S Barry Cooper

List of Publications by Year
in descending order

54	524	933264	713332
papers	citations	10 h-index	21 g-index

57	57	57	141
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Linearisations and the Ershov hierarchy. Computability, 2018, 7, 143-169.	0.3	0
2	Splitting and jump inversion in the Turing degrees. Computability, 2018, 7, 133-142.	0.3	0
3	Automorphisms of Î· -like computable linear orderings and Kierstead's conjecture. Mathematical Logic Quarterly, 2016, 62, 481-506.	0.2	3
4	â€˜Realâ€™ information is not flat â€“ and why it matters. Journal of Experimental and Theoretical Artificial Intelligence, 2015, 27, 3-11.	1.8	0
5	The machine as data: a computational view of emergence and definability. SynthÃˆse, 2015, 192, 1955-1988.	0.6	4
6	The incomputable. Journal of Logic and Computation, 2013, 23, 1143-1144.	0.5	0
7	Introduction: computability of the physical. Mathematical Structures in Computer Science, 2012, 22, 723-728.	0.5	0
8	From natural philosophy to computation, and back again. , 2012, , .		0
9	Computability at Logic Colloquium 2009. Journal of Logic and Computation, 2012, 22, 667-667.	0.5	1
10	Turing's Titanic machine?. Communications of the ACM, 2012, 55, 74-83.	3.3	12
11	The mathematics of nature at the Alan Turing centenary. Interface Focus, 2012, 2, 393-396.	1.5	6
12	The Mathematicianâ€™s Bias â€” and the Return to Embodied Computation. , 2012, , 125-142.		4
13	The foundations of computation, physics and mentality: the Turing legacy. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2012, 370, 3273-3276.	1.6	1
14	Mathematics, Metaphysics and the Multiverse. Lecture Notes in Computer Science, 2012, , 252-267.	1.0	0
15	Definability in the Real Universe. , 2011, , 131-167.		0
16	Extending and interpreting Postâ€™s programme. Annals of Pure and Applied Logic, 2010, 161, 775-788.	0.3	0
17	Preface to Special Issue: Theory and Applications of Models of Computation (TAMC). Mathematical Structures in Computer Science, 2009, 19, 5-7.	0.5	1
18	Computation and Logic in the Real World: CiE 2007. Theory of Computing Systems, 2009, 45, 647-649.	0.7	0

#	Article	IF	Citations
19	Emergence as a computability-theoretic phenomenon. Applied Mathematics and Computation, 2009, 215, 1351-1360.	1.4	68
20	The Extended Turing Model as Contextual Tool. Lecture Notes in Computer Science, 2009, , 18-28.	1.0	0
21	On Lachlanâ€™s major sub-degree problem. Archive for Mathematical Logic, 2008, 47, 341-434.	0.2	4
22	How enumeration reducibility yields extended Harrington non-splitting. Journal of Symbolic Logic, 2008, 73, 634-655.	0.4	8
23	Theory of Computation at CiE 2005. Theory of Computing Systems, 2007, 41, 1-2.	0.7	0
24	Definability as hypercomputational effect. Applied Mathematics and Computation, 2006, 178, 72-82.	1.4	8
25	Mathematics of computing at CiE 2005. Mathematical Structures in Computer Science, 2006, 16, 735.	0.5	0
26	Computability and Emergence. , 2006, , 193-231.		10
27	Properly ?2 minimal degrees and 0? complementation. Mathematical Logic Quarterly, 2005, 51, 274-276.	0.2	4
28	Bounding and nonbounding minimal pairs in the enumeration degrees. Journal of Symbolic Logic, 2005, 70, 741-766.	0.4	8
29	There is no low maximal d. c. e. degreeâ€“ Corrigendum. Mathematical Logic Quarterly, 2004, 50, 628-636.	0.2	10
30	There exists a maximal 3-C.E. enumeration degree. Israel Journal of Mathematics, 2003, 137, 285-320.	0.4	0
31	Incomputability in Nature. , 2003, , 137-160.		28
32	Splitting and nonsplitting, II: A low2 c.e. degree above which 0â€² is not splittable. Journal of Symbolic Logic, 2002, 67, 1391-1430.	0.4	6
33	Turing Definability in the Ershov Hierarchy. Journal of the London Mathematical Society, 2002, 66, 513-528.	0.5	12
34	On the distribution of Lachlan nonsplitting bases. Archive for Mathematical Logic, 2002, 41, 455-482.	0.2	2
35	Non-Uniformity and Generalised Sacks Splitting. Acta Mathematica Sinica, English Series, 2002, 18, 327-334.	0.2	8
36	On a Conjecture of Kleene and Post. Mathematical Logic Quarterly, 2001, 47, 3-33.	0.2	7

#	Article	IF	Citations
37	There is No Low Maximal D.C.E. Degree. Mathematical Logic Quarterly, 2000, 46, 409-416.	0.2	19
38	Local Degree Theory* *Preparation of this paper partially supported by E.P.S.R.C. research grants nos. GR/H91213 and GR/H02165, and by EC Human Capital and Mobility network â€˜Complexity, Logic and Recursion Theoryâ€™.. Studies in Logic and the Foundations of Mathematics, 1999, 140, 121-153.	0.2	5
39	Clockwork or Turing U/universe? - Remarks on Causal Determinism and Computability. , 1999, , 63-116.		14
40	Initial Segments of Recursive Linear Orders. Order, 1997, 14, 101-105.	0.3	6
41	A characterisation of the jumps of minimal degrees below 0â€². , 1996, , 81-92.		1
42	Strong Minimal Covers for Recursively Enumerable Degrees. Mathematical Logic Quarterly, 1996, 42, 191-196.	0.2	1
43	Noncappable enumeration degrees below 0eâ€². Journal of Symbolic Logic, 1996, 61, 1347-1363.	0.4	4
44	The discontinuity of splitting in the recursively enumerable degrees. Archive for Mathematical Logic, 1995, 34, 247-256.	0.2	1
45	The discontinuity of splitting in the recursively enumerable degrees. Archive for Mathematical Logic, 1995, 34, 247-256.	0.2	0
46	A Splitting Theorem for the N-R.E. Degrees. Proceedings of the American Mathematical Society, 1992, 115, 461.	0.4	3
47	The d.r.e. degrees are not dense. Annals of Pure and Applied Logic, 1991, 55, 125-151.	0.3	70
48	The density of the low2 n-r.e. degrees. Archive for Mathematical Logic, 1991, 31, 19-24.	0.2	17
49	Enumeration reducibility, nondeterministic computations and relative computability of partial functions. Lecture Notes in Mathematics, 1990, , 57-110.	0.1	46
50	The jump is definable in the structure of the degrees of unsolvability. Bulletin of the American Mathematical Society, 1990, 23, 151-159.	0.8	23
51	Weak density and cupping in the d-r.e. degrees. Israel Journal of Mathematics, 1989, 67, 137-152.	0.4	46
52	On minimal pairs of enumeration degrees. Journal of Symbolic Logic, 1985, 50, 983-1001.	0.4	38
53	Definability and elementary equivalence in the Ershov difference hierarchy. , 0, , 1-17.		2
54	The Incomputable Alan Turing. , 0, , .		4