Sabine Hossenfelder

List of Publications by Year
in descending order

81	2,478	304743 22	197818 49
papers	citations	h-index	g-index

86	86	86	1145
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A path integral over Hilbert space for quantum mechanics. Annals of Physics, 2022, 440, 168827.	2.8	1
2	The wave function as a true ensemble. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2022, 478, .	2.1	9
3	Screams for explanation: finetuning and naturalness in the foundations of physics. SynthÃˆse, 2021, 198, 3727-3745.	1.1	22
4	Analyzing data is one thing, interpreting it another. Quantitative Science Studies, 2021, 2, 273-274.	3.3	2
5	A derivation of Bornâ€™s rule from symmetry. Annals of Physics, 2021, 425, 168394.	2.8	3
6	Mori-Zwanzig Formalism for General Relativity: A New Approach to the Averaging Problem. Physical Review Letters, 2021, 127, 231101.	7.8	13
7	The Milky Wayâ€™s rotation curve with superfluid dark matter. Monthly Notices of the Royal Astronomical Society, 2020, 498, 3484-3491.	4.4	13
8	Rethinking Superdeterminism. Frontiers in Physics, 2020, 8, .	2.1	69
9	Analog models for holographic transport. Physical Review D, 2019, 100, .	4.7	1
10	Predicting authorsâ€™ citation counts and h-indices with a neural network. Scientometrics, 2019, 120, 87-104.	3.0	12
11	Strong lensing with superfluid dark matter. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 001-001.	5.4	17
12	Let's start at the very beginning. Physics World, 2018, 31, 40-41.	0.0	0
13	Experimental Search for Quantum Gravity. , 2018, , .		5
14	The redshift-dependence of radial acceleration: Modified gravity versus particle dark matter. International Journal of Modern Physics D, 2018, 27, 1847010.	2.1	11
15	General relativity with space-time defects. Classical and Quantum Gravity, 2018, 35, 175014.	4.0	7
16	Is Dark Matter Real?. Scientific American, 2018, 319, 36-43.	1.0	7
17	Science needs reason to be trusted. Nature Physics, 2017, 13, 316-317.	16.7	14
18	Quantum effects in the gravitational field. Nature, 2017, 549, 31-31.	27.8	2

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19	Analogue gravity models from conformal rescaling. Classical and Quantum Gravity, 2017, 34, 165004.	4.0	6
20	Covariant version of Verlindeâ€™s emergent gravity. Physical Review D, 2017, 95, .	4.7	46
21	A relativistic acoustic metric for planar black holes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 752, 13-17.	4.1	15
22	Macroscopic Quantum Resonators (MAQRO): 2015 update. EPJ Quantum Technology, 2016, 3, .	6.3	77
23	Static scalar field solutions in symmetric gravity. Classical and Quantum Gravity, 2016, 33, 185008.	4.0	1
24	The Remote Maxwell Demon as Energy Down-Converter. Foundations of Physics, 2016, 46, 505-516.	1.3	1
25	Analog systems for gravity duals. Physical Review D, 2015, 91, .	4.7	15
26	A no-go theorem for PoincarÃ©-invariant networks. Classical and Quantum Gravity, 2015, 32, 207001.	4.0	1
27	Disentangling the black hole vacuum. Physical Review D, 2015, 91, .	4.7	7
28	Strangely familiar. New Scientist, 2015, 227, 28-31.	0.0	0
29	Head Trip. Scientific American, 2015, 313, 46-49.	1.0	1
30	Gravity Can Be Neither Classical Nor Quantized. The Frontiers Collection, 2015, , 219-224.	0.2	2
31	Peer review and its discontents. Septentrio Conference Series, 2015, , .	0.0	0
32	Theory and Phenomenology of Space-Time Defects. Advances in High Energy Physics, 2014, 2014, 1-6.	1.1	20
33	Testing superdeterministic conspiracy. Journal of Physics: Conference Series, 2014, 504, 012018.	0.4	9
34	A strong model, with flaws. Physics World, 2014, 27, 33-34.	0.0	0
35	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
36	Can we unify quantum mechanics and gravity?. Physics World, 2013, 26, 42-43.	0.0	0

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37	Minimal Length Scale Scenarios for Quantum Gravity. Living Reviews in Relativity, 2013, 16, 2.	26.7	483
38	On the Problem of Measuring Happiness. Interdisciplinary Description of Complex Systems, 2013, 11, 289-301.	0.6	1
39	Phenomenology of space-time imperfection. I. Nonlocal defects. Physical Review D, 2013, 88, .	4.7	10
40	Comment on â€œRelative locality and the soccer ball problemâ€• Physical Review D, 2013, 88, .	4.7	9
41	Phenomenology of space-time imperfection. II. Local defects. Physical Review D, 2013, 88, .	4.7	9
42	Can we measure structures to a precision better than the Planck length?. Classical and Quantum Gravity, 2012, 29, 115011.	4.0	32
43	Quantum Superpositions of the Speed of Light. Foundations of Physics, 2012, 42, 1452-1468.	1.3	4
44	Testing Super-Deterministic Hidden Variables Theories. Foundations of Physics, 2011, 41, 1521-1531.	1.3	16
45	Shooting in the Dark. , 2011, , 101-105.		0
46	Bounds on an Energy-Dependent and Observer-Independent Speed of Light from Violations of Locality. Physical Review Letters, 2010, 104, 140402.	7.8	52
47	Antigravitation. , 2010, , .		0
48	Conservative solutions to the black hole information problem. Physical Review D, 2010, 81, .	4.7	73
49	Model for nonsingular black hole collapse and evaporation. Physical Review D, 2010, 81, .	4.7	85
50	Deformed special relativity from asymptotically safe gravity. Physical Review D, 2010, 82, .	4.7	9
51	Mermin habitually answers opinions, real and abstract. Physics Today, 2009, 62, 12-12.	0.3	0
52	Bimetric theory with exchange symmetry. Physical Review D, 2008, 78, .	4.7	22
53	A note on quantum field theories with a minimal length scale. Classical and Quantum Gravity, 2008, 25, 038003.	4.0	33
54	Observables of Quantum Gravity at the LHC. , 2008, , .		0

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55	Phenomenological Quantum Gravity. AIP Conference Proceedings, 2007, , .	0.4	1
56	Multiparticle states in deformed special relativity. Physical Review D, 2007, 75, .	4.7	49
57	Deformed special relativity in position space. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 649, 310-316.	4.1	22
58	Hybrid model of neutrino masses and oscillations: Bulk neutrinos in the split-fermion scenario. Physical Review D, 2006, 74, .	4.7	9
59	A note on theories with a minimal length. Classical and Quantum Gravity, 2006, 23, 1815-1821.	4.0	95
60	Interpretation of quantum field theories with a minimal length scale. Physical Review D, 2006, 73, .	4.7	117
61	News about TeV-scale black holes. Nuclear Physics A, 2006, 774, 865-868.	1.5	5
62	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
63	Anti-gravitation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 636, 119-125.	4.1	14
64	BLACK HOLES AND QUASISTABLE REMNANTS AT THE LHC. , 2006, , .		0
65	MODIFICATION OF THE CASIMIR EFFECT DUE TO A MINIMAL LENGTH SCALE. , 2006, , .		0
66	Black hole remnants at the LHC. Journal of High Energy Physics, 2005, 2005, 053-053.	4.7	82
67	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
68	Running coupling with minimal length. Physical Review D, 2004, 70, .	4.7	78
69	OBSERVABLES FROM LARGE EXTRA DIMENSIONS. International Journal of Modern Physics D, 2004, 13, 1453-1460.	2.1	1
70	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
71	Probing the minimal length scale by precision tests of the muon gâ˜2. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 584, 109-113.	4.1	48
72	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

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73	THE MINIMAL LENGTH AND LARGE EXTRA DIMENSIONS. Modern Physics Letters A, 2004, 19, 2727-2744.	1.2	59
74	Signatures of Large Extra Dimensions. , 2004, , 577-584.		0
75	Signatures in the Planck regime. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 575, 85-99.	4.1	263
76	Black hole relics in large extra dimensions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 566, 233-239.	4.1	21
77	Particle production in time-dependent gravitational fields: the expanding mass shell. Classical and Quantum Gravity, 2003, 20, 2337-2353.	4.0	8
78	Quasistable black holes at the Large Hadron Collider. Physical Review D, 2002, 66, .	4.7	66
79	Tevatron$mdash$probing TeV-scale gravity today. Journal of Physics G: Nuclear and Particle Physics, 2002, 28, 1657-1665.	3.6	11
80	Black hole production in large extra dimensions at the Tevatron: aÂchance to observe a first glimpse of TeV scale gravity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 548, 73-76.	4.1	45
81	The Soccer-Ball Problem. Symmetry, Integrability and Geometry: Methods and Applications (SIGMA), 0, , .	0.5	14