Ulrich Kohlenbach

List of Publications by Year
in descending order

79 papers	1,272 citations	394421 19 h-index	434195 31 g-index
83 all docs	83 docs citations	83 times ranked	161 citing authors

#	Article	IF	Citations
1	Some logical metatheorems with applications in functional analysis. Transactions of the American Mathematical Society, 2004, 357, 89-128.	0.9	195
2	Effective moduli from ineffective uniqueness proofs. An unwinding of de La Vallée Poussin's proof for Chebycheff approximation. Annals of Pure and Applied Logic, 1993, 64, 27-94.	0.5	68
3	Mathematically strong subsystems of analysis with low rate of growth of provably recursive functionals. Archive for Mathematical Logic, 1996, 36, 31-71.	0.3	58
4	General logical metatheorems for functional analysis. Transactions of the American Mathematical Society, 2008, 360, 2615-2660.	0.9	49
5	Effective bounds from ineffective proofs in analysis: An application of functional interpretation and majorization. Journal of Symbolic Logic, 1992, 57, 1239-1273.	0.5	47
6	On quantitative versions of theorems due to F.E. Browder and R. Wittmann. Advances in Mathematics, 2011, 226, 2764-2795.	1.1	39
7	A QUANTITATIVE VERSION OF A THEOREM DUE TO BORWEIN-REICH-SHAFRIR. Numerical Functional Analysis and Optimization, 2001, 22, 641-656.	1.4	35
8	Asymptotically nonexpansive mappings in uniformly convex hyperbolic spaces. Journal of the European Mathematical Society, 2009, 12, 71-92.	1.4	33
9	Uniform asymptotic regularity for Mann iterates. Journal of Mathematical Analysis and Applications, 2003, 279, 531-544.	1.0	32
10	Mann iterates of directionally nonexpansive mappings in hyperbolic spaces. Abstract and Applied Analysis, 2003, 2003, 449-477.	0.7	31
11	An arithmetical hierarchy of the law of excluded middle and related principles. , 2004, , .		27
12	Effective metastability of Halpern iterates in CAT(0) spaces. Advances in Mathematics, 2012, 231, 2526-2556.	1.1	26
13	Pointwise hereditary majorization and some applications. Archive for Mathematical Logic, 1992, 31, 227-241.	0.3	25
14	New effective moduli of uniqueness and uniform a priori estimates for constants of strong unicity by logical analysis of known proofs in best approximation theory. Numerical Functional Analysis and Optimization, 1993, 14, 581-606.	1.4	25
15	Proof theory and computational analysis. Electronic Notes in Theoretical Computer Science, 1998, 13, 124-157.	0.9	22
16	On the No-Counterexample Interpretation. Journal of Symbolic Logic, 1999, 64, 1491-1511.	0.5	22
17	Some computational aspects of metric fixed-point theory. Nonlinear Analysis: Theory, Methods & Applications, 2005, 61, 823-837.	1.1	22
18	A quantitative mean ergodic theorem for uniformly convex Banach spaces. Ergodic Theory and Dynamical Systems, 2009, 29, 1907-1915.	0.6	21

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19	Rates of convergence and metastability for abstract Cauchy problems generated by accretive operators. Journal of Mathematical Analysis and Applications, 2015, 423, 1089-1112.	1.0	21
20	Relative constructivity. Journal of Symbolic Logic, 1998, 63, 1218-1238.	0.5	20
21	Things that can and things that cannot be done in PRA. Annals of Pure and Applied Logic, 2000, 102, 223-245.	0.5	20
22	Proof mining in L1-approximation. Annals of Pure and Applied Logic, 2003, 121, 1-38.	0.5	20
23	Arithmetizing proofs in analysis. Lecture Notes in Logic, 1998, , 115-158.	0.1	20
24	On uniform weak König's lemma. Annals of Pure and Applied Logic, 2002, 114, 103-116.	0.5	19
25	Shoenfield is Gödel after Krivine. Mathematical Logic Quarterly, 2007, 53, 176-179.	0.2	19
26	Elimination of Skolem functions for monotone formulas in analysis. Archive for Mathematical Logic, 1998, 37, 363-390.	0.3	18
27	PROOF-THEORETIC METHODS IN NONLINEAR ANALYSIS. , 2019, , .		18
28	Extracting Herbrand disjunctions by functional interpretation. Archive for Mathematical Logic, 2005, 44, 633-644.	0.3	15
29	The approximate fixed point property in product spaces. Nonlinear Analysis: Theory, Methods & Applications, 2007, 66, 806-818.	1.1	15
30	On the computational content of convergence proofs via Banach limits. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2012, 370, 3449-3463.	3.4	15
31	Strongly uniform bounds from semi-constructive proofs. Annals of Pure and Applied Logic, 2006, 141, 89-107.	0.5	14
32	Fluctuations, effective learnability and metastability in analysis. Annals of Pure and Applied Logic, 2014, 165, 266-304.	0.5	13
33	On the quantitative asymptotic behavior of strongly nonexpansive mappings in banach and geodesic spaces. Israel Journal of Mathematics, 2016, 216, 215-246.	0.8	12
34	On the computational content of the Bolzano-Weierstraß Principle. Mathematical Logic Quarterly, 2010, 56, 508-532.	0.2	11
35	A UNIFORM QUANTITATIVE FORM OF SEQUENTIAL WEAK COMPACTNESS AND BAILLON'S NONLINEAR ERGODIC THEOREM. Communications in Contemporary Mathematics, 2012, 14, 1250006.	1.2	11
36	Quantitative asymptotic regularity results for the composition of two mappings. Optimization, 2017, 66, 1291-1299.	1.7	11

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37	Quantitative results on Fejér monotone sequences. Communications in Contemporary Mathematics, 2018, 20, 1750015.	1.2	11
38	Logical metatheorems for abstract spaces axiomatized in positive bounded logic. Advances in Mathematics, 2016, 290, 503-551.	1.1	10
39	On the Computational Content of the Krasnoselski and Ishikawa Fixed Point Theorems. Lecture Notes in Computer Science, 2001, , 119-145.	1.3	10
40	A Logical Uniform Boundedness Principle for Abstract Metric and Hyperbolic Spaces. Electronic Notes in Theoretical Computer Science, 2006, 165, 81-93.	0.9	9
41	A note on Spector's quantifier-free rule of extensionality. Archive for Mathematical Logic, 2001, 40, 89-92.	0.3	8
42	INTERRELATION BETWEEN WEAK FRAGMENTS OF DOUBLE NEGATION SHIFT AND RELATED PRINCIPLES. Journal of Symbolic Logic, 2018, 83, 991-1012.	0.5	8
43	A Polynomial Rate of Asymptotic Regularity for Compositions of Projections in Hilbert Space. Foundations of Computational Mathematics, 2019, 19, 83-99.	2.5	8
44	Effective Uniform Bounds from Proofs in Abstract Functional Analysis. , 2008, , 223-258.		8
45	On the arithmetical content of restricted forms of comprehension, choice and general uniform boundedness. Annals of Pure and Applied Logic, 1998, 95, 257-285.	0.5	7
46	On Tao's "finitary" infinite pigeonhole principle. Journal of Symbolic Logic, 2010, 75, 355-371.	0.5	7
47	Effective rates of convergence for Lipschitzian pseudocontractive mappings in general Banach spaces. Nonlinear Analysis: Theory, Methods & Applications, 2011, 74, 5253-5267.	1.1	7
48	Addendum to "Effective metastability of Halpern iterates in CAT(0) spaces"[Adv. Math. 231 (5) (2012) 2526–2556]. Advances in Mathematics, 2014, 250, 650-651.	1.1	7
49	Moduli of regularity and rates of convergence for Fejér monotone sequences. Israel Journal of Mathematics, 2019, 232, 261-297.	0.8	7
50	The finitary content of sunny nonexpansive retractions. Communications in Contemporary Mathematics, 2021, 23, 1950093.	1.2	7
51	Gödel's Functional Interpretation and its Use in Current Mathematics*. Dialectica, 2008, 62, 223-267.	0.3	6
52	Term extraction and Ramsey's theorem for pairs. Journal of Symbolic Logic, 2012, 77, 853-895.	0.5	6
53	Effective metastability for modified Halpern iterations in CAT(0) spaces. Fixed Point Theory and Applications, 2012, 2012, .	1.1	6
54	Rate of Metastability for Bruck'S Iteration of Pseudocontractive Mappings in Hilbert Space. Numerical Functional Analysis and Optimization, 2014, 35, 20-31.	1.4	6

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55	A complexity analysis of functional interpretations. Theoretical Computer Science, 2005, 338, 200-246.	0.9	5
56	Bounds on Kuhfittig's iteration schema in uniformly convex hyperbolic spaces. Journal of Mathematical Analysis and Applications, 2013, 403, 633-642.	1.0	5
57	On the Disjunctive Markov Principle. Studia Logica, 2015, 103, 1313-1317.	0.6	5
58	General Logical Metatheorems for Functional Analysis. BRICS Report Series, 2005, 12, .	0.2	5
59	Intuitionistic Choice and Restricted Classical Logic. Mathematical Logic Quarterly, 2001, 47, 455-460.	0.2	4
60	On Weak Markov's Principle. Mathematical Logic Quarterly, 2002, 48, 59-65.	0.2	4
61	Quantitative image recovery theorems. Nonlinear Analysis: Theory, Methods & Applications, 2014, 106, 138-150.	1.1	4
62	On the reverse mathematics and Weihrauch complexity of moduli of regularity and uniqueness. Computability, 2019, 8, 377-387.	0.3	4
63	A uniform betweenness property in metric spaces and its role in the quantitative analysis of the "Lion-Man" game. Pacific Journal of Mathematics, 2021, 310, 181-212.	0.5	4
64	Quantitative translations for viscosity approximation methods in hyperbolic spaces. Journal of Mathematical Analysis and Applications, 2022, 507, 125823.	1.0	4
65	A Note on Goodman's Theorem. Studia Logica, 1999, 63, 1-5.	0.6	3
66	On the asymptotic behavior of odd operators. Journal of Mathematical Analysis and Applications, 2011, 382, 615-620.	1.0	3
67	Effective asymptotic regularity for one-parameter nonexpansive semigroups. Journal of Mathematical Analysis and Applications, 2016, 433, 1883-1903.	1.0	3
68	Rates of convergence for iterative solutions of equations involving set-valued accretive operators. Computers and Mathematics With Applications, 2020, 80, 490-503.	2.7	3
69	On the proximal point algorithm and its Halpern-type variant for generalized monotone operators in Hilbert space. Optimization Letters, 2022, 16, 611-621.	1.6	3
70	A Proof-Theoretic Bound Extraction Theorem for CAT $$(\kappa)$$ ($\hat{I}^o$) -Spaces. Studia Logica, 2017, 105, 611-624.	0.6	2
71	Gödel functional interpretation and weak compactness. Annals of Pure and Applied Logic, 2012, 163, 1560-1579.	0.5	1
72	Classical provability of uniform versions and intuitionistic provability. Mathematical Logic Quarterly, 2015, 61, 132-150.	0.2	1

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73	Proof-theoretic uniform boundedness and bounded collection principles and countable Heine–Borel compactness. Archive for Mathematical Logic, 2021, 60, 995.	0.3	1
74	Quantitative analysis of a subgradient-type method for equilibrium problems. Numerical Algorithms, 0, , 1.	1.9	1
75	Gödel's Functional Interpretation and Its Use in Current Mathematics. , 0, , 361-398.		0
76	Grigori Mints, Sergei Tupailo, and Wilfried Buchholz. Epsilon substitution method for elementary analysis. Archive for mathematical logic, vol. 35 (1996), pp. 103–130.. Bulletin of Symbolic Logic, 2000, 6, 356-357.	0.2	0
77	A note on the monotone functional interpretation. Mathematical Logic Quarterly, 2011, 57, 611-614.	0.2	0
78	A note on the Π^0_2 -induction rule. Archive for Mathematical Logic, 1995, 34, 279-283.	0.3	0
79	Bounds for a nonlinear ergodic theorem for Banach spaces. Ergodic Theory and Dynamical Systems, 0, , 1-24.	0.6	0