

Alexey Ovchinnikov

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11940638/publications.pdf>

Version: 2024-02-01

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	Parameter identifiability and input–output equations. <i>Applicable Algebra in Engineering, Communications and Computing</i> , 2023, 34, 165-182.	0.5	11
2	Elimination of unknowns for systems of algebraic differential-difference equations. <i>Transactions of the American Mathematical Society</i> , 2021, 374, 303-326.	0.9	1
3	CLUE: exact maximal reduction of kinetic models by constrained lumping of differential equations. <i>Bioinformatics</i> , 2021, 37, 1732-1738.	4.1	4
4	GEM: scalable and flexible gene–environment interaction analysis in millions of samples. <i>Bioinformatics</i> , 2021, 37, 3514-3520.	4.1	17
5	Computing all identifiable functions of parameters for ODE models. <i>Systems and Control Letters</i> , 2021, 157, 105030.	2.3	12
6	Web-Based Structural Identifiability Analyzer. <i>Lecture Notes in Computer Science</i> , 2021, , 254-265.	1.3	4
7	Maple application for structural identifiability analysis of ODE models. <i>ACM Communications in Computer Algebra</i> , 2021, 55, 49-53.	0.4	0
8	Effective difference elimination and Nullstellensatz. <i>Journal of the European Mathematical Society</i> , 2020, 22, 2419-2452.	1.4	8
9	Global Identifiability of Differential Models. <i>Communications on Pure and Applied Mathematics</i> , 2020, 73, 1831-1879.	3.1	37
10	Triviality of differential Galois cohomology of linear differential algebraic groups. <i>Communications in Algebra</i> , 2019, 47, 5094-5100.	0.6	2
11	SIAN: software for structural identifiability analysis of ODE models. <i>Bioinformatics</i> , 2019, 35, 2873-2874.	4.1	64
12	SIAN. <i>ACM Communications in Computer Algebra</i> , 2019, 53, 37-40.	0.4	3
13	New order bounds in differential elimination algorithms. <i>Journal of Symbolic Computation</i> , 2018, 85, 128-147.	0.8	4
14	Calculating Galois groups of third-order linear differential equations with parameters. <i>Communications in Contemporary Mathematics</i> , 2018, 20, 1750038.	1.2	1
15	Calculating differential Galois groups of parametrized differential equations, with applications to hypertranscendence. <i>Mathematische Annalen</i> , 2017, 368, 587-632.	1.4	7
16	Tannakian Categories With Semigroup Actions. <i>Canadian Journal of Mathematics</i> , 2017, 69, 687-720.	0.6	2
17	Bounds for Orders of Derivatives in Differential Elimination Algorithms. , 2016, , .		0
18	On bounds for the effective differential Nullstellensatz. <i>Journal of Algebra</i> , 2016, 449, 1-21.	0.7	9

#	ARTICLE	IF	CITATIONS
19	New effective differential Nullstellensatz. <i>Advances in Mathematics</i> , 2016, 290, 1138-1158.	1.1	15
20	Reductive Linear Differential Algebraic Groups and the Galois Groups of Parameterized Linear Differential Equations. <i>International Mathematics Research Notices</i> , 2015, 2015, 1733-1793.	1.0	18
21	\hat{A} -Galois Theory of Linear Difference Equations. <i>International Mathematics Research Notices</i> , 2014, , .	1.0	8
22	Difference integrability conditions for parameterized linear difference and differential equations. <i>Advances in Applied Mathematics</i> , 2014, 53, 61-71.	0.7	4
23	Galois Theory of Difference Equations with Periodic Parameters. <i>Communications in Algebra</i> , 2014, 42, 3902-3943.	0.6	2
24	Isomonodromic differential equations and differential categories. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2014, 102, 48-78.	1.6	14
25	Computing constraint sets for differential fields. <i>Journal of Algebra</i> , 2014, 407, 316-357.	0.7	4
26	Unipotent differential algebraic groups as parameterized differential Galois groups. <i>Journal of the Institute of Mathematics of Jussieu</i> , 2014, 13, 671-700.	0.7	21
27	Integrability conditions for parameterized linear difference equations. , 2013, , .		2
28	Parameterized Picard-Vessiot extensions and Atiyah extensions. <i>Advances in Mathematics</i> , 2013, 238, 322-411.	1.1	31
29	Extensions of differential representations of SL_2 and tori. <i>Journal of the Institute of Mathematics of Jussieu</i> , 2013, 12, 199-224.	0.7	9
30	Zariski closures of reductive linear differential algebraic groups. <i>Advances in Mathematics</i> , 2011, 227, 1195-1224.	1.1	15
31	Tannakian Categories, Linear Differential Algebraic Groups, and Parametrized Linear Differential Equations. <i>Transformation Groups</i> , 2009, 14, 195-223.	0.7	19
32	Differential Tannakian categories. <i>Journal of Algebra</i> , 2009, 321, 3043-3062.	0.7	13
33	A bound for orders in differential Nullstellensatz. <i>Journal of Algebra</i> , 2009, 322, 3852-3877.	0.7	29
34	Algebraic transformation of differential characteristic decompositions from one ranking to another. <i>Journal of Symbolic Computation</i> , 2009, 44, 333-357.	0.8	11
35	Tannakian Approach to Linear Differential Algebraic Groups. <i>Transformation Groups</i> , 2008, 13, 413-446.	0.7	19
36	A bound for the Rosenfeld-Grobner algorithm. <i>Journal of Symbolic Computation</i> , 2008, 43, 582-610.	0.8	9

#	ARTICLE	IF	CITATIONS
37	Bounds for Elimination of Unknowns in Systems of Differential-Algebraic Equations. International Mathematics Research Notices, 0, , .	1.0	1
38	Algorithms yield upper bounds in differential algebra. Canadian Journal of Mathematics, 0, , 1-26.	0.6	0