativity: A New Approach to the Averaging Problem. <i>Physical Review Letters</i> , 2021, 127, 231101.	7.8	13

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37	A possibility to solve the problems with quantizing gravity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 725, 473-476.	4.1	12
38	Predicting authors'™ citation counts and h-indices with a neural network. Scientometrics, 2019, 120, 87-104.	3.0	12
39	Tevatron\$mdash\$probing TeV-scale gravity today. Journal of Physics G: Nuclear and Particle Physics, 2002, 28, 1657-1665.	3.6	11
40	The redshift-dependence of radial acceleration: Modified gravity versus particle dark matter. International Journal of Modern Physics D, 2018, 27, 1847010.	2.1	11
41	Phenomenology of space-time imperfection. I. Nonlocal defects. Physical Review D, 2013, 88, .	4.7	10
42	Hybrid model of neutrino masses and oscillations: Bulk neutrinos in the split-fermion scenario. Physical Review D, 2006, 74, .	4.7	9
43	Deformed special relativity from asymptotically safe gravity. Physical Review D, 2010, 82, .	4.7	9
44	Comment on "œRelative locality and the soccer ball problemœ. Physical Review D, 2013, 88, .	4.7	9
45	Phenomenology of space-time imperfection. II. Local defects. Physical Review D, 2013, 88, .	4.7	9
46	Testing superdeterministic conspiracy. Journal of Physics: Conference Series, 2014, 504, 012018.	0.4	9
47	The wave function as a true ensemble. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2022, 478, .	2.1	9
48	Particle production in time-dependent gravitational fields: the expanding mass shell. Classical and Quantum Gravity, 2003, 20, 2337-2353.	4.0	8
49	Disentangling the black hole vacuum. Physical Review D, 2015, 91, .	4.7	7
50	General relativity with space-time defects. Classical and Quantum Gravity, 2018, 35, 175014.	4.0	7
51	Is Dark Matter Real?. Scientific American, 2018, 319, 36-43.	1.0	7
52	Analogue gravity models from conformal rescaling. Classical and Quantum Gravity, 2017, 34, 165004.	4.0	6
53	News about TeV-scale black holes. Nuclear Physics A, 2006, 774, 865-868.	1.5	5
54	Experimental Search for Quantum Gravity. , 2018, , .		5

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55	Quantum Superpositions of the Speed of Light. Foundations of Physics, 2012, 42, 1452-1468.	1.3	4
56	A derivation of Born's rule from symmetry. Annals of Physics, 2021, 425, 168394.	2.8	3
57	LARGE EXTRA DIMENSIONS AND THE MINIMAL SCALE CONSTRAINTS THROUGH HIGH PRECISION EXPERIMENTS. International Journal of Modern Physics A, 2005, 20, 3334-3336.	1.5	2
58	Quantum effects in the gravitational field. Nature, 2017, 549, 31-31.	27.8	2
59	Analyzing data is one thing, interpreting it another. Quantitative Science Studies, 2021, 2, 273-274.	3.3	2
60	Gravity Can Be Neither Classical Nor Quantized. The Frontiers Collection, 2015, , 219-224.	0.2	2
61	OBSERVABLES FROM LARGE EXTRA DIMENSIONS. International Journal of Modern Physics D, 2004, 13, 1453-1460.	2.1	1
62	Phenomenological Quantum Gravity. AIP Conference Proceedings, 2007, , .	0.4	1
63	On the Problem of Measuring Happiness. Interdisciplinary Description of Complex Systems, 2013, 11, 289-301.	0.6	1
64	A no-go theorem for Poincaré-invariant networks. Classical and Quantum Gravity, 2015, 32, 207001.	4.0	1
65	Head Trip. Scientific American, 2015, 313, 46-49.	1.0	1
66	Static scalar field solutions in symmetric gravity. Classical and Quantum Gravity, 2016, 33, 185008.	4.0	1
67	The Remote Maxwell Demon as Energy Down-Converter. Foundations of Physics, 2016, 46, 505-516.	1.3	1
68	Analog models for holographic transport. Physical Review D, 2019, 100, .	4.7	1
69	A path integral over Hilbert space for quantum mechanics. Annals of Physics, 2022, 440, 168827.	2.8	1
70	BLACK HOLES AND QUASISTABLE REMNANTS AT THE LHC. , 2006, , .		0
71	Mermin habitually answers opinions, real and abstract. Physics Today, 2009, 62, 12-12.	0.3	0
72	Antigravitation. , 2010, , .		0

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73	Can we unify quantum mechanics and gravity?. Physics World, 2013, 26, 42-43.	0.0	0
74	A strong model, with flaws. Physics World, 2014, 27, 33-34.	0.0	0
75	Strangely familiar. New Scientist, 2015, 227, 28-31.	0.0	0
76	Let's start at the very beginning. Physics World, 2018, 31, 40-41.	0.0	0
77	Signatures of Large Extra Dimensions. , 2004, , 577-584.		0
78	MODIFICATION OF THE CASIMIR EFFECT DUE TO A MINIMAL LENGTH SCALE. , 2006, , .		0
79	Observables of Quantum Gravity at the LHC. , 2008, , .		0
80	Shooting in the Dark. , 2011, , 101-105.		0
81	Peer review and its discontents. Septentrio Conference Series, 2015, , .	0.0	0