

# Vladimir Kanovei

## List of Publications by Year in descending order

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126  
papers

856  
citations

567281

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132  
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docs citations

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times ranked

146  
citing authors

#	ARTICLE	IF	CITATIONS
1	Proofs and Retributions, Or: Why Sarah Can't Take Limits. <i>Foundations of Science</i> , 2015, 20, 1-25.	0.7	46
2	Undecidable hypotheses in Edward Nelson's internal set theory. <i>Russian Mathematical Surveys</i> , 1991, 46, 1-54.	0.6	33
3	A definable nonstandard model of the reals. <i>Journal of Symbolic Logic</i> , 2004, 69, 159-164.	0.5	30
4	Fermat, Leibniz, Euler, and the Gang: The True History of the Concepts of Limit and Shadow. <i>Notices of the American Mathematical Society</i> , 2014, 61, 848.	0.2	27
5	Internal approach to external sets and universes. <i>Studia Logica</i> , 1995, 55, 229-257.	0.6	21
6	An Ulm-type classification theorem for equivalence relations in Solovay model. <i>Journal of Symbolic Logic</i> , 1997, 62, 1333-1351.	0.5	21
7	Tools, Objects, and Chimeras: Connes on the Role of Hyperreals in Mathematics. <i>Foundations of Science</i> , 2013, 18, 259-296.	0.7	21
8	On non-wellfounded iterations of the perfect set forcing. <i>Journal of Symbolic Logic</i> , 1999, 64, 551-574.	0.5	19
9	A definable $E_0$ class containing no definable elements. <i>Archive for Mathematical Logic</i> , 2015, 54, 711-723.	0.3	18
10	Interpreting the Infinitesimal Mathematics of Leibniz and Euler. <i>Journal for General Philosophy of Science</i> , 2017, 48, 195-238.	1.4	18
11	Definable $\aleph_1$ -uniformization and $\aleph_1$ -classes at arbitrary projective levels. <i>Annals of Pure and Applied Logic</i> , 2018, 169, 851-871.	0.5	17
12	A model of second-order arithmetic satisfying AC but not DC. <i>Journal of Mathematical Logic</i> , 2019, 19, 1850013.	0.6	17
13	Non-Glimm-Effros equivalence relations at second projective level. <i>Fundamenta Mathematicae</i> , 1997, 154, 1-35.	0.5	16
14	On some classical problems of descriptive set theory. <i>Russian Mathematical Surveys</i> , 2003, 58, 839-927.	0.6	15
15	Counterexamples to countable-section uniformization and $\aleph_1$ -uniformization and $\aleph_2$ -classes at arbitrary projective levels. <i>Annals of Pure and Applied Logic</i> , 2016, 167, 262-283.	0.5	15
16	A Groszek-Laver pair of undistinguishable classes. <i>Mathematical Logic Quarterly</i> , 2017, 63, 19-31.	0.2	15
17	Internal approach to external sets and universes. <i>Studia Logica</i> , 1995, 55, 347-376.	0.6	13
18	Leibniz versus Ishiguro: Closing a Quarter Century of Syncategoremania. <i>Hopos</i> , 2016, 6, 117-147.	0.2	13

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19	A countable definable set containing no definable elements. <i>Mathematical Notes</i> , 2017, 102, 338-349.	0.4	12
20	Toward a History of Mathematics Focused on Procedures. <i>Foundations of Science</i> , 2017, 22, 763-783.	0.7	12
21	DEFINABLE MINIMAL COLLAPSE FUNCTIONS AT ARBITRARY PROJECTIVE LEVELS. <i>Journal of Symbolic Logic</i> , 2019, 84, 266-289.	0.5	12
22	Non-uniformizable sets with countable cross-sections on a given level of the projective hierarchy. <i>Fundamenta Mathematicae</i> , 2019, 245, 175-215.	0.5	12
23	When a partial Borel order is linearizable. <i>Fundamenta Mathematicae</i> , 1998, 155, 301-309.	0.5	11
24	Internal approach to external sets and universes. <i>Studia Logica</i> , 1996, 56, 293-322.	0.6	10
25	ON THE NONEMPTINESS OF CLASSES IN AXIOMATIC SET THEORY. <i>Mathematics of the USSR Izvestija</i> , 1978, 12, 507-535.	0.2	9
26	The development of the descriptive theory of sets under the influence of the work of Luzin. <i>Russian Mathematical Surveys</i> , 1985, 40, 135-180.	0.6	9
27	Non-uniformizable sets of second projective level with countable cross-sections in the form of Vitali classes. <i>Izvestiya Mathematics</i> , 2018, 82, 61-90.	0.6	9
28	The correctness of Euler's method for the factorization of the sine function into an infinite product. <i>Russian Mathematical Surveys</i> , 1988, 43, 65-94.	0.6	8
29	Countable OD sets of reals belong to the ground model. <i>Archive for Mathematical Logic</i> , 2018, 57, 285-298.	0.3	8
30	The full basis theorem does not imply analytic wellordering. <i>Annals of Pure and Applied Logic</i> , 2021, 172, 102929.	0.5	8
31	An unpublished theorem of Solovay on OD partitions of reals into two non-OD parts, revisited. <i>Journal of Mathematical Logic</i> , 0, , 2150014.	0.6	8
32	New Radonâ€™Nikodym ideals. <i>Mathematika</i> , 2000, 47, 219-227.	0.5	7
33	On mathematical realism and applicability of hyperreals. <i>Matematychni Studii</i> , 2019, 51, .	0.4	7
34	Kolmogorov's ideas in the theory of operations on sets. <i>Russian Mathematical Surveys</i> , 1988, 43, 111-155.	0.6	6
35	Isomorphism property in nonstandard extensions of theZFC universe. <i>Annals of Pure and Applied Logic</i> , 1997, 88, 1-25.	0.5	6
36	Eulerâ€™s Lute and Edwardsâ€™s Oud. <i>Mathematical Intelligencer</i> , 2015, 37, 48-51.	0.2	6

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37	A Non-Standard Analysis of a Cultural Icon: The Case of Paul Halmos. <i>Logica Universalis</i> , 2016, 10, 393-405.	0.2	6
38	Controversies in the Foundations of Analysis: Comments on Schubring's Conflicts. <i>Foundations of Science</i> , 2017, 22, 125-140.	0.7	6
39	Gregory's Sixth Operation. <i>Foundations of Science</i> , 2018, 23, 133-144.	0.7	6
40	On the $\aleph_1$ Problem of Harvey Friedman. <i>Mathematics</i> , 2020, 8, 1477.	2.2	6
41	On the $\aleph_1$ -Definability of Definable Problem of Alfred Tarski. <i>Mathematics</i> , 2020, 8, 2214.	2.2	6
42	Models of Set Theory in which Nonconstructible Reals First Appear at a Given Projective Level. <i>Mathematics</i> , 2020, 8, 910.	2.2	6
43	What Makes a Theory of Infinitesimals Useful? A View by Klein and Fraenkel. <i>Journal of Humanistic Mathematics</i> , 2018, 8, 108-119.	0.1	6
44	THE SET OF ALL ANALYTICALLY DEFINABLE SETS OF NATURAL NUMBERS CAN BE DEFINED ANALYTICALLY. <i>Mathematics of the USSR Izvestija</i> , 1980, 15, 469-500.	0.2	5
45	Ulm Classification of Analytic Equivalence Relations in Generic Universes. <i>Mathematical Logic Quarterly</i> , 1998, 44, 287-303.	0.2	5
46	Borel and Countably Determined Reducibility in Nonstandard Domain. <i>Monatshefte Fur Mathematik</i> , 2003, 140, 197-231.	0.9	5
47	On coding uncountable sets by reals. <i>Mathematical Logic Quarterly</i> , 2010, 56, 409-424.	0.2	5
48	Continuity between Cauchy and Bolzano: issues of antecedents and priority. <i>British Journal for the History of Mathematics</i> , 2020, 35, 207-224.	0.2	5
49	Cauchy, infinitesimals and ghosts of departed quantifiers. <i>Matematychni Studii</i> , 2017, 47, .	0.4	5
50	Two dichotomy theorems on colourability of non-analytic graphs. <i>Fundamenta Mathematicae</i> , 1997, 154, 183-201.	0.5	5
51	Cardinality of the set of Vitali equivalence classes. <i>Mathematical Notes</i> , 1991, 49, 370-374.	0.4	4
52	Extending Standard Models of ZFC to Models of Nonstandard Set Theories. <i>Studia Logica</i> , 2000, 64, 37-59.	0.6	4
53	Do stronger definitions of randomness exist?. <i>Theoretical Computer Science</i> , 2003, 290, 1987-1996.	0.9	4
54	Some new results on Borel irreducibility of equivalence relations. <i>Izvestiya Mathematics</i> , 2003, 67, 55-76.	0.6	4

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55	Problems of set-theoretic non-standard analysis. Russian Mathematical Surveys, 2007, 62, 45-111.	0.6	4
56	An effective minimal encoding of uncountable sets. Siberian Mathematical Journal, 2011, 52, 854-863.	0.6	4
57	Generalization of one construction by Solovay. Siberian Mathematical Journal, 2015, 56, 1072-1079.	0.6	4
58	Small oscillations of the pendulum, Euler's method, and adequacy. Quantum Studies: Mathematics and Foundations, 2016, 3, 231-236.	0.9	4
59	MINIMAL AXIOMATIC FRAMEWORKS FOR DEFINABLE HYPERREALS WITH TRANSFER. Journal of Symbolic Logic, 2018, 83, 385-391.	0.5	4
60	Cauchy's Infinitesimals, His Sum Theorem, and Foundational Paradigms. Foundations of Science, 2018, 23, 267-296.	0.7	4
61	A Model in Which the Separation Principle Holds for a Given Effective Projective Sigma-Class. Axioms, 2022, 11, 122.	1.9	4
62	UNDECIDABLE AND DECIDABLE PROPERTIES OF CONSTITUENTS. Sbornik: Mathematics, 1985, 52, 491-519.	0.2	3
63	The axiom of determinacy and the modern development of descriptive set theory. Journal of Soviet Mathematics, 1988, 40, 257-287.	0.0	3
64	On Baire Measurable Homomorphisms of Quotients of the Additive Group of the Reals. Mathematical Logic Quarterly, 2000, 46, 377-384.	0.2	3
65	A nonstandard set theory in the $\mathcal{L}$ -language. Archive for Mathematical Logic, 2000, 39, 403-416.	0.3	3
66	On Borel orderable groups. Topology and Its Applications, 2001, 109, 285-299.	0.4	3
67	An infinity which depends on the axiom of choice. Applied Mathematics and Computation, 2012, 218, 8196-8202.	2.2	3
68	On effective $\aleph_1$ -boundedness and $\aleph_1$ -compactness. Mathematical Logic Quarterly, 2013, 59, 147-166.	0.2	3
69	Crossed approach to Hutton and Euler transforms. Applied Mathematics and Computation, 2015, 255, 36-43.	2.2	3
70	A Generic Property of the Solovay Set $\mathcal{N}$ . Siberian Mathematical Journal, 2017, 58, 1012-1014.	0.6	3
71	Problem of the existence of nonBorel $\mathcal{A}F$ -sets. Mathematical Notes, 1985, 37, 156-161.	0.4	2
72	Loeb Measure from the Point of View of a Coin Flipping Game. Mathematical Logic Quarterly, 1996, 42, 19-26.	0.2	2

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73	Topologies generated by effectively Suslin sets, and their applications in descriptive set theory. Russian Mathematical Surveys, 1996, 51, 385-417.	0.6	2
74	Elementary Extensions of External Classes in a Nonstandard Universe. Studia Logica, 1998, 60, 253-273.	0.6	2
75	Linearization of definable order relations. Annals of Pure and Applied Logic, 2000, 102, 69-100.	0.5	2
76	A theorem on ROD-hypersmooth equivalence relations in the Solovay model. Mathematical Logic Quarterly, 2003, 49, 299-304.	0.2	2
77	Some natural equivalence relations in the Solovay model. Abhandlungen Aus Dem Mathematischen Seminar Der Universitat Hamburg, 2008, 78, 91-98.	0.2	2
78	On Hausdorff ordered structures. Izvestiya Mathematics, 2009, 73, 939-958.	0.6	2
79	Borel OD sets of reals are OD-Borel in some simple models. Proceedings of the American Mathematical Society, 2018, 147, 1277-1282.	0.8	2
80	On the Equality Relation Modulo a Countable Set. Mathematical Notes, 2020, 108, 615-616.	0.4	2
81	On Effectively Indiscernible Projective Sets and the Leibniz-Mycielski Axiom. Mathematics, 2021, 9, 1670.	2.2	2
82	A Generic Model in Which the Russell-Nontypical Sets Satisfy ZFC Strictly between HOD and the Universe. Mathematics, 2022, 10, 491.	2.2	2
83	On initial segments of degrees of constructibility. Mathematical Notes, 1975, 17, 563-567.	0.4	1
84	Theory of zermelo without power set axiom and the theory of Zermelo-Frenkel without power set axiom are relatively consistent. Mathematical Notes, 1981, 30, 695-702.	0.4	1
85	N. N. Luzin's problems on imbeddability and decomposability of projective sets. Mathematical Notes, 1982, 32, 490-499.	0.4	1
86	Structure of constituents of $\aleph_1$ -sets. Siberian Mathematical Journal, 1983, 24, 198-215.	0.6	1
87	N. N. Luzin's problems on the existence of CA-sets without perfect subsets. Mathematical Notes, 1987, 41, 422-426.	0.4	1
88	Lebesgue measure and gambling. Sbornik Mathematics, 2008, 199, 1597-1619.	0.6	1
89	Effective compactness and sigma-compactness. Mathematical Notes, 2012, 91, 789-799.	0.4	1
90	On effective $\aleph_1$ -boundedness and $\aleph_1$ -compactness in Solovay's model. Mathematical Notes, 2015, 98, 273-282.	0.4	1

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91	Is Leibnizian Calculus Embeddable in First Order Logic?. Foundations of Science, 2017, 22, 717-731.	0.7	1
92	Definable Elements of Definable Borel Sets. Mathematical Notes, 2019, 105, 684-693.	0.4	1
93	Definable Hamel bases and $\{\text{sf AC}\}_\omega(\mathbb{R})$ . Fundamenta Mathematicae, 2021, 253, 239-256.	0.5	1
94	Cauchy's Work on Integral Geometry, Centers of Curvature, and Other Applications of Infinitesimals. Real Analysis Exchange, 2020, 45, 127.	0.1	1
95	Singular cardinals. Mathematical Notes, 1973, 13, 429-433.	0.4	0
96	Proof of a theorem of Lusin. Mathematical Notes, 1978, 23, 35-37.	0.4	0
97	A consequence of the Martin axiom. Mathematical Notes, 1979, 26, 549-553.	0.4	0
98	An answer to Luzin's question about the separability of Ca-curves. Mathematical Notes, 1983, 33, 223-224.	0.4	0
99	Generalization of P.S. Novikov's theorem on cross sections of Borel sets. Mathematical Notes, 1983, 33, 144-146.	0.4	0
100	On the extension principle in internal set theory. Siberian Mathematical Journal, 1992, 33, 999-1010.	0.6	0
101	On external Scott algebras in nonstandard models of Peano arithmetic. Journal of Symbolic Logic, 1996, 61, 586-607.	0.5	0
102	On a Spector Ultrapower for the Solovay Model. Mathematical Logic Quarterly, 1997, 43, 389-395.	0.2	0
103	Special Model Axiom in Nonstandard Set Theory. Mathematical Logic Quarterly, 1999, 45, 371-384.	0.2	0
104	A version of the Jensen-JohnsbrÅten coding at arbitrary level $n \geq 3$ . Archive for Mathematical Logic, 2001, 40, 615-628.	0.3	0
105	Perfect subsets of invariant CA-sets. Mathematical Notes, 2005, 77, 307-310.	0.4	0
106	A confinal family of equivalence relations and Borel ideals generating them. Proceedings of the Steklov Institute of Mathematics, 2006, 252, 85-103.	0.3	0
107	Reducibility of monadic equivalence relations. Mathematical Notes, 2007, 81, 757-766.	0.4	0
108	Borel reducibility as an additive property of domains. Journal of Mathematical Sciences, 2009, 158, 708-712.	0.4	0

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109	Reasonable non-Radonâ€™Nikodym ideals. <i>Topology and Its Applications</i> , 2009, 156, 911-914.	0.4	0
110	A weak dichotomy below $\aleph_1$ . <i>Topology and Its Applications</i> , 2010, 157, 1465-1478.	0.4	0
111	Background facts. , 0, , 14-44.		0
112	Analytic equivalence relations and models of set theory. , 0, , 45-61.		0
113	Classes of equivalence relations. , 0, , 62-79.		0
114	Games and the Silver property. , 0, , 80-99.		0
115	The game ideals. , 0, , 100-146.		0
116	Benchmark equivalence relations. , 0, , 147-186.		0
117	Ramsey-type ideals. , 0, , 187-217.		0
118	Product-type ideals. , 0, , 218-243.		0
119	The countable support iteration ideals. , 0, , 244-263.		0
120	Monotone subsequence via ultrapower. <i>Open Mathematics</i> , 2018, 16, 149-153.	1.0	0
121	Absoluteness of the Solovay Set $\mathfrak{S}$ . <i>Siberian Mathematical Journal</i> , 2019, 60, 1003-1006.	0.6	0
122	Factoring Solovay-random extensions, with application to the reduction property. <i>Monatshefte Fur Mathematik</i> , 2021, 194, 105-117.	0.9	0
123	EFFECTIVE CARDINALS IN THE NONSTANDARD UNIVERSE. , 2006, , .		0
124	On countable cofinality and decomposition of definable thin orderings. <i>Fundamenta Mathematicae</i> , 0, , 1-24.	0.5	0
125	Canonization of Smooth Equivalence Relations on Infinite-Dimensional $E_0$ -Large Products. <i>Notre Dame Journal of Formal Logic</i> , 2020, 61, .	0.4	0
126	Metric completions, the Heine-Borel property, and approachability. <i>Open Mathematics</i> , 2020, 18, 162-166.	1.0	0