Jeremy Avigad

List of Publications by Year
in descending order

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62	1,348	471509 17	395702 33
papers	citations	h-index	g-index

66	66	66	503
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Machine-Checked Proof of the Odd Order Theorem. Lecture Notes in Computer Science, 2013, , 163-179.	1.3	150
2	GÃ¶delâ€™s Functional (â€œDialecticaâ€) Interpretation. Studies in Logic and the Foundations of Mathematics, 1998, , 337-405.	0.1	140
3	A FORMAL SYSTEM FOR EUCLIDâ€™SELEMENTS. Review of Symbolic Logic, 2009, 2, 700-768.	0.7	110
4	Î´-Complete Decision Procedures for SatisfiabilityÂoverÂthe Reals. Lecture Notes in Computer Science, 2012, , 286-300.	1.3	97
5	Formally verified mathematics. Communications of the ACM, 2014, 57, 66-75.	4.5	81
6	Computability and analysis: the legacy of Alan Turing. , 2014, , 1-47.		66
7	Building a push-button RESOLVE verifier: Progress and challenges. Formal Aspects of Computing, 2011, 23, 607-626.	1.8	46
8	Mathematical Method and Proof. SynthÃˆse, 2006, 153, 105-159.	1.1	45
9	Local stability of ergodic averages. Transactions of the American Mathematical Society, 2009, 362, 261-288.	0.9	39
10	Number theory and elementary arithmeticâ€. Philosophia Mathematica, 2003, 11, 257-284.	0.2	38
11	Understanding Proofs. , 2008, , 317-353.		38
12	Formalizing forcing arguments in subsystems of second-order arithmetic. Annals of Pure and Applied Logic, 1996, 82, 165-191.	0.5	33
13	A formally verified proof of the prime number theorem. ACM Transactions on Computational Logic, 2007, 9, 2.	0.9	33
14	Saturated models of universal theories. Annals of Pure and Applied Logic, 2002, 118, 219-234.	0.5	28
15	Interpreting classical theories in constructive ones. Journal of Symbolic Logic, 2000, 65, 1785-1812.	0.5	27
16	On the relationship between ATR0 and. Journal of Symbolic Logic, 1996, 61, 768-779.	0.5	25
17	Forcing in Proof Theory. Bulletin of Symbolic Logic, 2004, 10, 305-333.	0.2	23
18	Reliability of mathematical inference. SynthÃˆse, 2021, 198, 7377-7399.	1.1	21

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19	Update Procedures and the 1-Consistency of Arithmetic. Mathematical Logic Quarterly, 2002, 48, 3-13.	0.2	20
20	Eliminating definitions and Skolem functions in first-order logic. ACM Transactions on Computational Logic, 2003, 4, 402-415.	0.9	20
21	Homotopy limits in type theory. Mathematical Structures in Computer Science, 2015, 25, 1040-1070.	0.6	18
22	A Model-Theoretic Approach to Ordinal Analysis. Bulletin of Symbolic Logic, 1997, 3, 17-52.	0.2	17
23	Algorithmic randomness, reverse mathematics, and the dominated convergence theorem. Annals of Pure and Applied Logic, 2012, 163, 1854-1864.	0.5	17
24	The metamathematics of ergodic theory. Annals of Pure and Applied Logic, 2009, 157, 64-76.	0.5	16
25	MODULARITY IN MATHEMATICS. Review of Symbolic Logic, 2020, 13, 47-79.	0.7	15
26	Algebraic proofs of cut elimination. The Journal of Logic and Algebraic Programming, 2001, 49, 15-30.	1.4	11
27	Fundamental notions of analysis in subsystems of second-order arithmetic. Annals of Pure and Applied Logic, 2006, 139, 138-184.	0.5	11
28	Opinion: The Mechanization of Mathematics. Notices of the American Mathematical Society, 2018, 65, 1.	0.2	11
29	An effective proof that open sets are Ramsey. Archive for Mathematical Logic, 1998, 37, 235-240.	0.3	10
30	The concept of â€œcharacterâ€•in Dirichletâ€™s theorem on primes in an arithmetic progression. Archive for History of Exact Sciences, 2014, 68, 265-326.	0.5	10
31	A Formally Verified Proof of the Central Limit Theorem. Journal of Automated Reasoning, 2017, 59, 389-423.	1.4	10
32	Transfer principles in nonstandard intuitionistic arithmetic. Archive for Mathematical Logic, 2002, 41, 581-602.	0.3	9
33	Oscillation and the mean ergodic theorem for uniformly convex Banach spaces. Ergodic Theory and Dynamical Systems, 2015, 35, 1009-1027.	0.6	9
34	The model-theoretic ordinal analysis of theories of predicative strength. Journal of Symbolic Logic, 1999, 64, 327-349.	0.5	8
35	Functional interpretation and inductive definitions. Journal of Symbolic Logic, 2009, 74, 1100-1120.	0.5	8
36	Uniform distribution and algorithmic randomness. Journal of Symbolic Logic, 2013, 78, 334-344.	0.5	8

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37	CHARACTER AND OBJECT. Review of Symbolic Logic, 2016, 9, 480-510.	0.7	8
38	A Heuristic Prover for Real Inequalities. Journal of Automated Reasoning, 2016, 56, 367-386.	1.4	8
39	Weak theories of nonstandard arithmetic and analysis. , 2017, , 19-46.		6
40	Combining decision procedures for the reals. Logical Methods in Computer Science, 2006, 2, .	0.4	6
41	Predicative functionals and an interpretation of âŒ¢ID‹Ï‰. Annals of Pure and Applied Logic, 1998, 92, 1-34.	0.5	5
42	AN ORDINAL ANALYSIS OF ADMISSIBLE SET THEORY USING RECURSION ON ORDINAL NOTATIONS. Journal of Mathematical Logic, 2002, 02, 91-112.	0.6	4
43	Quantifier elimination for the reals with a predicate for the powers of two. Theoretical Computer Science, 2007, 370, 48-59.	0.9	4
44	Zen and the art of formalisation. Mathematical Structures in Computer Science, 2011, 21, 679-682.	0.6	4
45	Varieties of mathematical understanding. Bulletin of the American Mathematical Society, 2021, 59, 99-117.	1.5	4
46	A Decision Procedure for Linear â€œBig Oâ€•Equations. Journal of Automated Reasoning, 2007, 38, 353-373.	1.4	2
47	Uncomputably Noisy Ergodic Limits. Notre Dame Journal of Formal Logic, 2012, 53, .	0.4	2
48	Introduction to Milestones in Interactive Theorem Proving. Journal of Automated Reasoning, 2018, 61, 1-8.	1.4	2
49	A Heuristic Prover for Real Inequalities. Lecture Notes in Computer Science, 2014, , 61-76.	1.3	2
50	William Tait. The provenance of pure reason: essays in the philosophy of mathematics and its history. Oxford University Press, Oxford, 2005, x + 332 pp.. Bulletin of Symbolic Logic, 2006, 12, 608-611.	0.2	1
51	The birth of model theory: Lowenheimâ€™s theorem in the frame of the theory of relatives. Mathematical Intelligencer, 2006, 28, 67-71.	0.2	1
52	Toshiyasu Arai. Some results on cut-elimination, provable well-orderings, induction and reflection. Annals of pure and applied logic, vol. 95 (1998), pp. 93â€“184.. Bulletin of Symbolic Logic, 2001, 7, 77-78.	0.2	0
53	Gnomes in the fog: The reception of brouwerâ€™s intuitionism in the 1920s. Mathematical Intelligencer, 2006, 28, 71-74.	0.2	0
54	Handbook of Practical Logic and Automated Reasoning, John Harrison, Cambridge University Press, 2009. Hardcover, ISBN-13: 978-0-521-89957-4, 681 pp. + xix, $135.00.. Theory and Practice of Logic Programming, 2010, 10, 237-241.	1.5	0

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55	Platoâ€™s Ghost: The Modernist Transformation of Mathematics by Jeremy Gray. Mathematical Intelligencer, 2010, 32, 79-81.	0.2	0
56	Thomas Hales. Dense Sphere Packings: A Blueprint for Formal Proofs. Cambridge University Press, Cambridge, 2012, xiv + 271 pp.. Bulletin of Symbolic Logic, 2014, 20, 500-501.	0.2	0
57	Preface: Selected Extended Papers from Interactive Theorem Proving 2018. Journal of Automated Reasoning, 2020, 64, 793-794.	1.4	0
58	Review of "Basic proof theory. ACM SIGACT News, 2001, 32, 15-19.	0.1	0
59	Sergei N. Artemov. Explicit provability and constructive semantics. The bulletin of symbolic logic, vol. 7 (2001), pp. 1â€“36.. Bulletin of Symbolic Logic, 2002, 8, 432-433.	0.2	0
60	Alan Turing: His Work and Impact, A Book Review. Notices of the American Mathematical Society, 2014, 61, 886.	0.2	0
61	Logic's Lost Genius and Gentzen's Centenary. Notices of the American Mathematical Society, 2016, 63, 1288-1292.	0.2	0
62	TWO-SORTED FREGE ARITHMETIC IS NOT CONSERVATIVE. Review of Symbolic Logic, 0, , 1-32.	0.7	0