

# Peter Michael Schuster

## List of Publications by Year in descending order

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73  
papers

499  
citations

759233

12  
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16  
g-index

79  
all docs

79  
docs citations

79  
times ranked

72  
citing authors

#	ARTICLE	IF	CITATIONS
1	A weak countable choice principle. Proceedings of the American Mathematical Society, 2000, 128, 2749-2752.	0.8	21
2	The fan theorem and unique existence of maxima. Journal of Symbolic Logic, 2006, 71, 713-720.	0.5	20
3	The Gr�bner ring conjecture in one variable. Mathematische Zeitschrift, 2012, 270, 1181-1185.	0.9	20
4	A universal Krull-Lindenbaum theorem. Journal of Pure and Applied Algebra, 2016, 220, 3207-3232.	0.6	20
5	Eliminating disjunctions by disjunction elimination. Indagationes Mathematicae, 2018, 29, 226-259.	0.4	20
6	ELIMINATING DISJUNCTIONS BY DISJUNCTION ELIMINATION. Bulletin of Symbolic Logic, 2017, 23, 181-200.	0.2	19
7	Strong continuity implies uniform sequential continuity. Archive for Mathematical Logic, 2005, 44, 887-895.	0.3	17
8	Induction in Algebra: a First Case Study. Logical Methods in Computer Science, 2013, 9, .	0.4	16
9	Apartness as a Relation Between Subsets. , 2001, , 203-214.		15
10	Compactness under constructive scrutiny. Mathematical Logic Quarterly, 2004, 50, 540-550.	0.2	15
11	Induction in Algebra: A First Case Study. , 2012, , .		15
12	Formal Zariski topology: Positivity and points. Annals of Pure and Applied Logic, 2006, 137, 317-359.	0.5	14
13	Noetherian orders. Mathematical Structures in Computer Science, 2011, 21, 111-124.	0.6	14
14	Spatiality for formal topologies. Mathematical Structures in Computer Science, 2007, 17, 65-80.	0.6	13
15	Unique existence, approximate solutions, and countable choice. Theoretical Computer Science, 2003, 305, 433-455.	0.9	12
16	On constructing completions. Journal of Symbolic Logic, 2005, 70, 969-978.	0.5	12
17	A Constructive Look at Generalised Cauchy Reals. Mathematical Logic Quarterly, 2000, 46, 125-134.	0.2	11
18	A nilregular element property. Archiv Der Mathematik, 2005, 85, 49-54.	0.5	11

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19	Unique solutions. <i>Mathematical Logic Quarterly</i> , 2006, 52, 534-539.	0.2	11
20	Quasi-apartness and neighbourhood spaces. <i>Annals of Pure and Applied Logic</i> , 2006, 141, 296-306.	0.5	10
21	Apartness, Topology, and Uniformity: a Constructive View. <i>Mathematical Logic Quarterly</i> , 2002, 48, 16-28.	0.2	9
22	A Constructive Uniform Continuity Theorem. <i>Quarterly Journal of Mathematics</i> , 2002, 53, 185-193.	0.8	7
23	Classifying Dini's Theorem. <i>Notre Dame Journal of Formal Logic</i> , 2006, 47, 253.	0.4	7
24	Binary Refinement Implies Discrete Exponentiation. <i>Studia Logica</i> , 2007, 84, 361-368.	0.6	7
25	Constructing Gröbner bases for Noetherian rings. <i>Mathematical Structures in Computer Science</i> , 2014, 24, .	0.6	7
26	Finite Methods in Mathematical Practice. , 0, , .		7
27	Compactness and Continuity, Constructively Revisited. <i>Lecture Notes in Computer Science</i> , 2002, , 89-102.	1.3	7
28	Der Satz von Hahn-Banach per Disjunktionselemination. <i>Confluentes Mathematici</i> , 2019, 11, 79-93.	0.2	7
29	A simple constructive proof of Kronecker's Density Theorem. <i>Elemente Der Mathematik</i> , 2006, 61, 152-154.	0.1	6
30	A continuity principle, a version of Baire's theorem and a boundedness principle. <i>Journal of Symbolic Logic</i> , 2008, 73, 1354-1360.	0.5	6
31	Dini's Theorem in the Light of Reverse Mathematics. <i>Synthese Library</i> , 2009, , 153-166.	0.2	6
32	Resolving finite indeterminacy. , 2020, , .		6
33	Linear independence without choice. <i>Annals of Pure and Applied Logic</i> , 1999, 101, 95-102.	0.5	5
34	Elementary Choiceless Constructive Analysis. <i>Lecture Notes in Computer Science</i> , 2000, , 512-526.	1.3	5
35	The polydisk nullstellensatz. <i>Proceedings of the American Mathematical Society</i> , 2003, 132, 2133-2140.	0.8	5
36	The Zariski spectrum as a formal geometry. <i>Theoretical Computer Science</i> , 2008, 405, 101-115.	0.9	5

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37	Spectral schemes as ringed lattices. <i>Annals of Mathematics and Artificial Intelligence</i> , 2009, 56, 339-360.	1.3	5
38	An Algorithmic Approach to the Existence of Ideal Objects in Commutative Algebra. <i>Lecture Notes in Computer Science</i> , 2019, , 533-549.	1.3	5
39	The shrinking principle and the axiom of choice. <i>Monatshefte Fur Mathematik</i> , 2007, 151, 263-270.	0.9	4
40	Apartness, compactness and nearness. <i>Theoretical Computer Science</i> , 2008, 405, 3-10.	0.9	4
41	Problems, solutions, and completions. <i>The Journal of Logic and Algebraic Programming</i> , 2010, 79, 84-91.	1.4	4
42	Lindenbaum's Lemma via Open Induction. <i>Philology</i> , 2016, , 65-77.	0.2	4
43	A universal algorithm for Krull's theorem. <i>Information and Computation</i> , 2021, , 104761.	0.7	4
44	The Basic Zariski Topology. <i>Confluentes Mathematici</i> , 2015, 7, 55-81.	0.2	4
45	Strong Versus Uniform Continuity: A Constructive Round. <i>Quaestiones Mathematicae</i> , 2003, 26, 171-190.	0.6	3
46	Do Noetherian Modules Have Noetherian Basis Functions?. <i>Lecture Notes in Computer Science</i> , 2006, , 481-489.	1.3	3
47	Corrigendum to "Unique solutions". <i>Mathematical Logic Quarterly</i> , 2007, 53, 214-214.	0.2	3
48	The Kripke schema in metric topology. <i>Mathematical Logic Quarterly</i> , 2012, 58, 498-501.	0.2	3
49	Dynamic evaluation of integrity and the computational content of Krull's lemma. <i>Journal of Pure and Applied Algebra</i> , 2022, 226, 106794.	0.6	3
50	The Computational Significance of Hausdorff's Maximal Chain Principle. <i>Lecture Notes in Computer Science</i> , 2020, , 239-250.	1.3	3
51	Ideals in constructive Banach algebra theory. <i>Journal of Complexity</i> , 2006, 22, 729-737.	1.3	2
52	Kronecker's density theorem and irrational numbers in constructive reverse mathematics. <i>Mathematische Semesterberichte</i> , 2010, 57, 57-72.	0.2	2
53	A Direct Proof of Wiener's Theorem. <i>Lecture Notes in Computer Science</i> , 2012, , 293-302.	1.3	2
54	A predicative completion of a uniform space. <i>Annals of Pure and Applied Logic</i> , 2012, 163, 975-980.	0.5	2

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55	Uniqueness, continuity and the existence of implicit functions in constructive analysis. LMS Journal of Computation and Mathematics, 0, 14, 127-136.	0.9	2
56	The Jacobson Radical of a Propositional Theory. Bulletin of Symbolic Logic, 0, , 1-20.	0.2	2
57	The Jacobson radical for an inconsistency predicate. Computability, 2022, 11, 147-162.	0.3	2
58	Identifying variable points on a smooth curve. Manuscripta Mathematica, 1997, 94, 195-210.	0.6	1
59	Almost locatedness in uniform spaces. Czechoslovak Mathematical Journal, 2007, 57, 1-12.	0.3	1
60	On the contrapositive of countable choice. Archive for Mathematical Logic, 2011, 50, 137-143.	0.3	1
61	Are There Enough Injective Sets?. Studia Logica, 2013, 101, 467-482.	0.6	1
62	Problems as Solutions. Lecture Notes in Computer Science, 2007, , 676-684.	1.3	1
63	Unique paths as formal points. Journal of Logic and Analysis, 0, , 1-9.	0.5	1
64	The moduli of substructures of a compact complex space. Proceedings of the American Mathematical Society, 1998, 126, 1983-1987.	0.8	0
65	A very weak Nullstellensatz over Heyting fields. Indagationes Mathematicae, 1999, 10, 117-122.	0.4	0
66	Too simple solutions of hard problems. Nordic Journal of Philosophical Logic, 2001, 6, 138-146.	0.1	0
67	Editorial: Math. Log. Quart. 1/2008. Mathematical Logic Quarterly, 2008, 54, 4-4.	0.2	0
68	A generalized cut characterization of the fullness axiom in CZF. Logic Journal of the IGPL, 2013, 21, 63-76.	1.5	0
69	APPROXIMATING BEPPO LEVI'S PRINCIPIO DI APPROSSIMAZIONE. Bulletin of Symbolic Logic, 2014, 20, 141-169.	0.2	0
70	Some forms of excluded middle for linear orders. Mathematical Logic Quarterly, 2019, 65, 105-107.	0.2	0
71	Preface for the special issue of Proof, Structure, and Computation 2014. Journal of Logic and Computation, 2019, 29, 417-418.	0.8	0
72	On Scott's semantics for many-valued logic. Journal of Logic and Computation, 2020, 30, 1291-1302.	0.8	0

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73	A General Glivenko-Gödel Theorem for Nuclei. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 351, 51-66.	0.8	0