

E B Davies

List of Publications by Year in descending order

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79
papers

5,274
citations

172386

29
h-index

118793

62
g-index

80
all docs

80
docs citations

80
times ranked

1753
citing authors

#	ARTICLE	IF	CITATIONS
1	Sectorial perturbations of self-adjoint matrices and operators. Proceedings of the London Mathematical Society, 2014, 108, 385-410.	0.6	1
2	SINGULAR SCHRÖDINGER OPERATORS IN ONE DIMENSION. Mathematika, 2013, 59, 141-159.	0.3	6
3	ALGEBRAIC ASPECTS OF SPECTRAL THEORY. Mathematika, 2011, 57, 63-88.	0.3	0
4	Convergence of eigenvalues for a highly non-self-adjoint differential operator. Bulletin of the London Mathematical Society, 2010, 42, 237-249.	0.4	3
5	Spectral properties of matrices associated with some directed graphs. Proceedings of the London Mathematical Society, 2010, 100, 55-90.	0.6	2
6	Some reflections on Newton's Principia. British Journal for the History of Science, 2009, 42, 211-224.	0.1	3
7	Pluralism in mathematics. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2005, 363, 2449-2460.	1.6	3
8	Triviality of the peripheral point spectrum. Journal of Evolution Equations, 2005, 5, 407-415.	0.6	16
9	Spectral Bounds Using Higher-Order Numerical Ranges. LMS Journal of Computation and Mathematics, 2005, 8, 17-45.	0.9	5
10	SPECTRAL ASYMPTOTICS OF THE NON-SELF-ADJOINT HARMONIC OSCILLATOR. Journal of the London Mathematical Society, 2004, 70, 420-426.	0.5	51
11	Spectral pollution. IMA Journal of Numerical Analysis, 2004, 24, 417-438.	1.5	70
12	Empiricism in Arithmetic and Analysis. Philosophia Mathematica, 2003, 11, 53-66.	0.1	4
13	NON-SELF-ADJOINT DIFFERENTIAL OPERATORS. Bulletin of the London Mathematical Society, 2002, 34, 513-532.	0.4	80
14	Spectral Theory of Pseudo-Ergodic Operators. Communications in Mathematical Physics, 2001, 216, 687-704.	1.0	24
15	Bounds on complex eigenvalues and resonances. Journal of Physics A, 2001, 34, 57-72.	1.6	93
16	Sharp boundary estimates for elliptic operators. Mathematical Proceedings of the Cambridge Philosophical Society, 2000, 129, 165-178.	0.3	25
17	A numerical investigation of the solution of a class of fourth-order eigenvalue problems. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2000, 456, 1505-1521.	1.0	17
18	A review of Hardy inequalities. , 1999, , 55-67.		88

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19	Pointwise lower bounds on the heat kernels of higher order elliptic operators. Mathematical Proceedings of the Cambridge Philosophical Society, 1999, 125, 105-111.	0.3	5
20	L_p Spectral Theory of Higher-Order Elliptic Differential Operators. Bulletin of the London Mathematical Society, 1997, 29, 513-546.	0.4	76
21	Long time asymptotics of fourth order parabolic equations. Journal D'Analyse Mathematique, 1995, 67, 323-345.	0.4	11
22	The Functional Calculus. Journal of the London Mathematical Society, 1995, 52, 166-176.	0.5	76
23	Nonlinear Schrodinger operators and molecular structure. Journal of Physics A, 1995, 28, 4025-4041.	1.6	10
24	Two-Dimensional Riemannian Manifolds with Fractal Boundaries. Journal of the London Mathematical Society, 1994, 49, 343-356.	0.5	3
25	Heat kernel and hardy estimates for locally Euclidean manifolds with fractal boundaries. Geometric and Functional Analysis, 1993, 3, 527-563.	0.6	5
26	Eigenvalue stability bounds via weighted Sobolev spaces. Mathematische Zeitschrift, 1993, 214, 357-371.	0.4	25
27	Heat kernel bounds, conservation of probability and the feller property. Journal D'Analyse Mathematique, 1992, 58, 99-119.	0.4	98
28	Spectral properties of Neumann Laplacian of horns. Geometric and Functional Analysis, 1992, 2, 105-117.	0.6	27
29	The hyperbolic geometry and spectrum of irregular domains. Nonlinearity, 1990, 3, 913-945.	0.6	6
30	Heat flow out of regions in \mathbb{R}^m . Mathematische Zeitschrift, 1989, 202, 463-482.	0.4	53
31	An eigenvalue bound for compact manifolds with varying curvature. Annals of Global Analysis and Geometry, 1989, 7, 107-114.	0.3	0
32	Some Commutator Estimates in the Schatten Classes. Journal of the London Mathematical Society, 1989, s2-39, 299-308.	0.5	17
33	Heat Kernel Bounds on Hyperbolic Space and Kleinian Groups. Proceedings of the London Mathematical Society, 1988, s3-57, 182-208.	0.6	113
34	Heat Kernel Bounds for Second Order Elliptic Operators on Riemannian Manifolds. American Journal of Mathematics, 1987, 109, 545.	0.5	21
35	Trace properties of the Dirichlet Laplacian. Mathematische Zeitschrift, 1985, 188, 245-251.	0.4	22
36	Trace Properties of Some Highly Anisotropic Operators. Journal of the London Mathematical Society, 1985, s2-31, 137-149.	0.5	6

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37	THE RATE OF RESOLVENT AND SEMIGROUP CONVERGENCE. Quarterly Journal of Mathematics, 1984, 35, 121-130.	0.3	1
38	An adiabatic theorem applicable to the stark effect. Communications in Mathematical Physics, 1983, 89, 329-339.	1.0	2
39	Metastable States of Symmetric Markov Semigroups I. Proceedings of the London Mathematical Society, 1982, s3-45, 133-150.	0.6	27
40	Metastability and the Ising model. Journal of Statistical Physics, 1982, 27, 657-675.	0.5	12
41	The twisting trick for double well Hamiltonians. Communications in Mathematical Physics, 1982, 85, 471-479.	1.0	23
42	Stability of molecular eigenstates. Lecture Notes in Physics, 1982, , 129-131.	0.3	0
43	Asymptotic Modifications of Dynamical Semigroups on \hat{C}^* -Algebras. Journal of the London Mathematical Society, 1981, s2-24, 537-547.	0.5	1
44	On Enssé™ approach to scattering theory. Duke Mathematical Journal, 1980, 47, 171.	0.8	33
45	Metastable states of molecules. Communications in Mathematical Physics, 1980, 75, 263-283.	1.0	9
46	Irreversible and Nonlinear Dynamics of Open Systems. , 1980, , 239-255.		2
47	Particleâ€boson interactions and the weak coupling limit. Journal of Mathematical Physics, 1979, 20, 345-351.	0.5	34
48	Symmetry breaking for a non-linear Schrödinger equation. Communications in Mathematical Physics, 1979, 64, 191-210.	1.0	71
49	Scattering theory for systems with different spatial asymptotics on the left and right. Communications in Mathematical Physics, 1978, 63, 277-301.	1.0	116
50	Open quantum systems with time-dependent Hamiltonians and their linear response. Journal of Statistical Physics, 1978, 19, 511-523.	0.5	108
51	A model of heat conduction. Journal of Statistical Physics, 1978, 18, 161-170.	0.5	34
52	Dilations of Completely Positive Maps. Journal of the London Mathematical Society, 1978, s2-17, 330-338.	0.5	10
53	Scattering from infinite sheets. Mathematical Proceedings of the Cambridge Philosophical Society, 1977, 82, 327-334.	0.3	29
54	Irreversible dynamics of infinite fermion systems. Communications in Mathematical Physics, 1977, 55, 231-258.	1.0	30

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55	First and second quantised neutron diffusion equations. Communications in Mathematical Physics, 1977, 52, 111-126.	1.0	7
56	Markovian master equations. II. Mathematische Annalen, 1976, 219, 147-158.	0.7	197
57	The classical limit for quantum dynamical semigroups. Communications in Mathematical Physics, 1976, 49, 113-129.	1.0	15
58	Resonances, spectral concentration and exponential decay. Letters in Mathematical Physics, 1975, 1, 31-35.	0.5	25
59	SYMMETRIES OF COMPACT CONVEX SETS. Quarterly Journal of Mathematics, 1974, 25, 323-328.	0.3	3
60	Parametric interactions and scattering. Communications in Mathematical Physics, 1974, 37, 161-174.	1.0	0
61	Markovian master equations. Communications in Mathematical Physics, 1974, 39, 91-110.	1.0	694
62	Dynamics of a multilevel Wigner-Weisskopf atom. Journal of Mathematical Physics, 1974, 15, 2036-2041.	0.5	36
63	The ideal Boson gas in an external scalar potential. Communications in Mathematical Physics, 1973, 30, 229-247.	1.0	8
64	The infinite atom Dicke maser model II. Communications in Mathematical Physics, 1973, 34, 237-249.	1.0	15
65	The harmonic oscillator in a heat bath. Communications in Mathematical Physics, 1973, 33, 171-186.	1.0	63
66	Exact dynamics of an infinite-atom Dicke maser model. Communications in Mathematical Physics, 1973, 33, 187-205.	1.0	22
67	A Generalisation of Kaplansky's Theorem. Journal of the London Mathematical Society, 1972, s2-4, 435-436.	0.5	7
68	Some contraction semigroups in quantum probability. Zeitschrift für Wahrscheinlichkeitstheorie Und Verwandte Gebiete, 1972, 23, 261-273.	0.8	29
69	Diffusion for weakly coupled quantum oscillators. Communications in Mathematical Physics, 1972, 27, 309-325.	1.0	41
70	The thermodynamic limit for an imperfect Boson gas. Communications in Mathematical Physics, 1972, 28, 69-86.	1.0	67
71	Involutory automorphisms of operator algebras. Transactions of the American Mathematical Society, 1971, 158, 115-142.	0.5	6
72	Quantum stochastic processes III. Communications in Mathematical Physics, 1971, 22, 51-70.	1.0	60

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73	Quantum stochastic processes II. Communications in Mathematical Physics, 1970, 19, 83-105.	1.0	117
74	An operational approach to quantum probability. Communications in Mathematical Physics, 1970, 17, 239-260.	1.0	701
75	THE STRUCTURE OF $\hat{\mathcal{L}}^*$ -ALGEBRAS. Quarterly Journal of Mathematics, 1969, 20, 351-366.	0.3	7
76	Quantum stochastic processes. Communications in Mathematical Physics, 1969, 15, 277-304.	1.0	207
77	On the Borel structure of C^* -algebras. Communications in Mathematical Physics, 1968, 8, 147-163.	1.0	43
78	The structure and ideal theory of the predual of a Banach lattice. Transactions of the American Mathematical Society, 1968, 131, 544-555.	0.5	47
79	ON THE BANACH DUALS OF CERTAIN SPACES WITH THE RIESZ DECOMPOSITION PROPERTY. Quarterly Journal of Mathematics, 1967, 18, 109-111.	0.3	10