

Kurusch Ebrahimi-Fard

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/86374/publications.pdf>

Version: 2024-02-01

82
papers

1,268
citations

430874

18
h-index

434195

31
g-index

84
all docs

84
docs citations

84
times ranked

209
citing authors

#	ARTICLE	IF	CITATIONS
1	Cumulants Cumulant Relations in Free Probability Theory from Magnus Expansion. Foundations of Computational Mathematics, 2022, 22, 733-755.	2.5	6
2	Generating series for networks of Chen Fliess series. Systems and Control Letters, 2021, 147, 104827.	2.3	6
3	Universal Zero Dynamics: The SISO Case. , 2021, , .		3
4	Additive Networks of Chen-Fliess Series: Local Convergence and Relative Degree. , 2021, , .		0
5	Hopf-algebraic Deformations of Products and Wick Polynomials. International Mathematics Research Notices, 2020, 2020, 10064-10099.	1.0	8
6	Operads of (noncrossing) partitions, interacting bialgebras, and moment-cumulant relations. Advances in Mathematics, 2020, 369, 107170.	1.1	3
7	The Magnus expansion and post-Lie algebras. Mathematics of Computation, 2020, 89, 2785-2799.	2.1	7
8	Time-Warping Invariants of Multidimensional Time Series. Acta Applicandae Mathematicae, 2020, 170, 265-290.	1.0	7
9	Planarly branched rough paths and rough differential equations on homogeneous spaces. Journal of Differential Equations, 2020, 269, 9740-9782.	2.2	6
10	Quasi-shuffle algebras and renormalisation of rough differential equations. Bulletin of the London Mathematical Society, 2020, 52, 43-63.	0.8	10
11	A group-theoretical approach to conditionally free cumulants. , 2020, , 67-92.		3
12	Evaluating Generating Functions for Periodic Multiple Polylogarithms via Rational Chen Fliess Series. Springer Proceedings in Mathematics and Statistics, 2020, , 445-468.	0.2	0
13	What Is a Post-Lie Algebra and Why Is It Useful in Geometric Integration. Lecture Notes in Computational Science and Engineering, 2019, , 429-437.	0.3	5
14	On Non-commutative Stochastic Exponentials. Lecture Notes in Computational Science and Engineering, 2019, , 439-447.	0.3	1
15	Shuffle group laws: applications in free probability. Proceedings of the London Mathematical Society, 2019, 119, 814-840.	1.3	6
16	Monotone, free, and boolean cumulants: A shuffle algebra approach. Advances in Mathematics, 2018, 328, 112-132.	1.1	9
17	ϵ -Noncrossing Partitions and Cumulants in Free Probability. International Mathematics Research Notices, 2018, 2018, 7156-7170.	1.0	2
18	Combinatorial Hopf Algebras for Interconnected Nonlinear Input-Output Systems with a View Towards Discretization. Springer Proceedings in Mathematics and Statistics, 2018, , 139-183.	0.2	2

#	ARTICLE	IF	CITATIONS
19	Post-Lie Algebras, Factorization Theorems and Isospectral Flows. Springer Proceedings in Mathematics and Statistics, 2018, , 231-285.	0.2	2
20	Renormalisation group for multiple zeta values. Communications in Number Theory and Physics, 2018, 12, 75-96.	1.0	1
21	The Fa� di Bruno Hopf Algebra for Multivariable Feedback Recursions in the Center Problem for Higher Order Abel Equations. Abel Symposia, 2018, , 265-296.	0.3	1
22	SISO Output Affine Feedback Transformation Group and Its Fa� di Bruno Hopf Algebra. SIAM Journal on Control and Optimization, 2017, 55, 885-912.	2.1	16
23	Post-Lie algebras and factorization theorems. Journal of Geometry and Physics, 2017, 119, 19-33.	1.4	9
24	Sensitivity of the left inverse of a SISO analytic nonlinear system. , 2017, , .		0
25	Discrete-time approximations of Fliess operators. Numerische Mathematik, 2017, 137, 35-62.	1.9	11
26	A comodule-bialgebra structure for word-series substitution and mould composition. Journal of Algebra, 2017, 489, 552-581.	0.7	8
27	On the performance of antipode algorithms for the multivariable output feedback Hopf algebra. , 2017, , .		2
28	Center Problem, Abel Equation and the Fa� di Bruno Hopf Algebra for Output Feedback. International Mathematics Research Notices, 2016, , rrw167.	1.0	3
29	A combinatorial Hopf algebra for nonlinear output feedback control systems. Journal of Algebra, 2016, 453, 609-643.	0.7	23
30	The combinatorics of Green�s functions in planar field theories. Frontiers of Physics, 2016, 11, 1.	5.0	4
31	Dendriform�Tree Setting for Fliess Operators. IMA Journal of Mathematical Control and Information, 2016, , dnrw060.	1.7	0
32	Discrete-time approximations of fliess operators. , 2016, , .		2
33	Duality and (q-)multiple zeta values. Advances in Mathematics, 2016, 298, 254-285.	1.1	7
34	Renormalisation of q-Regularised Multiple Zeta Values. Letters in Mathematical Physics, 2016, 106, 365-380.	1.1	7
35	The Splitting Process in Free Probability Theory. International Mathematics Research Notices, 2016, 2016, 2647-2676.	1.0	13
36	The exponential Lie series for continuous semimartingales. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2015, 471, 20150429.	2.1	14

#	ARTICLE	IF	CITATIONS
37	Analytic left inversion of multivariable Lotka-Volterra models. , 2015, , .		9
38	Flows and stochastic Taylor series in Itô' calculus. Journal of Physics A: Mathematical and Theoretical, 2015, 48, 495202.	2.1	10
39	Analytic left inversion of SISO Lotka-Volterra models. , 2015, , .		5
40	UNFOLDING THE DOUBLE SHUFFLE STRUCTURE OF -MULTIPLE ZETA VALUES. Bulletin of the Australian Mathematical Society, 2015, 91, 368-388.	0.5	15
41	Cumulants, free cumulants and half-shuffles. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2015, 471, 20140843.	2.1	13
42	On Euler's decomposition formula for q MZVs. Ramanujan Journal, 2015, 37, 365-389.	0.7	8
43	Dendriform-tree setting for fully non-commutative Fliess operators. , 2014, , .		0
44	Lévy processes and quasi-shuffle algebras. Stochastics, 2014, 86, 632-642.	1.1	9
45	The Magnus Expansion, Trees and Knuth's Rotation Correspondence. Foundations of Computational Mathematics, 2014, 14, 1-25.	2.5	16
46	Faà di Bruno Hopf algebra of the output feedback group for multivariable Fliess operators. Systems and Control Letters, 2014, 74, 64-73.	2.3	30
47	The Pre-Lie Structure of the Time-Ordered Exponential. Letters in Mathematical Physics, 2014, 104, 1281-1302.	1.1	11
48	Noncommutative Bell polynomials, quasideterminants and incidence Hopf algebras. International Journal of Algebra and Computation, 2014, 24, 671-705.	0.5	14
49	On an extension of Knuth's rotation correspondence to reduced planar trees. Journal of Noncommutative Geometry, 2014, 8, 303-320.	0.5	8
50	The tridendriform structure of a discrete Magnus expansion. Discrete and Continuous Dynamical Systems, 2014, 34, 1021-1040.	0.9	2
51	Time-Ordering and a Generalized Magnus Expansion. Letters in Mathematical Physics, 2013, 103, 331-350.	1.1	12
52	Algebraic structure of stochastic expansions and efficient simulation. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2012, 468, 2361-2382.	2.1	12
53	Exponential renormalisation. II. Bogoliubov's R -operation and momentum subtraction schemes. Journal of Mathematical Physics, 2012, 53, 083505.	1.1	5
54	Harmonium as a laboratory for mathematical chemistry. Journal of Mathematical Chemistry, 2012, 50, 440-454.	1.5	11

#	ARTICLE	IF	CITATIONS
55	Two interacting Hopf algebras of trees: A Hopf-algebraic approach to composition and substitution of B-series. <i>Advances in Applied Mathematics</i> , 2011, 47, 282-308.	0.7	50
56	Twisted dendriform algebras and the pre-Lie Magnus expansion. <i>Journal of Pure and Applied Algebra</i> , 2011, 215, 2615-2627.	0.6	12
57	Exponential Renormalization. <i>Annales Henri Poincare</i> , 2010, 11, 943-971.	1.7	15
58	A noncommutative Bohnenblust-Spitzer identity for Rota-Baxter algebras solves Bogoliubov's recursion. <i>Journal of Noncommutative Geometry</i> , 2009, 3, 181-222.	0.5	20
59	A Magnus- and Fer-Type Formula in Dendriform Algebras. <i>Foundations of Computational Mathematics</i> , 2009, 9, 295-316.	2.5	43
60	Dendriform equations. <i>Journal of Algebra</i> , 2009, 322, 4053-4079.	0.7	28
61	Generalized Shuffles Related to Nijenhuis and TD-Algebras. <i>Communications in Algebra</i> , 2009, 37, 3064-3094.	0.6	5
62	The combinatorics of Bogoliubov's recursion in renormalization. , 2009, , 179-207.		3
63	New identities in dendriform algebras. <i>Journal of Algebra</i> , 2008, 320, 708-727.	0.7	28
64	Rota-Baxter algebras and dendriform algebras. <i>Journal of Pure and Applied Algebra</i> , 2008, 212, 320-339.	0.6	84
65	FREE ROTA-BAXTER ALGEBRAS AND ROOTED TREES. <i>Journal of Algebra and Its Applications</i> , 2008, 07, 167-194.	0.4	43
66	HOPF ALGEBRAS IN DYNAMICAL SYSTEMS THEORY. <i>International Journal of Geometric Methods in Modern Physics</i> , 2007, 04, 577-646.	2.0	10
67	A Lie Theoretic Approach to Renormalization. <i>Communications in Mathematical Physics</i> , 2007, 276, 519-549.	2.2	51
68	Combinatorics of renormalization as matrix calculus. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2006, 632, 552-558.	4.1	10
69	Mixable shuffles, quasi-shuffles and Hopf algebras. <i>Journal of Algebraic Combinatorics</i> , 2006, 24, 83-101.	0.8	51
70	Birkhoff Type Decompositions and the Baker-Campbell-Hausdorff Recursion. <i>Communications in Mathematical Physics</i> , 2006, 267, 821-845.	2.2	51
71	On matrix differential equations in the Hopf algebra of renormalization. <i>Advances in Theoretical and Mathematical Physics</i> , 2006, 10, 879-913.	0.6	8
72	On products and duality of binary, quadratic, regular operads. <i>Journal of Pure and Applied Algebra</i> , 2005, 200, 293-317.	0.6	26

#	ARTICLE	IF	CITATIONS
73	Integrable Renormalization II: The General Case. <i>Annales Henri Poincare</i> , 2005, 6, 369-395.	1.7	46
74	The Hopf algebra approach to Feynman diagram calculations. <i>Journal of Physics A</i> , 2005, 38, R385-R407.	1.6	30
75	Integrable renormalization I: The ladder case. <i>Journal of Mathematical Physics</i> , 2004, 45, 3758-3769.	1.1	26
76	Spitzer's identity and the algebraic Birkhoff decomposition in pQFT. <i>Journal of Physics A</i> , 2004, 37, 11037-11052.	1.6	71
77	On the Associative Nijenhuis Relation. <i>Electronic Journal of Combinatorics</i> , 2004, 11, .	0.4	19
78	ON THE INSERTION-ELIMINATION LIE ALGEBRA OF FEYNMAN GRAPHS. , 2004, , .		0
79	On the relation between modular theory and geometry. <i>Journal of Physics A</i> , 2002, 35, 6319-6328.	1.6	0
80	Loday-Type Algebras and the Rota-Baxter Relation. <i>Letters in Mathematical Physics</i> , 2002, 61, 139-147.	1.1	116
81	The Hopf Algebra of (q, q') -Multiple Polylogarithms with Non-positive Arguments: Table 1.. <i>International Mathematics Research Notices</i> , 0, , rnw128.	1.0	4
82	Post-Lie Algebras and Isospectral Flows. <i>Symmetry, Integrability and Geometry: Methods and Applications (SIGMA)</i> , 0, , .	0.5	7