Bart Vandereycken

List of Publications by Year in descending order

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623734 752698 1,481 23 14 20 citations g-index h-index papers 23 23 23 1314 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Unifying time evolution and optimization with matrix product states. Physical Review B, 2016, 94, .	3.2	387
2	Low-Rank Matrix Completion by Riemannian Optimization. SIAM Journal on Optimization, 2013, 23, 1214-1236.	2.0	274
3	Low-rank tensor completion by Riemannian optimization. BIT Numerical Mathematics, 2014, 54, 447-468.	2.0	185
4	Time Integration of Tensor Trains. SIAM Journal on Numerical Analysis, 2015, 53, 917-941.	2.3	117
5	Dynamical Approximation by Hierarchical Tucker and Tensor-Train Tensors. SIAM Journal on Matrix Analysis and Applications, 2013, 34, 470-494.	1.4	110
6	Lipidomics reveals diurnal lipid oscillations in human skeletal muscle persisting in cellular myotubes cultured in vitro. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E8565-E8574.	7.1	74
7	The geometry of algorithms using hierarchical tensors. Linear Algebra and Its Applications, 2013, 439, 133-166.	0.9	73
8	A Riemannian Optimization Approach for Computing Low-Rank Solutions of Lyapunov Equations. SIAM Journal on Matrix Analysis and Applications, 2010, 31, 2553-2579.	1.4	59
9	Subspace Methods for Computing the Pseudospectral Abscissa and the Stability Radius. SIAM Journal on Matrix Analysis and Applications, 2014, 35, 292-313.	1.4	29
10	Ether lipids, sphingolipids and toxic 1â€deoxyceramides as hallmarks for lean and obese type 2 diabetic patients. Acta Physiologica, 2021, 232, e13610.	3.8	29
11	Time Integration of Rank-Constrained Tucker Tensors. SIAM Journal on Numerical Analysis, 2018, 56, 1273-1290.	2.3	28
12	Preconditioned Low-rank Riemannian Optimization for Linear Systems with Tensor Product Structure. SIAM Journal of Scientific Computing, 2016, 38, A2018-A2044.	2.8	27
13	Automatic rational approximation and linearization of nonlinear eigenvalue problems. IMA Journal of Numerical Analysis, 2022, 42, 1087-1115.	2.9	21
14	Projection Methods for Dynamical Low-Rank Approximation of High-Dimensional Problems. Computational Methods in Applied Mathematics, 2019, 19, 73-92.	0.8	16
15	The core clock transcription factor BMAL1 drives circadian \hat{l}^2 -cell proliferation during compensatory regeneration of the endocrine pancreas. Genes and Development, 2020, 34, 1650-1665.	5.9	13
16	Geometric Methods on Low-Rank Matrix and Tensor Manifolds. , 2020, , 261-313.		12
17	Greedy rank updates combined with Riemannian descent methods for low-rank optimization. , 2015, , .		9
18	Subspace Acceleration for the Crawford Number and Related Eigenvalue Optimization Problems. SIAM Journal on Matrix Analysis and Applications, 2018, 39, 961-982.	1.4	6

#	Article	IF	CITATIONS
19	On critical points of quadratic low-rank matrix optimization problems. IMA Journal of Numerical Analysis, 2020, 40, 2626-2651.	2.9	4
20	Explicit stabilised gradient descent for faster strongly convex optimisation. BIT Numerical Mathematics, 2021, 61, 119-139.	2.0	4
21	Criss-Cross Type Algorithms for Computing the Real Pseudospectral Abscissa. SIAM Journal on Matrix Analysis and Applications, 2017, 38, 891-923.	1.4	3
22	Riemannian Multigrid Line Search for Low-Rank Problems. SIAM Journal of Scientific Computing, 2021, 43, A1803-A1831.	2.8	1
23	A Note on the Optimal Convergence Rate of Descent Methods with Fixed Step Sizes for Smooth Strongly Convex Functions. Journal of Optimization Theory and Applications, 0, , 1.	1.5	0