William M Farmer

List of Publications by Year
in descending order

30 papers	602 citations	687363 13 h-index	610901 24 g-index
31 all docs	31 docs citations	31 times ranked	149 citing authors

#	Article	IF	Citations
1	IMPS: An interactive mathematical proof system. Journal of Automated Reasoning, 1993, 11, 213-248.	1.4	102
2	A partial functions version of Church's simple theory of types. Journal of Symbolic Logic, 1990, 55, 1269-1291.	0.5	76
3	Little theories. Lecture Notes in Computer Science, 1992, , 567-581.	1.3	64
4	A unification algorithm for second-order monadic terms. Annals of Pure and Applied Logic, 1988, 39, 131-174.	0.5	46
5	The seven virtues of simple type theory. Journal of Applied Logic, 2008, 6, 267-286.	1.1	44
6	Simple second-order languages for which unification is undecidable. Theoretical Computer Science, 1991, 87, 25-41.	0.9	42
7	A simple type theory with partial functions and subtypes11Supported by the MITRE-Sponsored Research program. Presented at the 9th International Congress of Logic, Methodology and Philosophy of Science held in Uppsala, Sweden, August 7-14, 1991.. Annals of Pure and Applied Logic, 1993, 64, 211-240.	0.5	24
8	Theory interpretation in simple type theory. Lecture Notes in Computer Science, 1994, , 96-123.	1.3	19
9	A unification-theoretic method for investigating the k-provability problem. Annals of Pure and Applied Logic, 1991, 51, 173-214.	0.5	17
10	An Infrastructure for Intertheory Reasoning. Lecture Notes in Computer Science, 2000, , 115-131.	1.3	16
11	IMPS : An interactive mathematical proof system. Lecture Notes in Computer Science, 1990, , 653-654.	1.3	16
12	Reasoning about partial functions with the aid of a computer. Erkenntnis, 1995, 43, 279-294.	0.9	15
13	A Review of Mathematical Knowledge Management. Lecture Notes in Computer Science, 2009, , 233-246.	1.3	14
14	A Set Theory with Support for Partial Functions. Studia Logica, 2000, 66, 59-78.	0.6	13
15	Formalizing Undefinedness Arising in Calculus. Lecture Notes in Computer Science, 2004, , 475-489.	1.3	11
16	An Overview of a Formal Framework for Managing Mathematics. Annals of Mathematics and Artificial Intelligence, 2003, 38, 165-191.	1.3	10
17	MKM. SIGSAM Bulletin: A Quarterly Publication of the Special Interest Group on Symbolic & Algebraic Manipulation, 2004, 38, 47-52.	0.3	10
18	IMPS: An updated system description. Lecture Notes in Computer Science, 1996, , 298-302.	1.3	9

#	Article	IF	Citations
19	The Formalization of Syntax-Based Mathematical Algorithms Using Quotation and Evaluation. Lecture Notes in Computer Science, 2013, , 35-50.	1.3	8
20	STMM: A Set Theory for Mechanized Mathematics. Journal of Automated Reasoning, 2001, 26, 269-289.	1.4	7
21	A Formal Language for Writing Contracts. , 2016, , .		7
22	Big Math and the One-Brain Barrier: The Tetrapod Model of Mathematical Knowledge. Mathematical Intelligencer, 2021, 43, 78-87.	0.2	6
23	Contexts in Mathematical Reasoning and Computation. Journal of Symbolic Computation, 1995, 19, 201-216.	0.8	5
24	Formalizing Mathematical Knowledge as a Biform Theory Graph: A Case Study. Lecture Notes in Computer Science, 2017, , 9-24.	1.3	5
25	Incorporating quotation and evaluation into Church's type theory. Information and Computation, 2018, 260, 9-50.	0.7	5
26	Panoptes. Electronic Notes in Theoretical Computer Science, 2009, 226, 39-48.	0.9	4
27	The Kreisel length-of-proof problem. Annals of Mathematics and Artificial Intelligence, 1992, 6, 27-55.	1.3	3
28	FCL: A Formal Language for Writing Contracts. Advances in Intelligent Systems and Computing, 2018, , 190-208.	0.6	2
29	Biform Theories: Project Description. Lecture Notes in Computer Science, 2018, , 76-86.	1.3	0
30	Towards Specifying Symbolic Computation. Lecture Notes in Computer Science, 2019, , 109-124.	1.3	0