Michael Kohlhase

List of Publications by Year in Descending Order

117 papers	1,000 citations	16 h-index	26 g-index
124 ext. papers	1,079 ext. citations	0.8 avg, IF	4.53 L-index

#	Paper	IF	Citations
117	Big Math and the One-Brain Barrier: The Tetrapod Model of Mathematical Knowledge. *Mathematical Intelligencer*, **2021**, 43, 78-87	0.2	0
116	Experiences from Exporting Major Proof Assistant Libraries. *Journal of Automated Reasoning*, **2021**, 65, 1265	1	0
115	Logic-Independent Proof Search in Logical Frameworks. *Lecture Notes in Computer Science*, **2020**, 395-401	0.9	2
114	(Deep) FAIR mathematics. *IT - Information Technology*, **2020**, 62, 7-17	0.4	1
113	TGView3D: A System for 3-Dimensional Visualization of Theory Graphs. *Lecture Notes in Computer Science*, **2020**, 290-296	0.9	1
112	FrameIT: Detangling Knowledge Management from Game Design in Serious Games. *Lecture Notes in Computer Science*, **2020**, 173-189	0.9	
111	Towards a Heterogeneous Query Language for Mathematical Knowledge. *Lecture Notes in Computer Science*, **2020**, 39-54	0.9	1
110	Representing Structural Language Features in Formal Meta-languages. *Lecture Notes in Computer Science*, **2020**, 206-221	0.9	3
109	Towards a Unified Mathematical Data Infrastructure: Database and Interface Generation. *Lecture Notes in Computer Science*, **2019**, 28-43	0.9	3
108	Integrating Semantic Mathematical Documents and Dynamic Notebooks. *Lecture Notes in Computer Science*, **2019**, 275-290	0.9	
107	Relational Data Across Mathematical Libraries. *Lecture Notes in Computer Science*, **2019**, 61-76	0.9	3
106	Model pathway diagrams for the representation of mathematical models. *Optical and Quantum Electronics*, **2018**, 50, 1	2.4	2
105	Theories as Types. *Lecture Notes in Computer Science*, **2018**, 575-590	0.9	7
104	Automatically Finding Theory Morphisms for Knowledge Management. *Lecture Notes in Computer Science*, **2018**, 209-224	0.9	
103	Discourse Phenomena in Mathematical Documents. *Lecture Notes in Computer Science*, **2018**, 147-163	0.9	2
102	Translating the IMPS Theory Library to MMT/OMDoc. *Lecture Notes in Computer Science*, **2018**, 7-22	0.9	2
101	Knowledge Amalgamation for Computational Science and Engineering. *Lecture Notes in Computer Science*, **2018**, 232-247	0.9	1

100	Mathematical Models as Research Data via Flexiformal Theory Graphs. *Lecture Notes in Computer Science*, **2017**, 224-238	0.9	5
99	Classification of Alignments Between Concepts of Formal Mathematical Systems. *Lecture Notes in Computer Science*, **2017**, 83-98	0.9	7
98	Software Citations, Information Systems, and Beyond. *Lecture Notes in Computer Science*, **2017**, 99-114	0.9	
97	Visual Structure in Mathematical Expressions. *Lecture Notes in Computer Science*, **2017**, 208-223	0.9	2
96	Making PVS Accessible to Generic Services by Interpretation in a Universal Format. *Lecture Notes in Computer Science*, **2017**, 319-335	0.9	6
95	Knowledge-Based Interoperability for Mathematical Software Systems. *Lecture Notes in Computer Science*, **2017**, 195-210	0.9	5
94	Virtual Theories A Uniform Interface to Mathematical Knowledge Bases. *Lecture Notes in Computer Science*, **2017**, 243-257	0.9	5
93	The SMGloM Project and System: Towards a Terminology and Ontology for Mathematics. *Lecture Notes in Computer Science*, **2016**, 451-457	0.9	4
92	Interoperability in the OpenDreamKit Project: The Math-in-the-Middle Approach. *Lecture Notes in Computer Science*, **2016**, 117-131	0.9	10
91	Faceted Search for Mathematics. *Lecture Notes in Computer Science*, **2016**, 406-420	0.9	
90	Formula Semantification and Automated Relation Finding in the On-Line Encyclopedia for Integer Sequences. *Lecture Notes in Computer Science*, **2016**, 467-475	0.9	1
89	Math Literate Knowledge Management via Induced Material. *Lecture Notes in Computer Science*, **2015**, 187-202	0.9	
88	A Flexiformal Model of Knowledge Dissemination and Aggregation in Mathematics. *Lecture Notes in Computer Science*, **2015**, 137-152	0.9	
87	Discourse-Level Parallel Markup and Meaning Adoption in Flexiformal Theory Graphs. *Lecture Notes in Computer Science*, **2014**, 36-40	0.9	
86	A Data Model and Encoding for a Semantic, Multilingual Terminology of Mathematics. *Lecture Notes in Computer Science*, **2014**, 169-183	0.9	4
85	Realms: A Structure for Consolidating Knowledge about Mathematical Theories. *Lecture Notes in Computer Science*, **2014**, 252-266	0.9	7
84	Flexary Operators for Formalized Mathematics. *Lecture Notes in Computer Science*, **2014**, 312-327	0.9	6
83	System Description: MathHub.info. *Lecture Notes in Computer Science*, **2014**, 431-434	0.9	4

82	System Description: A Semantics-Aware Open image in new windowto-Office Converter. *Lecture Notes in Computer Science*, **2014**, 440-443	0.9	
81	Representing, Archiving, and Searching the Space of Mathematical Knowledge. *Lecture Notes in Computer Science*, **2014**, 26-30	0.9	1
80	The Mizar Mathematical Library in OMDoc: Translation and Applications. *Journal of Automated Reasoning*, **2013**, 50, 191-202	1	34
79	A scalable module system. *Information and Computation*, **2013**, 230, 1-54	0.8	57
78	Mashups Using Mathematical Knowledge **2013**, 171-204		
77	A Universal Machine for Biform Theory Graphs. *Lecture Notes in Computer Science*, **2013**, 82-97	0.9	2
76	Full Semantic Transparency: Overcoming Boundaries of Applications. *Lecture Notes in Computer Science*, **2013**, 406-423	0.9	1
75	The Flexiformalist Manifesto **2012**,		10
74	Towards Logical Frameworks in the Heterogeneous Tool Set Hets. *Lecture Notes in Computer Science*, **2012**, 139-159	0.9	7
73	Semantics of OpenMath and MathML3. *Mathematics in Computer Science*, **2012**, 6, 235-260	0.5	7
72	Reasoning without believing: on the mechanisation of presuppositions and partiality. *Journal of Applied Non-Classical Logics*, **2012**, 22, 295-317	0.5	
71	Bringing Mathematics to the Web of Data: The Case of the Mathematics Subject Classification. *Lecture Notes in Computer Science*, **2012**, 763-777	0.9	8
70	MathWebSearch 0.5: Scaling an Open Formula Search Engine. *Lecture Notes in Computer Science*, **2012**, 342-357	0.9	10
69	The Planetary Project: Towards eMath3.0. *Lecture Notes in Computer Science*, **2012**, 448-452	0.9	3
68	Reimplementing the Mathematics Subject Classification (MSC) as a Linked Open Dataset. *Lecture Notes in Computer Science*, **2012**, 458-462	0.9	3
67	Semantic Alliance: A Framework for Semantic Allies. *Lecture Notes in Computer Science*, **2012**, 49-64	0.9	4
66	Extending MKM Formats at the Statement Level. *Lecture Notes in Computer Science*, **2012**, 65-80	0.9	6
65	A Proof Theoretic Interpretation of Model Theoretic Hiding. *Lecture Notes in Computer Science*, **2012**, 118-138	0.9	1

64	The Planetary System: Web 3.0 & Active Documents for STEM. *Procedia Computer Science*, **2011**, 4, 598-607	1.6	19
63	Towards a flexible notion of document context **2011**,		2
62	Licensing the Mizar Mathematical Library. *Lecture Notes in Computer Science*, **2011**, 149-163	0.9	14
61	Workflows for the Management of Change in Science, Technologies, Engineering and Mathematics. *Lecture Notes in Computer Science*, **2011**, 164-179	0.9	4
60	Project Abstract: Logic Atlas and Integrator (LATIN). *Lecture Notes in Computer Science*, **2011**, 289-291	0.9	25
59	The LaTeXML Daemon: Editable Math on the Collaborative Web. *Lecture Notes in Computer Science*, **2011**, 292-294	0.9	7
58	A Foundational View on Integration Problems. *Lecture Notes in Computer Science*, **2011**, 107-122	0.9	7
57	The Planetary System: Executable Science, Technology, Engineering and Math Papers. *Lecture Notes in Computer Science*, **2011**, 471-475	0.9	
56	Combining Source, Content, Presentation, Narration, and Relational Representation. *Lecture Notes in Computer Science*, **2011**, 212-227	0.9	5
55	STEX+ **2010**,		7
54	Transforming Large Collections of Scientific Publications to XML. *Mathematics in Computer Science*, **2010**, 3, 299-307	0.5	20
53	Publishing Math Lecture Notes as Linked Data. *Lecture Notes in Computer Science*, **2010**, 370-375	0.9	12
52	Towards MKM in the Large: Modular Representation and Scalable Software Architecture. *Lecture Notes in Computer Science*, **2010**, 370-384	0.9	8
51	Dimensions of Formality: A Case Study for MKM in Software Engineering. *Lecture Notes in Computer Science*, **2010**, 355-369	0.9	1
50	Open image in new window An Integrated Development Environment for Open image in new window Collections. *Lecture Notes in Computer Science*, **2010**, 336-344	0.9	1
49	Context-Aware Adaptation: A Case Study On Mathematical Notations. *Information Systems Management*, **2009**, 26, 215-230	3.1	
48	Modeling task experience in user assistance systems **2009**,		3
47	Semantic transparency in user assistance systems **2009**,		8

46	Applying Semantic Techniques to Search and Analyze Bug Tracking Data. *Journal of Network and Systems Management*, **2009**, 17, 285-308	2.1	12
45	Cut-Simulation and Impredicativity. *Logical Methods in Computer Science*, **2009**, 5,		3
44	Unifying Math Ontologies: A Tale of Two Standards. *Lecture Notes in Computer Science*, **2009**, 263-278	0.9	2
43	Spreadsheet Interaction with Frames: Exploring a Mathematical Practice. *Lecture Notes in Computer Science*, **2009**, 341-356	0.9	5
42	Compensating the Computational Bias of Spreadsheets with MKM Techniques. *Lecture Notes in Computer Science*, **2009**, 357-372	0.9	7
41	A Mathematical Approach to Ontology Authoring and Documentation. *Lecture Notes in Computer Science*, **2009**, 389-404	0.9	7
40	Formal Management of CAD/CAM Processes. *Lecture Notes in Computer Science*, **2009**, 223-238	0.9	4
39	Using as a Semantic Markup Format. *Mathematics in Computer Science*, **2008**, 2, 279-304	0.5	30
38	Transforming the arXiv to XML. *Lecture Notes in Computer Science*, **2008**, 574-582	0.9	3
37	SWiM **2008**, 47-68		4
36	Notations for Living Mathematical Documents. *Lecture Notes in Computer Science*, **2008**, 504-519	0.9	11
35	Towards a Community of Practice Toolkit Based on Semantically Marked Up Artifacts. *Lecture Notes in Computer Science*, **2008**, 41-50	0.9	1
34	Reexamining the MKM Value Proposition: From Math Web Search to Math Web ReSearch. *Lecture Notes in Computer Science*, **2007**, 313-326	0.9	5
33	Extended Formula Normalization for Retrieval and Sharing of Mathematical Knowledge. *Lecture Notes in Computer Science*, **2007**, 356-370	0.9	8
32	A Search Engine for Mathematical Formulae. *Lecture Notes in Computer Science*, **2006**, 241-253	0.9	58
31	Cut-Simulation in Impredicative Logics. *Lecture Notes in Computer Science*, **2006**, 220-234	0.9	1
30	OMDoc: Open Mathematical Documents. *Lecture Notes in Computer Science*, **2006**, 25-32	0.9	3
29	An Exploration in the Space of Mathematical Knowledge. *Lecture Notes in Computer Science*, **2006**, 17-32	0.9	4

28	Capturing the Content of Physics: Systems, Observables, and Experiments. *Lecture Notes in Computer Science*, **2006**, 165-178	0.9	4
27	Communities of Practice in MKM: An Extensional Model. *Lecture Notes in Computer Science*, **2006**, 179-193	0.9	7
26	OMDoc An Open Markup Format for Mathematical Documents [version 1.2]. *Lecture Notes in Computer Science*, **2006**,	0.9	83
25	Higher-order semantics and extensionality. *Journal of Symbolic Logic*, **2004**, 69, 1027-1088	0.4	52
24	CPoint: Dissolving the Author Dilemma. *Lecture Notes in Computer Science*, **2004**, 175-189	0.9	6
23	Towards Collaborative Content Management and Version Control for Structured Mathematical Knowledge. *Lecture Notes in Computer Science*, **2003**, 147-161	0.9	8
22	System Description: The MathWeb Software Bus for Distributed Mathematical Reasoning. *Lecture Notes in Computer Science*, **2002**, 139-143	0.9	7
21	MBase: Representing Knowledge and Context for the Integration of Mathematical Software Systems. *Journal of Symbolic Computation*, **2001**, 32, 365-402	0.8	27
20	Inference and Computational Semantics. *Studies in Linguistics and Philosophy*, **2001**, 11-28	0.2	12
19	OMDoc: Towards an Internet Standard for the Administration, Distribution, and Teaching of Mathematical Knowledge. *Lecture Notes in Computer Science*, **2001**, 32-52	0.9	20
18	Managing Structural Information by Higher-Order Colored Unification **2000**, 25, 123-164		5
17	OMDoc. *SIGSAM Bulletin: A Quarterly Publication of the Special Interest Group on Symbolic & Algebraic Manipulation*, **2000**, 34, 43-48		11
16	System Description: MBase, an Open Mathematical Knowledge Base. *Lecture Notes in Computer Science*, **2000**, 455-459	0.9	10
15	Higher-Order Multi-Valued Resolution. *Journal of Applied Non-Classical Logics*, **1999**, 9, 455-477	0.5	2
14	MBase: Representing mathematical Knowledge in a Relational Data Base. *Electronic Notes in Theoretical Computer Science*, **1999**, 23, 451-468	0.7	
13	LOUI: Lovely OMEGA User Interface. *Formal Aspects of Computing*, **1999**, 11, 326-342	1.2	24
12	System Description: MathWeb, an Agent-Based Communication Layer for Distributed Automated Theorem Proving. *Lecture Notes in Computer Science*, **1999**, 217-221	0.9	19
11	Integrating Computer Algebra into Proof Planning. *Journal of Automated Reasoning*, **1998**, 21, 327-355	1	33

10	System description: Leo A higher-order theorem prover. *Lecture Notes in Computer Science*, **1998**, 139-143	0.9	23
9	Extensional higher-order resolution. *Lecture Notes in Computer Science*, **1998**, 56-71	0.9	11
8	hega: Towards a mathematical assistant. *Lecture Notes in Computer Science*, **1997**, 252-255	0.9	39
7	Die Beweisentwicklungsumgebung(Omega) -Mkrp. *Computer Science - Research and Development*, **1996**, 11, 20-26		1
6	A Tableau Calculus for Partial Functions. *Journal of Zoological Systematics and Evolutionary Research* , **1996**, 21-49	1.9	4
5	Higher-order tableaux. *Lecture Notes in Computer Science*, **1995**, 294-309	0.9	11
4	Unification in a sorted calculus with term declarations and function sorts. *Lecture Notes in Computer Science*, **1994**, 331-342	0.9	
3	A mechanization of strong Kleene logic for partial functions. *Lecture Notes in Computer Science*, **1994**, 371-385	0.9	12
2	Unification in order-sorted type theory **1992**, 421-432		4
1	GF + MMT = GLF From Language to Semantics through LF. *Electronic Proceedings in Theoretical Computer Science, EPTCS*,307, 24-39		3