

Kurusch Ebrahimi-Fard

List of Publications by Year in descending order

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82
papers

1,268
citations

430874

18
h-index

434195

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84
all docs

84
docs citations

84
times ranked

209
citing authors

#	ARTICLE	IF	CITATIONS
1	Loday-Type Algebras and the Rotaâ€™Baxter Relation. Letters in Mathematical Physics, 2002, 61, 139-147.	1.1	116
2	Rotaâ€™Baxter algebras and dendriform algebras. Journal of Pure and Applied Algebra, 2008, 212, 320-339.	0.6	84
3	Spitzer's identity and the algebraic Birkhoff decomposition in pQFT. Journal of Physics A, 2004, 37, 11037-11052.	1.6	71
4	Mixable shuffles, quasi-shuffles and Hopf algebras. Journal of Algebraic Combinatorics, 2006, 24, 83-101.	0.8	51
5	Birkhoff Type Decompositions and the Bakerâ€™Campbellâ€™Hausdorff Recursion. Communications in Mathematical Physics, 2006, 267, 821-845.	2.2	51
6	A Lie Theoretic Approach to Renormalization. Communications in Mathematical Physics, 2007, 276, 519-549.	2.2	51
7	Two interacting Hopf algebras of trees: A Hopf-algebraic approach to composition and substitution of B-series. Advances in Applied Mathematics, 2011, 47, 282-308.	0.7	50
8	Integrable Renormalization II: The General Case. Annales Henri Poincare, 2005, 6, 369-395.	1.7	46
9	FREE ROTAâ€™BAXTER ALGEBRAS AND ROOTED TREES. Journal of Algebra and Its Applications, 2008, 07, 167-194.	0.4	43
10	A Magnus- and Fer-Type Formula in Dendriform Algebras. Foundations of Computational Mathematics, 2009, 9, 295-316.	2.5	43
11	The Hopf algebra approach to Feynman diagram calculations. Journal of Physics A, 2005, 38, R385-R407.	1.6	30
12	FaÃ di Bruno Hopf algebra of the output feedback group for multivariable Fliess operators. Systems and Control Letters, 2014, 74, 64-73.	2.3	30
13	New identities in dendriform algebras. Journal of Algebra, 2008, 320, 708-727.	0.7	28
14	Dendriform equations. Journal of Algebra, 2009, 322, 4053-4079.	0.7	28
15	Integrable renormalization I: The ladder case. Journal of Mathematical Physics, 2004, 45, 3758-3769.	1.1	26
16	On products and duality of binary, quadratic, regular operads. Journal of Pure and Applied Algebra, 2005, 200, 293-317.	0.6	26
17	A combinatorial Hopf algebra for nonlinear output feedback control systems. Journal of Algebra, 2016, 453, 609-643.	0.7	23
18	A noncommutative Bohnenblustâ€™Spitzer identity for Rotaâ€™Baxter algebras solves Bogoliubovâ€™s recursion. Journal of Noncommutative Geometry, 2009, 3, 181-222.	0.5	20

#	ARTICLE	IF	CITATIONS
19	On the Associative Nijenhuis Relation. <i>Electronic Journal of Combinatorics</i> , 2004, 11, .	0.4	19
20	The Magnus Expansion, Trees and Knuth's Rotation Correspondence. <i>Foundations of Computational Mathematics</i> , 2014, 14, 1-25.	2.5	16
21	SISO Output Affine Feedback Transformation Group and Its Faà di Bruno Hopf Algebra. <i>SIAM Journal on Control and Optimization</i> , 2017, 55, 885-912.	2.1	16
22	Exponential Renormalization. <i>Annales Henri Poincare</i> , 2010, 11, 943-971.	1.7	15
23	UNFOLDING THE DOUBLE SHUFFLE STRUCTURE OF -MULTIPLE ZETA VALUES. <i>Bulletin of the Australian Mathematical Society</i> , 2015, 91, 368-388.	0.5	15
24	Noncommutative Bell polynomials, quasideterminants and incidence Hopf algebras. <i>International Journal of Algebra and Computation</i> , 2014, 24, 671-705.	0.5	14
25	The exponential Lie series for continuous semimartingales. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2015, 471, 20150429.	2.1	14
26	Cumulants, free cumulants and half-shuffles. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2015, 471, 20140843.	2.1	13
27	The Splitting Process in Free Probability Theory. <i>International Mathematics Research Notices</i> , 2016, 2016, 2647-2676.	1.0	13
28	Twisted dendriform algebras and the pre-Lie Magnus expansion. <i>Journal of Pure and Applied Algebra</i> , 2011, 215, 2615-2627.	0.6	12
29	Algebraic structure of stochastic expansions and efficient simulation. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2012, 468, 2361-2382.	2.1	12
30	Time-Ordering and a Generalized Magnus Expansion. <i>Letters in Mathematical Physics</i> , 2013, 103, 331-350.	1.1	12
31	Harmonium as a laboratory for mathematical chemistry. <i>Journal of Mathematical Chemistry</i> , 2012, 50, 440-454.	1.5	11
32	The Pre-Lie Structure of the Time-Ordered Exponential. <i>Letters in Mathematical Physics</i> , 2014, 104, 1281-1302.	1.1	11
33	Discrete-time approximations of Fliess operators. <i>Numerische Mathematik</i> , 2017, 137, 35-62.	1.9	11
34	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
35	HOPF ALGEBRAS IN DYNAMICAL SYSTEMS THEORY. <i>International Journal of Geometric Methods in Modern Physics</i> , 2007, 04, 577-646.	2.0	10
36	Flows and stochastic Taylor series in Itô calculus. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2015, 48, 495202.	2.1	10

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37	Quasi-shuffle algebras and renormalisation of rough differential equations. Bulletin of the London Mathematical Society, 2020, 52, 43-63.	0.8	10
38	LÃ©vy processes and quasi-shuffle algebras. Stochastics, 2014, 86, 632-642.	1.1	9
39	Analytic left inversion of multivariable Lotka-Volterra models. , 2015, , .		9
40	Post-Lie algebras and factorization theorems. Journal of Geometry and Physics, 2017, 119, 19-33.	1.4	9
41	Monotone, free, and boolean cumulants: A shuffle algebra approach. Advances in Mathematics, 2018, 328, 112-132.	1.1	9
42	On an extension of Knuth's rotation correspondence to reduced planar trees. Journal of Noncommutative Geometry, 2014, 8, 303-320.	0.5	8
43	On Euler's decomposition formula for q MZVs. Ramanujan Journal, 2015, 37, 365-389.	0.7	8
44	A comodule-bialgebra structure for word-series substitution and mould composition. Journal of Algebra, 2017, 489, 552-581.	0.7	8
45	Hopf-algebraic Deformations of Products and Wick Polynomials. International Mathematics Research Notices, 2020, 2020, 10064-10099.	1.0	8
46	On matrix differential equations in the Hopf algebra of renormalization. Advances in Theoretical and Mathematical Physics, 2006, 10, 879-913.	0.6	8
47	Duality and $(q-)$ multiple zeta values. Advances in Mathematics, 2016, 298, 254-285.	1.1	7
48	Renormalisation of q -Regularised Multiple Zeta Values. Letters in Mathematical Physics, 2016, 106, 365-380.	1.1	7
49	The Magnus expansion and post-Lie algebras. Mathematics of Computation, 2020, 89, 2785-2799.	2.1	7
50	Time-Warping Invariants of Multidimensional Time Series. Acta Applicandae Mathematicae, 2020, 170, 265-290.	1.0	7
51	Post-Lie Algebras and Isospectral Flows. Symmetry, Integrability and Geometry: Methods and Applications (SIGMA), 0, , .	0.5	7
52	Shuffle group laws: applications in free probability. Proceedings of the London Mathematical Society, 2019, 119, 814-840.	1.3	6
53	Planarly branched rough paths and rough differential equations on homogeneous spaces. Journal of Differential Equations, 2020, 269, 9740-9782.	2.2	6
54	Generating series for networks of Chen's Fliess series. Systems and Control Letters, 2021, 147, 104827.	2.3	6

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55	Cumulants – Cumulant Relations in Free Probability Theory from Magnus’s Expansion. Foundations of Computational Mathematics, 2022, 22, 733-755.	2.5	6
56	Generalized Shuffles Related to Nijenhuis and \mathcal{H} -Algebras. Communications in Algebra, 2009, 37, 3064-3094.	0.6	5
57	Exponential renormalisation. II. Bogoliubov’s R -operation and momentum subtraction schemes. Journal of Mathematical Physics, 2012, 53, 083505.	1.1	5
58	Analytic left inversion of SISO Lotka-Volterra models. , 2015, , .		5
59	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
60	The Hopf Algebra of (q) -Multiple Polylogarithms with Non-positive Arguments: Table 1.. International Mathematics Research Notices, 0, , rnw128.	1.0	4
61	The combinatorics of Green’s functions in planar field theories. Frontiers of Physics, 2016, 11, 1.	5.0	4
62	Center Problem, Abel Equation and the Faà di Bruno Hopf Algebra for Output Feedback. International Mathematics Research Notices, 2016, , rnw167.	1.0	3
63	Operads of (noncrossing) partitions, interacting bialgebras, and moment-cumulant relations. Advances in Mathematics, 2020, 369, 107170.	1.1	3
64	Universal Zero Dynamics: The SISO Case. , 2021, , .		3
65	The combinatorics of Bogoliubov’s recursion in renormalization. , 2009, , 179-207.		3
66	A group-theoretical approach to conditionally free cumulants. , 2020, , 67-92.		3
67	Discrete-time approximations of flows operators. , 2016, , .		2
68	On the performance of antipode algorithms for the multivariable output feedback Hopf algebra. , 2017, , .		2
69	ϵ -Noncrossing Partitions and Cumulants in Free Probability. International Mathematics Research Notices, 2018, 2018, 7156-7170.	1.0	2
70	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
71	Post-Lie Algebras, Factorization Theorems and Isospectral Flows. Springer Proceedings in Mathematics and Statistics, 2018, , 231-285.	0.2	2
72	The tridendriform structure of a discrete Magnus expansion. Discrete and Continuous Dynamical Systems, 2014, 34, 1021-1040.	0.9	2

#	ARTICLE	IF	CITATIONS
73	On Non-commutative Stochastic Exponentials. Lecture Notes in Computational Science and Engineering, 2019, , 439-447.	0.3	1
74	Renormalisation group for multiple zeta values. Communications in Number Theory and Physics, 2018, 12, 75-96.	1.0	1
75	The Faà 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
76	On the relation between modular theory and geometry. Journal of Physics A, 2002, 35, 6319-6328.	1.6	0
77	Dendriform-tree setting for fully non-commutative Fliess operators. , 2014, , .		0
78	Dendriform-Tree Setting for Fliess Operators. IMA Journal of Mathematical Control and Information, 2016, , dnw060.	1.7	0
79	Sensitivity of the left inverse of a SISO analytic nonlinear system. , 2017, , .		0
80	ON THE INSERTION-ELIMINATION LIE ALGEBRA OF FEYNMAN GRAPHS. , 2004, , .		0
81	Evaluating Generating Functions for Periodic Multiple Polylogarithms via Rational Chen-Fliess Series. Springer Proceedings in Mathematics and Statistics, 2020, , 445-468.	0.2	0
82	Additive Networks of Chen-Fliess Series: Local Convergence and Relative Degree. , 2021, , .		0