Alexey Ovchinnikov

List of Publications by Year
in descending order

38 papers	432 citations	759233 12 h-index	794594 19 g-index
39 all docs	39 docs citations	39 times ranked	132 citing authors

#	Article	IF	Citations
1	SIAN: software for structural identifiability analysis of ODE models. Bioinformatics, 2019, 35, 2873-2874.	4.1	64
2	Global Identifiability of Differential Models. Communications on Pure and Applied Mathematics, 2020, 73, 1831-1879.	3.1	37
3	Parameterized Picardâ€"Vessiot extensions and Atiyah extensions. Advances in Mathematics, 2013, 238, 322-411.	1.1	31
4	A bound for orders in differential Nullstellensatz. Journal of Algebra, 2009, 322, 3852-3877.	0.7	29
5	Unipotent differential algebraic groups as parameterized differential Galois groups. Journal of the Institute of Mathematics of Jussieu, 2014, 13, 671-700.	0.7	21
6	Tannakian Approach to Linear Differential Algebraic Groups. Transformation Groups, 2008, 13, 413-446.	0.7	19
7	Tannakian Categories, Linear Differential Algebraic Groups, and Parametrized Linear Differential Equations. Transformation Groups, 2009, 14, 195-223.	0.7	19
8	Reductive Linear Differential Algebraic Groups and the Galois Groups of Parameterized Linear Differential Equations. International Mathematics Research Notices, 2015, 2015, 1733-1793.	1.0	18
9	GEM: scalable and flexible geneâ€"environment interaction analysis in millions of samples. Bioinformatics, 2021, 37, 3514-3520.	4.1	17
10	Zariski closures of reductive linear differential algebraic groups. Advances in Mathematics, 2011, 227, 1195-1224.	1.1	15
11	New effective differential Nullstellensatz. Advances in Mathematics, 2016, 290, 1138-1158.	1.1	15
12	Isomonodromic differential equations and differential categories. Journal Des Mathematiques Pures Et Appliquees, 2014, 102, 48-78.	1.6	14
13	Differential Tannakian categories. Journal of Algebra, 2009, 321, 3043-3062.	0.7	13
14	Computing all identifiable functions of parameters for ODE models. Systems and Control Letters, 2021, 157, 105030.	2.3	12
15	Algebraic transformation of differential characteristic decompositions from one ranking to another. Journal of Symbolic Computation, 2009, 44, 333-357.	0.8	11
16	Parameter identifiability and inputâ€"output equations. Applicable Algebra in Engineering, Communications and Computing, 2023, 34, 165-182.	0.5	11
17	A bound for the Rosenfeldâ€"GrÃ¶bner algorithm. Journal of Symbolic Computation, 2008, 43, 582-610.	0.8	9
18	Extensions of differential representations of SL2 and tori. Journal of the Institute of Mathematics of Jussieu, 2013, 12, 199-224.	0.7	9

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19	On bounds for the effective differential Nullstellensatz. Journal of Algebra, 2016, 449, 1-21.	0.7	9
20	Â-Galois Theory of Linear Difference Equations. International Mathematics Research Notices, 2014, , .	1.0	8
21	Effective difference elimination and Nullstellensatz. Journal of the European Mathematical Society, 2020, 22, 2419-2452.	1.4	8
22	Calculating differential Galois groups of parametrized differential equations, with applications to hypertranscendence. Mathematische Annalen, 2017, 368, 587-632.	1.4	7
23	Difference integrability conditions for parameterized linear difference and differential equations. Advances in Applied Mathematics, 2014, 53, 61-71.	0.7	4
24	Computing constraint sets for differential fields. Journal of Algebra, 2014, 407, 316-357.	0.7	4
25	New order bounds in differential elimination algorithms. Journal of Symbolic Computation, 2018, 85, 128-147.	0.8	4
26	CLUE: exact maximal reduction of kinetic models by constrained lumping of differential equations. Bioinformatics, 2021, 37, 1732-1738.	4.1	4
27	Web-Based Structural Identifiability Analyzer. Lecture Notes in Computer Science, 2021, , 254-265.	1.3	4
28	SIAN. ACM Communications in Computer Algebra, 2019, 53, 37-40.	0.4	3
29	Integrability conditions for parameterized linear difference equations. , 2013, , .		2
30	Galois Theory of Difference Equations with Periodic Parameters. Communications in Algebra, 2014, 42, 3902-3943.	0.6	2
31	Tannakian Categories With Semigroup Actions. Canadian Journal of Mathematics, 2017, 69, 687-720.	0.6	2
32	Triviality of differential Galois cohomology of linear differential algebraic groups. Communications in Algebra, 2019, 47, 5094-5100.	0.6	2
33	Calculating Galois groups of third-order linear differential equations with parameters. Communications in Contemporary Mathematics, 2018, 20, 1750038.	1.2	1
34	Elimination of unknowns for systems of algebraic differential-difference equations. Transactions of the American Mathematical Society, 2021, 374, 303-326.	0.9	1
35	Bounds for Elimination of Unknowns in Systems of Differential-Algebraic Equations. International Mathematics Research Notices, 0, , .	1.0	1
36	Bounds for Orders of Derivatives in Differential Elimination Algorithms. , 2016, , .		0

#	Article	IF	Citations
37	Algorithms yield upper bounds in differential algebra. Canadian Journal of Mathematics, 0, , 1-26.	0.6	0
38	Maple application for structural identifiability analysis of ODE models. ACM Communications in Computer Algebra, 2021, 55, 49-53.	0.4	0