

Andre Nies

List of Publications by Year in descending order

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125
papers

2,050
citations

394421

19
h-index

377865

34
g-index

126
all docs

126
docs citations

126
times ranked

206
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Lowness properties and randomness. <i>Advances in Mathematics</i> , 2005, 197, 274-305. | 1.1 | 157 |
| 2 | Randomness, relativization and Turing degrees. <i>Journal of Symbolic Logic</i> , 2005, 70, 515-535. | 0.5 | 90 |
| 3 | Randomness and Computability: Open Questions. <i>Bulletin of Symbolic Logic</i> , 2006, 12, 390-410. | 0.2 | 65 |
| 4 | Computable Models of Theories with Few Models. <i>Notre Dame Journal of Formal Logic</i> , 1997, 38, . | 0.4 | 60 |
| 5 | Calibrating Randomness. <i>Bulletin of Symbolic Logic</i> , 2006, 12, 411-491. | 0.2 | 59 |
| 6 | Interpretability and Definability in the Recursively Enumerable Degrees. <i>Proceedings of the London Mathematical Society</i> , 1998, 77, 241-291. | 1.3 | 57 |
| 7 | Using random sets as oracles. <i>Journal of the London Mathematical Society</i> , 2007, 75, 610-622. | 1.0 | 57 |
| 8 | Describing Groups. <i>Bulletin of Symbolic Logic</i> , 2007, 13, 305-339. | 0.2 | 49 |
| 9 | Lowness for the Class of Schnorr Random Reals. <i>SIAM Journal on Computing</i> , 2005, 35, 647-657. | 1.0 | 45 |
| 10 | Kolmogorov's Loveland randomness and stochasticity. <i>Annals of Pure and Applied Logic</i> , 2006, 138, 183-210. | 0.5 | 44 |
| 11 | RELATIVIZING CHAITIN'S HALTING PROBABILITY. <i>Journal of Mathematical Logic</i> , 2005, 05, 167-192. | 0.6 | 43 |
| 12 | Randomness, Computability, and Density. <i>SIAM Journal on Computing</i> , 2002, 31, 1169-1183. | 1.0 | 42 |
| 13 | TRIVIAL REALS. , 2003, , . | | 33 |
| 14 | Automatic Structures: Richness and Limitations. <i>Logical Methods in Computer Science</i> , 0, Volume 3, Issue 2, . | 0.4 | 33 |
| 15 | Randomness and differentiability. <i>Transactions of the American Mathematical Society</i> , 2016, 368, 581-605. | 0.9 | 30 |
| 16 | Lowness properties and approximations of the jump. <i>Annals of Pure and Applied Logic</i> , 2008, 152, 51-66. | 0.5 | 26 |
| 17 | Demuth randomness and computational complexity. <i>Annals of Pure and Applied Logic</i> , 2011, 162, 504-513. | 0.5 | 25 |
| 18 | Separating Classes of Groups by First-Order Sentences. <i>International Journal of Algebra and Computation</i> , 2003, 13, 287-302. | 0.5 | 24 |

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|----|--|-----|-----------|
| 19 | Lowness and nullsets. <i>Journal of Symbolic Logic</i> , 2006, 71, 1044-1052. | 0.5 | 24 |
| 20 | FA-presentable groups and rings. <i>Journal of Algebra</i> , 2008, 320, 569-585. | 0.7 | 24 |
| 21 | Computably enumerable sets and quasi-reducibility. <i>Annals of Pure and Applied Logic</i> , 1998, 95, 1-35. | 0.5 | 22 |
| 22 | Randomness via effective descriptive set theory. <i>Journal of the London Mathematical Society</i> , 2007, 75, 495-508. | 1.0 | 19 |
| 23 | Reals which compute little. , 2017, , 261-275. | | 19 |
| 24 | Metric Scott analysis. <i>Advances in Mathematics</i> , 2017, 318, 46-87. | 1.1 | 19 |
| 25 | Coding in the Partial Order of Enumerable Sets. <i>Advances in Mathematics</i> , 1998, 133, 133-162. | 1.1 | 18 |
| 26 | Benign cost functions and lowness properties. <i>Journal of Symbolic Logic</i> , 2011, 76, 289-312. | 0.5 | 18 |
| 27 | Coherent randomness tests and computing the Σ^1_1 -trivial sets. <i>Journal of the European Mathematical Society</i> , 2016, 18, 773-812. | 1.4 | 16 |
| 28 | Lowness of higher randomness notions. <i>Israel Journal of Mathematics</i> , 2008, 166, 39-60. | 0.8 | 15 |
| 29 | Characterizing the strongly jump-traceable sets via randomness. <i>Advances in Mathematics</i> , 2012, 231, 2252-2293. | 1.1 | 15 |
| 30 | The theory of the recursively enumerable weak truth-table degrees is undecidable. <i>Journal of Symbolic Logic</i> , 1992, 57, 864-874. | 0.5 | 14 |
| 31 | Randomness notions and partial relativization. <i>Israel Journal of Mathematics</i> , 2012, 191, 791-816. | 0.8 | 14 |
| 32 | COMPLEXITY OF EQUIVALENCE RELATIONS AND PREORDERS FROM COMPUTABILITY THEORY. <i>Journal of Symbolic Logic</i> , 2014, 79, 859-881. | 0.5 | 14 |
| 33 | The Classification Problem for Compact Computable Metric Spaces. <i>Lecture Notes in Computer Science</i> , 2013, , 320-328. | 1.3 | 14 |
| 34 | Denjoy, Demuth and density. <i>Journal of Mathematical Logic</i> , 2014, 14, 1450004. | 0.6 | 13 |
| 35 | Definability in the Recursively Enumerable Degrees. <i>Bulletin of Symbolic Logic</i> , 1996, 2, 392-404. | 0.2 | 12 |
| 36 | A New Spectrum of Recursive Models. <i>Notre Dame Journal of Formal Logic</i> , 1999, 40, 307. | 0.4 | 12 |

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|----|--|-----|-----------|
| 37 | Aspects of free groups. Journal of Algebra, 2003, 263, 119-125. | 0.7 | 12 |
| 38 | From Automatic Structures to Borel Structures. Proceedings - Symposium on Logic in Computer Science, 2008, , . | 0.0 | 12 |
| 39 | Finite automata presentable abelian groups. Annals of Pure and Applied Logic, 2009, 161, 458-467. | 0.5 | 12 |
| 40 | COMPUTINGK-TRIVIAL SETS BY INCOMPLETE RANDOM SETS. Bulletin of Symbolic Logic, 2014, 20, 80-90. | 0.2 | 12 |
| 41 | Intervals of the Lattice of Computably Enumerable Sets and Effective Boolean Algebras. Bulletin of the London Mathematical Society, 1997, 29, 683-692. | 0.8 | 11 |
| 42 | Indifferent Sets. Journal of Logic and Computation, 2008, 19, 425-443. | 0.8 | 11 |
| 43 | Algorithmic Aspects of Lipschitz Functions. Computability, 2014, 3, 45-61. | 0.3 | 11 |
| 44 | USING ALMOST-EVERYWHERE THEOREMS FROM ANALYSIS TO STUDY RANDOMNESS. Bulletin of Symbolic Logic, 2016, 22, 305-331. | 0.2 | 11 |
| 45 | The theory of the polynomial many-one degrees of recursive sets is undecidable. Lecture Notes in Computer Science, 1992, , 209-218. | 1.3 | 11 |
| 46 | The last question on recursively enumerable-degrees. Algebra and Logic, 1994, 33, 307-314. | 0.3 | 10 |
| 47 | Equivalence Relations That Are Σ^0_3 Complete for Computable Reducibility. Lecture Notes in Computer Science, 2012, , 26-33. | 1.3 | 10 |
| 48 | The undecidability of the $\hat{14}$ -theory for the r.e. wtt and Turing degrees. Journal of Symbolic Logic, 1995, 60, 1118-1136. | 0.5 | 9 |
| 49 | PARAMETER DEFINABILITY IN THE RECURSIVELY ENUMERABLE DEGREES. Journal of Mathematical Logic, 2003, 03, 37-65. | 0.6 | 9 |
| 50 | Calibrating word problems of groups via the complexity of equivalence relations. Mathematical Structures in Computer Science, 2018, 28, 457-471. | 0.6 | 9 |
| 51 | Comparing quasi-finitely axiomatizable and prime groups. Journal of Group Theory, 2007, 10, . | 0.2 | 8 |
| 52 | Higher Kurtz randomness. Annals of Pure and Applied Logic, 2010, 161, 1280-1290. | 0.5 | 8 |
| 53 | Universal recursively enumerable sets of strings. Theoretical Computer Science, 2011, 412, 2253-2261. | 0.9 | 8 |
| 54 | A Unifying Approach to the Gamma Question. , 2015, , . | | 8 |

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|----|--|-----|-----------|
| 55 | Solovay functions and their applications in algorithmic randomness. Journal of Computer and System Sciences, 2015, 81, 1575-1591. | 1.2 | 8 |
| 56 | Effectively dense Boolean algebras and their applications. Transactions of the American Mathematical Society, 2000, 352, 4989-5012. | 0.9 | 8 |
| 57 | Counting the changes of random $\hat{\pi}^{\omega_1}$ sets. Journal of Logic and Computation, 2015, 25, 1073-1089. | 0.8 | 7 |
| 58 | Highness properties close to PA completeness. Israel Journal of Mathematics, 2021, 244, 419-465. | 0.8 | 7 |
| 59 | Interpreting true arithmetic in the theory of the r.e. truth table degrees. Annals of Pure and Applied Logic, 1995, 75, 269-311. | 0.5 | 6 |
| 60 | Lowness Properties of Reals and Hyper-Immunity. Electronic Notes in Theoretical Computer Science, 2003, 84, 73-79. | 0.9 | 6 |
| 61 | The Σ_1^1 -theory of $\mathcal{R}(\leq, \vee, \wedge)$ is undecidable. Transactions of the American Mathematical Society, 2003, 356, 3025-3067. | 0.9 | 6 |
| 62 | Program Size Complexity for Possibly Infinite Computations. Notre Dame Journal of Formal Logic, 2005, 46, 51. | 0.4 | 6 |
| 63 | FINITELY GENERATED GROUPS AND FIRST-ORDER LOGIC. Journal of the London Mathematical Society, 2005, 71, 545-562. | 1.0 | 6 |
| 64 | Σ_1^1 -triviality in computable metric spaces. Proceedings of the American Mathematical Society, 2013, 141, 2885-2899. | 0.8 | 6 |
| 65 | A Universal Separable Diversity. Analysis and Geometry in Metric Spaces, 2017, 5, 138-151. | 0.5 | 6 |
| 66 | THE COMPLEXITY OF TOPOLOGICAL GROUP ISOMORPHISM. Journal of Symbolic Logic, 2018, 83, 1190-1203. | 0.5 | 6 |
| 67 | Non-cupping and randomness. Proceedings of the American Mathematical Society, 2006, 135, 837-844. | 0.8 | 6 |
| 68 | LOWNESS FOR COMPUTABLE MACHINES. Lecture Notes Series, Institute for Mathematical Sciences, 2008, , 79-86. | 0.2 | 6 |
| 69 | An Analogy between Cardinal Characteristics and Highness Properties of Oracles. , 2015, , . | | 6 |
| 70 | Structural properties and $\hat{\pi}^{\omega_1}$ enumeration degrees. Journal of Symbolic Logic, 2000, 65, 285-292. | 0.5 | 5 |
| 71 | Initial segments of the lattice of $\hat{\pi}^{\omega_1}$ classes. Journal of Symbolic Logic, 2001, 66, 1749-1765. | 0.5 | 5 |
| 72 | Superhighness. Notre Dame Journal of Formal Logic, 2009, 50, . | 0.4 | 5 |

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|----|--|-----|-----------|
| 73 | Borel structures and Borel theories. <i>Journal of Symbolic Logic</i> , 2011, 76, 461-476. | 0.5 | 5 |
| 74 | Upper bounds on ideals in the computably enumerable Turing degrees. <i>Annals of Pure and Applied Logic</i> , 2011, 162, 465-473. | 0.5 | 5 |
| 75 | Computably enumerable sets below random sets. <i>Annals of Pure and Applied Logic</i> , 2012, 163, 1596-1610. | 0.5 | 5 |
| 76 | DEMUTH'S PATH TO RANDOMNESS. <i>Bulletin of Symbolic Logic</i> , 2015, 21, 270-305. | 0.2 | 5 |
| 77 | Feasible Analysis, Randomness, and Base Invariance. <i>Theory of Computing Systems</i> , 2015, 56, 439-464. | 1.1 | 5 |
| 78 | Describing finite groups by short first-order sentences. <i>Israel Journal of Mathematics</i> , 2017, 221, 85-115. | 0.8 | 5 |
| 79 | Local Compactness for Computable Polish Metric Spaces is \varPi^1_1 -complete. <i>Lecture Notes in Computer Science</i> , 2015, , 286-290. | 1.3 | 5 |
| 80 | ELIMINATING CONCEPTS. <i>Lecture Notes Series, Institute for Mathematical Sciences</i> , 2008, , 225-247. | 0.2 | 5 |
| 81 | Interactions of Computability and Randomness. , 2011, , . | | 5 |
| 82 | Cappable recursively enumerable degrees and Post's program. <i>Archive for Mathematical Logic</i> , 1992, 32, 51-56. | 0.3 | 4 |
| 83 | Recursively Enumerable Equivalence Relations Modulo Finite Differences. <i>Mathematical Logic Quarterly</i> , 1994, 40, 490-518. | 0.2 | 4 |
| 84 | Atomless r -maximal sets. <i>Israel Journal of Mathematics</i> , 1999, 113, 305-322. | 0.8 | 4 |
| 85 | Branching in the enumeration degrees of the $\hat{\Sigma}^0_2$ sets. <i>Israel Journal of Mathematics</i> , 1999, 110, 29-59. | 0.8 | 4 |
| 86 | Martin-Löf random quantum states. <i>Journal of Mathematical Physics</i> , 2019, 60, 092201. | 1.1 | 4 |
| 87 | Counting the Changes of Random $\{\Delta^0_2\}$ Sets. <i>Lecture Notes in Computer Science</i> , 2010, , 162-171. | 1.3 | 4 |
| 88 | Demuth's Path to Randomness. <i>Lecture Notes in Computer Science</i> , 2012, , 159-173. | 1.3 | 4 |
| 89 | Universal Recursively Enumerable Sets of Strings. <i>Lecture Notes in Computer Science</i> , 0, , 170-182. | 1.3 | 4 |
| 90 | Undecidability Results for Low Complexity Time Classes. <i>Journal of Computer and System Sciences</i> , 2000, 60, 465-479. | 1.2 | 3 |

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|-----|--|-----|-----------|
| 91 | Differences of Computably Enumerable Sets. <i>Mathematical Logic Quarterly</i> , 2000, 46, 555-561. | 0.2 | 3 |
| 92 | On the filter of computably enumerable supersets of an r -maximal set. <i>Archive for Mathematical Logic</i> , 2001, 40, 415-423. | 0.3 | 3 |
| 93 | Global properties of the lattice of Π^0_1 classes. <i>Proceedings of the American Mathematical Society</i> , 2003, 132, 239-249. | 0.8 | 3 |
| 94 | Lowness Properties and Approximations of the Jump. <i>Electronic Notes in Theoretical Computer Science</i> , 2006, 143, 45-57. | 0.9 | 3 |
| 95 | Borel structures: a brief survey. , 0, , 124-134. | | 3 |
| 96 | CHARACTERIZING LOWNESS FOR DEMUTH RANDOMNESS. <i>Journal of Symbolic Logic</i> , 2014, 79, 526-560. | 0.5 | 3 |
| 97 | Calculus of Cost Functions. <i>Theory and Applications of Computability</i> , 2017, , 183-216. | 1.3 | 3 |
| 98 | The reverse mathematics of theorems of Jordan and Lebesgue. <i>Journal of Symbolic Logic</i> , 0, , 1-18. | 0.5 | 3 |
| 99 | A Weakly 2-Random Set That Is Not Generalized Low. <i>Lecture Notes in Computer Science</i> , 2007, , 474-477. | 1.3 | 3 |
| 100 | Effectively closed subgroups of the infinite symmetric group. <i>Proceedings of the American Mathematical Society</i> , 2018, 146, 5421-5435. | 0.8 | 3 |
| 101 | A LOWER CONE IN THE wtt DEGREES OF NON-INTEGRAL EFFECTIVE DIMENSION. <i>Lecture Notes Series, Institute for Mathematical Sciences</i> , 2008, , 249-260. | 0.2 | 3 |
| 102 | Studying Randomness Through Computation. , 2011, , 207-222. | | 3 |
| 103 | Undecidability results for low complexity degree structures. , 0, , . | | 2 |
| 104 | Interpreting N in the computably enumerable weak truth table degrees. <i>Annals of Pure and Applied Logic</i> , 2001, 107, 35-48. | 0.5 | 2 |
| 105 | Superhighness and Strong Jump Traceability. <i>Lecture Notes in Computer Science</i> , 2009, , 726-737. | 1.3 | 2 |
| 106 | Trivial Reals. <i>Electronic Notes in Theoretical Computer Science</i> , 2002, 66, 36-52. | 0.9 | 1 |
| 107 | Joining non-low C.E. sets with diagonally non-computable functions. <i>Journal of Logic and Computation</i> , 2013, 23, 1183-1194. | 0.8 | 1 |
| 108 | Calibrating the complexity of Δ^0_2 sets via their changes. , 2013, , . | | 1 |

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|-----|--|-----|-----------|
| 109 | Universality for left-computably enumerable metric spaces. Lobachevskii Journal of Mathematics, 2014, 35, 292-294. | 0.9 | 1 |
| 110 | Computing from projections of random points. Journal of Mathematical Logic, 2020, 20, 1950014. | 0.6 | 1 |
| 111 | Finite axiomatizability for profinite groups. Proceedings of the London Mathematical Society, 0, , . | 1.3 | 1 |
| 112 | FRAÏSSÉ% LIMITS FOR RELATIONAL METRIC STRUCTURES. Journal of Symbolic Logic, 0, , 1-22. | 0.5 | 1 |
| 113 | Lowness, Randomness, and Computable Analysis. Lecture Notes in Computer Science, 2017, , 738-754. | 1.3 | 1 |
| 114 | The First Order Theories of the Medvedev and Muchnik Lattices. Lecture Notes in Computer Science, 2009, , 324-331. | 1.3 | 1 |
| 115 | Randomness and Solovay degrees. Journal of Logic and Analysis, 0, , 1-13. | 0.5 | 1 |
| 116 | Kolmogorov-Loveland Randomness and Stochasticity. Lecture Notes in Computer Science, 2005, , 422-433. | 1.3 | 0 |
| 117 | Low upper bounds in the Turing degrees revisited. Journal of Logic and Computation, 2012, 22, 693-699. | 0.8 | 0 |
| 118 | The Complexity of Recursive Splittings of Random Sets. Computability, 2014, 3, 1-8. | 0.3 | 0 |
| 119 | RANDOMNESS NOTIONS AND REVERSE MATHEMATICS. Journal of Symbolic Logic, 2020, 85, 271-299. | 0.5 | 0 |
| 120 | MUCHNIK DEGREES AND CARDINAL CHARACTERISTICS. Journal of Symbolic Logic, 2021, 86, 471-498. | 0.5 | 0 |
| 121 | Lightface $\mathop{\mathrm{varPi}}\limits_{\{3\}^0}$ -Completeness of Density Sets Under Effective Wadge Reducibility. Lecture Notes in Computer Science, 2016, , 234-239. | 1.3 | 0 |
| 122 | A Computational Approach to the Borwein-Ditor Theorem. Lecture Notes in Computer Science, 2016, , 99-104. | 1.3 | 0 |
| 123 | From Eventually Different Functions to Pandemic Numberings. Lecture Notes in Computer Science, 2018, , 97-106. | 1.3 | 0 |
| 124 | Martin-Löf Randomness Implies Multiple Recurrence in Effectively Closed Sets. Notre Dame Journal of Formal Logic, 2019, 60, . | 0.4 | 0 |
| 125 | Randomness and initial segment complexity for measures. Theoretical Computer Science, 2021, 900, 1-1. | 0.9 | 0 |