Jimmie Lawson

List of Publications by Year
in descending order

39 papers	559 citations	759233 12 h-index	642732 23 g-index
41 all docs	41 docs citations	41 times ranked	149 citing authors

#	ARTICLE	IF	CITATIONS
1	Characterizations of automorphic and anti-automorphic involutions of the quaternions. Linear and Multilinear Algebra, 2021, 69, 1975-1980.	1.0	1
2	A new eigenspace characterization of split-quaternion involutions. Linear and Multilinear Algebra, 2021, 69, 1981-1988.	1.0	1
3	Nonhomogeneous Karcher equations with vector fields on positive definite matrices. European Journal of Mathematics, 2021, 7, 1291.	0.5	2
4	Analyticity of the Karcher mean coefficient maps. Linear Algebra and Its Applications, 2021, 627, 162-184.	0.9	3
5	From hyperbolic geometry to $$2 \times 2$$ Hermitian matrices and back. Journal of Geometry, 2021, 112, 1.	0.4	1
6	Existence and uniqueness of the Karcher mean on unital CâŽ-algebras. Journal of Mathematical Analysis and Applications, 2020, 483, 123625.	1.0	3
7	Loos symmetric cones. Positivity, 2019, 23, 1225-1243.	0.7	0
8	The stochastic order of probability measures on ordered metric spaces. Journal of Mathematical Analysis and Applications, 2018, 464, 707-724.	1.0	9
9	Barycentric maps for compactly supported measures. Journal of Mathematical Analysis and Applications, 2018, 458, 1009-1026.	1.0	8
10	Ordered probability spaces. Journal of Mathematical Analysis and Applications, 2017, 455, 167-179.	1.0	13
11	Homotopy Path Spaces for Families of Admissible Paths. Journal of Dynamical and Control Systems, 2017, 23, 635-654.	0.8	0
12	Function spaces from coherent continuous domains to RB-domains. Topology and Its Applications, 2016, 206, 148-157.	0.4	3
13	Local midpoints on smooth manifolds. Differential Geometry and Its Applications, 2015, 39, 129-146.	0.5	2
14	Continuity of Function Spaces from Pointwise Directed Families of Characteristic Functions. Order, 2015, 32, 409-418.	0.5	2
15	The Equivalence of QRB, QFS, and Compactness for Quasicontinuous Domains. Order, 2015, 32, 227-238.	0.5	9
16	On a subsemigroup of the universal covering of Lie semigroups. Semigroup Forum, 2014, 89, 627-638.	0.6	0
17	Karcher means and Karcher equations of positive definite operators. Transactions of the American Mathematical Society Series B, 2014, 1, 1-22.	1.1	75
18	Unit Balls, Lorentz Boosts, and Hyperbolic Geometry. Results in Mathematics, 2013, 63, 1225-1242.	0.8	16

#	ARTICLE	IF	CITATIONS
19	The least squares mean of positive Hilbertâ€"Schmidt operators. Journal of Mathematical Analysis and Applications, 2013, 403, 365-375.	1.0	7
20	Optimization via characteristic functions of cones. , 2013, , .		0
21	Weighted means and Karcher equations of positive operators. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 15626-15632.	7.1	28
22	Weighted geometric means. Forum Mathematicum, 2012, 24, .	0.7	19
23	A Lipschitz constant formula for vector addition in cones with applications to Stein-like equations. Positivity, 2012, 16, 81-95.	0.7	9
24	Smooth Bruck loops, symmetric spaces, and nonassociative vector spaces. Demonstratio Mathematica, 2011, 44, .	1.5	2
25	Monotonic properties of the least squares mean. Mathematische Annalen, 2011, 351, 267-279.	1.4	88
26	Stably compact spaces. Mathematical Structures in Computer Science, 2011, 21, 125-169.	0.6	16
27	Semigroup closures of finite rank symmetric inverse semigroups. Semigroup Forum, 2009, 78, 326-336.	0.6	4
28	Î"-Commuting triples of positive definite matrices and midpoint equations on unitary matrices. Linear Algebra and Its Applications, 2008, 428, 2030-2039.	0.9	3
29	A general framework for extending means to higher orders. Colloquium Mathematicum, 2008, 113, 191-221.	0.3	34
30	A Birkhoff contraction formula with applications to Riccati Equations. , 2007, , .		0
31	Symmetric spaces with convex metrics. Forum Mathematicum, 2007, 19, .	0.7	30
32	A Birkhoff Contraction Formula with Applications to Riccati Equations. SIAM Journal on Control and Optimization, 2007, 46, 930-951.	2.1	22
33	Solving symmetric matrix word equations via symmetric space machinery. Linear Algebra and Its Applications, 2006, 414, 560-569.	0.9	9
34	The Symplectic Semigroup and Riccati Differential Equations. Journal of Dynamical and Control Systems, 2006, 12, 49-77.	0.8	12
35	Symmetric Sets With Midpoints and Algebraically Equivalent Theories. Resultate Der Mathematik, 2004, 46, 37-56.	0.2	12
36	Lie semigroups with triple decompositions. Pacific Journal of Mathematics, 2000, 194, 393-412.	0.5	11

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37	Spaces of maximal points. Mathematical Structures in Computer Science, 1997, 7, 543-555.	0.6	102
38	Separating Points of Î²â„• By Minimal Flows. Canadian Journal of Mathematics, 1994, 46, 758-771.	0.6	2
39	Classification of involutive automorphisms and anti-automorphisms of the Lie algebra of quaternions. Linear and Multilinear Algebra, 0, , 1-9.	1.0	0