

Anand Pillay

List of Publications by Year in descending order

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128
papers

2,325
citations

279798

23
h-index

276875

41
g-index

130
all docs

130
docs citations

130
times ranked

201
citing authors

#	ARTICLE	IF	CITATIONS
1	Definable sets in ordered structures. I. Transactions of the American Mathematical Society, 1986, 295, 565-592.	0.9	218
2	On groups and fields definable in o-minimal structures. Journal of Pure and Applied Algebra, 1988, 53, 239-255.	0.6	146
3	Definable sets in ordered structures. II. Transactions of the American Mathematical Society, 1986, 295, 593-605.	0.9	121
4	Groups, measures, and the NIP. Journal of the American Mathematical Society, 2007, 21, 563-597.	3.9	121
5	Simple theories. Annals of Pure and Applied Logic, 1997, 88, 149-164.	0.5	118
6	Groups definable in local fields and pseudo-finite fields. Israel Journal of Mathematics, 1994, 85, 203-262.	0.8	89
7	On NIP and invariant measures. Journal of the European Mathematical Society, 2011, 13, 1005-1061.	1.4	83
8	TYPE-DEFINABILITY, COMPACT LIE GROUPS, AND o-MINIMALITY. Journal of Mathematical Logic, 2004, 04, 147-162.	0.6	52
9	A Note on the Axioms for Differentially Closed Fields of Characteristic Zero. Journal of Algebra, 1998, 204, 108-115.	0.7	42
10	Jet spaces of varieties over differential and difference fields. Selecta Mathematica, New Series, 2003, 9, 579-599.	1.0	39
11	Lovely pairs of models. Annals of Pure and Applied Logic, 2003, 122, 235-261.	0.5	39
12	Definable sets in ordered structures. Bulletin of the American Mathematical Society, 1984, 11, 159-162.	1.5	37
13	Coordinatisation and canonical bases in simple theories. Journal of Symbolic Logic, 2000, 65, 293-309.	0.5	37
14	Definable sets in ordered structures. III. Transactions of the American Mathematical Society, 1988, 309, 469-476.	0.9	36
15	A descending chain condition for groups definable in $\langle \text{mml:math altimg="si1.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tbl="http://www.elsevier.com/xml/common/table/dtd" xmlns:tbl_struct="http://www.elsevier.com/xml/common/table-struct/dtd" \rangle$	0.5	34
16	On Groups and Rings Definable In O-Minimal Expansions of Real Closed Fields. Bulletin of the London Mathematical Society, 1996, 28, 7-14.	0.8	32
17	Connected components of definable groups and $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" display="inline" overflow="scroll" \rangle \langle \text{mml:mi} \rangle \text{o} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -minimality I. Advances in Mathematics, 2012, 231, 605-623.	1.1	32
18	Simple algebraic and semialgebraic groups over real closed fields. Transactions of the American Mathematical Society, 2000, 352, 4421-4450.	0.9	29

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19	Countable models of stable theories. Proceedings of the American Mathematical Society, 1983, 89, 666-666.	0.8	28
20	Supersimple theories. Journal of the American Mathematical Society, 2001, 14, 109-124.	3.9	27
21	Generic sets in definably compact groups. Fundamenta Mathematicae, 2007, 193, 153-170.	0.5	27
22	Definability and definable groups in simple theories. Journal of Symbolic Logic, 1998, 63, 788-796.	0.5	25
23	Some foundational questions concerning differential algebraic groups. Pacific Journal of Mathematics, 1997, 179, 179-200.	0.5	25
24	Generically stable and smooth measures in NIP theories. Transactions of the American Mathematical Society, 2012, 365, 2341-2366.	0.9	24
25	The Prospects for Mathematical Logic in the Twenty-First Century. Bulletin of Symbolic Logic, 2001, 7, 169-196.	0.2	22
26	On central extensions and definably compact groups in o-minimal structures. Journal of Algebra, 2011, 327, 71-106.	0.7	22
27	Superrosy dependent groups having finitely satisfiable generics. Annals of Pure and Applied Logic, 2008, 151, 1-21.	0.5	21
28	Additive reducts of real closed fields. Journal of Symbolic Logic, 1992, 57, 109-117.	0.5	20
29	On Theories Having Three Countable Models. Mathematical Logic Quarterly, 1998, 44, 161-166.	0.2	20
30	Some remarks on definable equivalence relations in O-minimal structures. Journal of Symbolic Logic, 1986, 51, 709-714.	0.5	19
31	First order topological structures and theories. Journal of Symbolic Logic, 1987, 52, 763-778.	0.5	19
32	Corps et chirurgie. Journal of Symbolic Logic, 1995, 60, 528-533.	0.5	19
33	From Stability to Simplicity. Bulletin of Symbolic Logic, 1998, 4, 17-36.	0.2	19
34	An application of model theory to real and p-adic algebraic groups. Journal of Algebra, 1989, 126, 139-146.	0.7	18
35	Differential Galois theory I. Illinois Journal of Mathematics, 1998, 42, .	0.1	18
36	Algebraic D-groups and differential Galois theory. Pacific Journal of Mathematics, 2004, 216, 343-360.	0.5	18

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37	The geometry of forking and groups of finite Morley rank. <i>Journal of Symbolic Logic</i> , 1995, 60, 1251-1259.	0.5	17
38	On compactifications and the topological dynamics of definable groups. <i>Annals of Pure and Applied Logic</i> , 2014, 165, 552-562.	0.5	17
39	On algebraic relations between solutions of a generic Painlevé equation. <i>Journal Fur Die Reine Und Angewandte Mathematik</i> , 2017, 2017, 1-27.	0.9	17
40	Closed sets and chain conditions in stable theories. <i>Journal of Symbolic Logic</i> , 1984, 49, 1350-1362.	0.5	16
41	Some model theory of compact Lie groups. <i>Transactions of the American Mathematical Society</i> , 1991, 326, 453-463.	0.9	16
42	Effective bounds for the number of transcendental points on subvarieties of semi-abelian varieties. <i>American Journal of Mathematics</i> , 2000, 122, 439-450.	1.1	16
43	Discrete o-minimal structures. <i>Annals of Pure and Applied Logic</i> , 1987, 34, 275-289.	0.5	15
44	Stable theories, pseudoplanes and the number of countable models. <i>Annals of Pure and Applied Logic</i> , 1989, 43, 147-160.	0.5	15
45	Primitive Permutation Groups of Finite Morley Rank. <i>Proceedings of the London Mathematical Society</i> , 1995, s3-70, 481-504.	1.3	15
46	A note on CM-triviality and the geometry of forking. <i>Journal of Symbolic Logic</i> , 2000, 65, 474-480.	0.5	15
47	On fields definable in \mathbb{Q}^p . <i>Archive for Mathematical Logic</i> , 1989, 29, 1-7.	0.3	13
48	The definable multiplicity property and generic automorphisms. <i>Annals of Pure and Applied Logic</i> , 2000, 106, 263-273.	0.5	13
49	SOME DEFINABLE GALOIS THEORY AND EXAMPLES. <i>Bulletin of Symbolic Logic</i> , 2017, 23, 145-159.	0.2	13
50	Meromorphic groups. <i>Transactions of the American Mathematical Society</i> , 2003, 355, 3843-3859.	0.9	13
51	On canonical bases and internality criteria. <i>Illinois Journal of Mathematics</i> , 2008, 52, .	0.1	13
52	First Order Topological Structures and Theories. <i>Journal of Symbolic Logic</i> , 1987, 52, 763.	0.5	12
53	A group in a group. <i>Algebra and Logic</i> , 1990, 29, 244-252.	0.3	12
54	On PAC and bounded substructures of a stable structure. <i>Journal of Symbolic Logic</i> , 2006, 71, 460-472.	0.5	12

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55	FORKING IN THE FREE GROUP. <i>Journal of the Institute of Mathematics of Jussieu</i> , 2008, 7, .	0.7	12
56	Forking, normalization and canonical bases. <i>Annals of Pure and Applied Logic</i> , 1986, 32, 61-81.	0.5	11
57	Definability of types, and pairs of O-minimal structures. <i>Journal of Symbolic Logic</i> , 1994, 59, 1400-1409.	0.5	11
58	On Lascar rank and Morley rank of definable groups in differentially closed fields. <i>Journal of Symbolic Logic</i> , 2002, 67, 1189-1196.	0.5	11
59	Topological dynamics and definable groups. <i>Journal of Symbolic Logic</i> , 2013, 78, 657-666.	0.5	11
60	External definability and groups in NIP theories. <i>Journal of the London Mathematical Society</i> , 2014, 90, 213-240.	1.0	11
61	Stable theories without dense forking chains. <i>Archive for Mathematical Logic</i> , 1992, 31, 297-303.	0.3	10
62	Differential Galois theory II. <i>Annals of Pure and Applied Logic</i> , 1997, 88, 181-191.	0.5	10
63	Mordell–Lang conjecture for function fields in characteristic zero, revisited. <i>Compositio Mathematica</i> , 2004, 140, 64-68.	0.8	10
64	Generalised Bohr compactification and model-theoretic connected components. <i>Mathematical Proceedings of the Cambridge Philosophical Society</i> , 2017, 163, 219-249.	0.4	10
65	Topological dynamics and the complexity of strong types. <i>Israel Journal of Mathematics</i> , 2018, 228, 863-932.	0.8	10
66	Sheaves of continuous definable functions. <i>Journal of Symbolic Logic</i> , 1988, 53, 1165-1169.	0.5	9
67	On algebraic σ -groups. <i>Transactions of the American Mathematical Society</i> , 2006, 359, 1325-1337.	0.9	9
68	AFFINE NASH GROUPS OVER REAL CLOSED FIELDS. <i>Confluentes Mathematici</i> , 2011, 03, 577-585.	0.2	9
69	On the algebraic independence of generic Painlevé transcendents. <i>Compositio Mathematica</i> , 2014, 150, 668-678.	0.8	9
70	Amenability, definable groups, and automorphism groups. <i>Advances in Mathematics</i> , 2019, 345, 1253-1299.	1.1	9
71	BOREL EQUIVALENCE RELATIONS AND LASCAR STRONG TYPES. <i>Journal of Mathematical Logic</i> , 2013, 13, 1350008.	0.6	8
72	On minimal flows, definably amenable groups, and o-minimality. <i>Advances in Mathematics</i> , 2016, 290, 483-502.	1.1	8

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73	Pas d'imaginaires dans l'infini!. <i>Journal of Symbolic Logic</i> , 1987, 52, 400-403.	0.5	7
74	Remarks on Galois cohomology and definability. <i>Journal of Symbolic Logic</i> , 1997, 62, 487-492.	0.5	7
75	Differential arcs and regular types in differential fields. <i>Journal Fur Die Reine Und Angewandte Mathematik</i> , 2008, 2008, .	0.9	7
76	On stable fields and weight. <i>Journal of the Institute of Mathematics of Jussieu</i> , 2011, 10, 349-358.	0.7	7
77	Interpretations and Differential Galois Extensions. <i>International Mathematics Research Notices</i> , 2016, 2016, 7390-7413.	1.0	7
78	Theories with exactly three countable models and theories with algebraic prime models. <i>Journal of Symbolic Logic</i> , 1980, 45, 302-310.	0.5	6
79	Differentially algebraic group chunks. <i>Journal of Symbolic Logic</i> , 1990, 55, 1138-1142.	0.5	6
80	The Picardâ€™Vessiot theory, constrained cohomology, and linear differential algebraic groups. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2017, 108, 809-817.	1.6	6
81	On countable simple unidimensional theories. <i>Journal of Symbolic Logic</i> , 2003, 68, 1377-1384.	0.5	5
82	Imaginaries in pairs of algebraically closed fields. <i>Annals of Pure and Applied Logic</i> , 2007, 146, 13-20.	0.5	5
83	Stable embeddedness and $\langle i \rangle$. <i>Journal of Symbolic Logic</i> , 2011, 76, 665-672.	0.5	5
84	On the canonical base property. <i>Selecta Mathematica, New Series</i> , 2013, 19, 865-877.	1.0	5
85	On function field Mordellâ€™Lang and Maninâ€™Mumford. <i>Journal of Mathematical Logic</i> , 2016, 16, 1650001.	0.6	5
86	Remarks on the NIP in a model. <i>Mathematical Logic Quarterly</i> , 2018, 64, 429-434.	0.2	5
87	Superstable groups of finite rank without pseudoplanes. <i>Annals of Pure and Applied Logic</i> , 1986, 30, 95-101.	0.5	4
88	Superstable theories with few countable models. <i>Archive for Mathematical Logic</i> , 1992, 31, 457-465.	0.3	4
89	Forking and fundamental order in simple theories. <i>Journal of Symbolic Logic</i> , 1999, 64, 1155-1158.	0.5	4
90	Compact complex manifolds with the DOP and other properties. <i>Journal of Symbolic Logic</i> , 2002, 67, 737-743.	0.5	4

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109	Unidimensional modules: uniqueness of maximal non-modular submodels. <i>Annals of Pure and Applied Logic</i> , 1993, 62, 175-181.	0.5	1
110	Some remarks on nonmultidimensional superstable theories. <i>Journal of Symbolic Logic</i> , 1994, 59, 151-165.	0.5	1
111	A note on existentially closed difference fields with algebraically closed fixed field. <i>Journal of Symbolic Logic</i> , 2001, 66, 719-721.	0.5	1
112	On types of CB-rank 1 in simple theories. <i>Journal of the Institute of Mathematics of Jussieu</i> , 2008, 7, 895-899.	0.7	1
113	Differentially valued fields are not differentially closed. , 0, , 111-116.		1
114	Model Theory in Algebra, Analysis and Arithmetic. <i>Lecture Notes in Mathematics</i> , 2014, , .	0.2	1
115	Simple groups definable in O-minimal structures. , 0, , 211-218.		1
116	The free group has the dimensional order property. <i>Bulletin of the London Mathematical Society</i> , 2017, 49, 89-94.	0.8	1
117	Pseudofinite groups and VC-dimension. <i>Journal of Mathematical Logic</i> , 2021, 21, 2150009.	0.6	1
118	1 Model theory and groups. , 2021, , 1-50.		1
119	Countable modules. <i>Fundamenta Mathematicae</i> , 1984, 121, 125-132.	0.5	1
120	Saturated free algebras and almost indiscernible theories. <i>Algebra Universalis</i> , 2022, 83, 1.	0.3	1
121	Some results on permutation group isomorphism and categoricity. <i>Journal of Symbolic Logic</i> , 2002, 67, 910-914.	0.5	0
122	On a question of Herzog and Rothmaler. <i>Journal of Symbolic Logic</i> , 2004, 69, 478-481.	0.5	0
123	Corrigendum to: "On Lascar rank and Morley rank of definable groups in differentially closed fields" <i>Journal of Symbolic Logic</i> , 2009, 74, 1436-1437.	0.5	0
124	Model Theory: Around Valued Fields and Dependent Theories. <i>Oberwolfach Reports</i> , 2010, 7, 5-53.	0.0	0
125	Connected components of groups and o-minimal expansions of real closed fields. <i>Electronic Notes in Discrete Mathematics</i> , 2013, 43, 151-153.	0.4	0
126	On function field Mordell–Lang: the semiabelian case and the socle theorem. <i>Proceedings of the London Mathematical Society</i> , 2018, 116, 182-208.	1.3	0

#	ARTICLE	IF	CITATIONS
127	Remarks on Purity of Methods. Notre Dame Journal of Formal Logic, 2021, 62, .	0.4	0
128	Differential Galois cohomology and parameterized Picard-Vessiot extensions. Communications in Contemporary Mathematics, 0, , 2050081.	1.2	0