

Hans Munthe-Kaas

List of Publications by Year in descending order

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Version: 2024-02-01

14
papers

647
citations

1170033

9
h-index

1255698

13
g-index

17
all docs

17
docs citations

17
times ranked

249
citing authors

#	ARTICLE	IF	CITATIONS
1	What Is a Post-Lie Algebra and Why Is It Useful in Geometric Integration. Lecture Notes in Computational Science and Engineering, 2019, , 429-437.	0.1	5
2	Post-Lie algebras and factorization theorems. Journal of Geometry and Physics, 2017, 119, 19-33.	0.7	9
3	Integrators on Homogeneous Spaces: Isotropy Choice and Connections. Foundations of Computational Mathematics, 2016, 16, 899-939.	1.5	8
4	B-series methods are exactly the affine equivariant methods. Numerische Mathematik, 2016, 133, 599-622.	0.9	20
5	Aromatic Butcher Series. Foundations of Computational Mathematics, 2016, 16, 183-215.	1.5	14
6	Backward Error Analysis and the Substitution Law for Lie Group Integrators. Foundations of Computational Mathematics, 2013, 13, 161-186.	1.5	6
7	Algebraic structure of stochastic expansions and efficient simulation. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2012, 468, 2361-2382.	1.0	12
8	Applications of the Generalized Fourier Transform in Numerical Linear Algebra. BIT Numerical Mathematics, 2005, 45, 819-850.	1.0	11
9	Square-Conservative Schemes for a Class of Evolution Equations Using Lie-Group Methods. SIAM Journal on Numerical Analysis, 2002, 39, 2164-2178.	1.1	14
10	High order Runge-Kutta methods on manifolds. Applied Numerical Mathematics, 1999, 29, 115-127.	1.2	201
11	Runge-Kutta methods on Lie groups. BIT Numerical Mathematics, 1998, 38, 92-111.	1.0	201
12	Iterated Commutators, Lie's Reduction Method and Ordinary Differential Equations on Matrix Lie Groups. , 1997, , 434-441.		7
13	Simulation of ordinary differential equations on manifolds: some numerical experiments and verifications. Modeling, Identification and Control, 1997, 18, 75-88.	0.6	20
14	Lie-Butcher theory for Runge-Kutta methods. BIT Numerical Mathematics, 1995, 35, 572-587.	1.0	86