Basil Hiley

List of Publications by Year
in descending order

41 papers	1,079 citations	567281 15 h-index	414414 32 g-index
44 all docs	44 docs citations	44 times ranked	278 citing authors

#	Article	IF	Citations
1	The role of geometric and dynamical phases in the Dirac–Bohm picture. Annals of Physics, 2022, 438, 168759.	2.8	1
2	Stapp, Bohm and the Algebra of Process. Activitas Nervosa Superior, 2019, 61, 102-107.	0.4	0
3	Emergent Quantum Mechanics: David Bohm Centennial Perspectives. Entropy, 2019, 21, 113.	2.2	9
4	Feynman Paths and Weak Values. Entropy, 2018, 20, 367.	2.2	18
5	Quantum Trajectories: Real or Surreal?. Entropy, 2018, 20, 353.	2.2	11
6	Structure Process, Weak Values and Local Momentum. Journal of Physics: Conference Series, 2016, 701, 012010.	0.4	4
7	The Algebraic Way. , 2016, , 1-25.		1
8	Observing quantum trajectories: From Mott's problem to quantum Zeno effect and back. Annals of Physics, 2016, 374, 190-211.	2.8	4
9	Aspects of Algebraic Quantum Theory: A Tribute to Hans Primas. , 2016, , 111-125.		0
10	Bohm's quantum potential as an internal energy. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 1224-1227.	2.1	34
11	On the relationship between the Wigner–Moyal approach and the quantum operator algebra of von Neumann. Journal of Computational Electronics, 2015, 14, 869-878.	2.5	15
12	Fermi's ansatz and Bohm's quantum potential. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 2363-2366.	2.1	12
13	Hamiltonian flows, short-time propagators and the quantum Zeno effect. Journal of Physics: Conference Series, 2014, 504, 012027.	0.4	2
14	Weak measurement and its experimental realisation. Journal of Physics: Conference Series, 2014, 504, 012016.	0.4	10
15	Quantum Mechanics: Harbinger of a Non-commutative Probability Theory?. Lecture Notes in Computer Science, 2014, , 6-21.	1.3	0
16	Clifford Algebras in Symplectic Geometry and Quantum Mechanics. Foundations of Physics, 2013, 43, 424-439.	1.3	6
17	Weak Values: Approach through the Clifford and Moyal Algebras. Journal of Physics: Conference Series, 2012, 361, 012014.	0.4	23
18	Clifford Algebras and the Dirac-Bohm Quantum Hamilton-Jacobi Equation. Foundations of Physics, 2012, 42, 192-208.	1.3	41

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19	Imprints of the Quantum World in Classical Mechanics. Foundations of Physics, 2011, 41, 1415-1436.	1.3	36
20	On the Relationship Between the Wigner-Moyal andÂBohm Approaches to Quantum Mechanics: AÂStepÂtoÂaÂMore General Theory?. Foundations of Physics, 2010, 40, 356-367.	1.3	16
21	Quantum Eraser. , 2009, , 546-549.		0
22	Welcher Weg Experiments from the Bohm Perspective. AIP Conference Proceedings, 2006, , .	0.4	46
23	Algebraic Quantum Mechanics and Pregeometry. AIP Conference Proceedings, 2006, , .	0.4	1
24	What is Erased in the Quantum Erasure?. Foundations of Physics, 2006, 36, 1869-1883.	1.3	12
25	Delayed-choice experiments and the Bohm approach. Physica Scripta, 2006, 74, 336-348.	2.5	35
26	A Unified Algebraic Approach to Quantum Theory. Foundations of Physics Letters, 1998, 11, 371-377.	0.6	4
27	Statistical mechanics and the ontological interpretation. Foundations of Physics, 1996, 26, 823-846.	1.3	5
28	Elements of reality, Lorentz invariance, and the product rule. Foundations of Physics, 1996, 26, 1-15.	1.3	8
29	On the relativistic invariance of a quantum theory based on beables. Foundations of Physics, 1991, 21, 243-250.	1.3	12
30	Active interpretation of the Lorentz â€˜â€˜boostsâ€™â€™ as a physical explanation of different time rates. American Journal of Physics, 1985, 53, 720-723.	0.7	4
31	Unbroken Quantum Realism, from Microscopic to Macroscopic Levels. Physical Review Letters, 1985, 55, 2511-2514.	7.8	51
32	The de Broglie pilot wave theory and the further development of new insights arising out of it. Foundations of Physics, 1982, 12, 1001-1016.	1.3	36
33	A quantum potential description of one-dimensional time-dependent scattering from square barriers and square wells. Foundations of Physics, 1982, 12, 27-48.	1.3	159
34	Geometric interpretation of the Pauli spinor. American Journal of Physics, 1981, 49, 152-157.	0.7	13
35	On a quantum algebraic approach to a generalized phase space. Foundations of Physics, 1981, 11, 179-203.	1.3	54
36	The implicate order, algebras, and the spinor. Foundations of Physics, 1980, 10, 7-31.	1.3	36

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37	Quantum interference and the quantum potential. Societa Italiana Di Fisica Nuovo Cimento B-General Physics, Relativity Astronomy and Mathematical Physics and Methods, 1979, 52, 15-28.	0.2	282
38	Nonlocality and polarization correlations of annihilation quanta. Societa Italiana Di Fisica Nuovo Cimento B-General Physics, Relativity Astronomy and Mathematical Physics and Methods, 1976, 35, 137-144.	0.2	16
39	On a new mode of description in physics. International Journal of Theoretical Physics, 1970, 3, 171-183.	1.2	38
40	Weak measurement, the energy–momentum tensor and the Bohm approach. , 0, , 68-90.		2
41	Some Personal Reflections on Quantum Nonlocality and the Contributions of John Bell. , 0, , 344-362.		0