Jan Hamhalter

List of Publications by Year
in descending order

85 papers	514 citations	933447 10 h-index	940533 16 g-index
87 all docs	87 docs citations	87 times ranked	110 citing authors

#	Article	IF	Citations
1	Determinants in Jordan matrix algebras. Linear and Multilinear Algebra, 2023, 71, 961-1002.	1.0	1
2	Structure of preservers of range orthogonality on *-rings and CâŽ-algebras. Linear Algebra and Its Applications, 2022, 642, 139-159.	0.9	2
3	Lyapunov Convexity Theorem for von Neumann Algebras and Jordan Operator Structures. Mediterranean Journal of Mathematics, 2021, 18, 1.	0.8	0
4	Jordan Invariants of Von Neumann Algebras Given by Abelian Subalgebras and Choquet Order on State Spaces. International Journal of Theoretical Physics, 2021, 60, 597-607.	1.2	3
5	Dyeâ€™s theorem for tripotents in von Neumann algebras and JBW$*$-triples. Banach Journal of Mathematical Analysis, 2021, 15, 1.	0.8	2
6	Spectral Order for Jordan Triples. Proceedings of the Steklov Institute of Mathematics, 2021, 313, 258-262.	0.3	0
7	Star Order and Partial Isometries in $$\boldsymbol{C}^{\mathbf{\ast}}$$-Algebras. Lobachevskii Journal of Mathematics, 2021, 42, 2325-2332.	0.9	0
8	Measures of weak non-compactness in preduals of von Neumann algebras and JBWâŽ-triples. Journal of Functional Analysis, 2020, 278, 108300.	1.4	13
9	Finite tripotents and finite JBWâŽ-triples. Journal of Mathematical Analysis and Applications, 2020, 490, 124217.	1.0	6
10	Completeness of Inner Product Spaces Associated with Functional on Jordan Structures. Lobachevskii Journal of Mathematics, 2020, 41, 661-665.	0.9	0
11	The order topology on duals of $C^\ast$-algebras and von Neumann algebras. Studia Mathematica, 2020, 254, 219-236.	0.7	3
12	Determinacy of Functionals and Lyapunov Theorem for Jordan Triple Structures and von Neumann Algebras. Lobachevskii Journal of Mathematics, 2020, 41, 2320-2325.	0.9	0
13	Linearity of Maps on Banach and Operator Algebras. Lobachevskii Journal of Mathematics, 2020, 41, 435-439.	0.9	0
14	Grothendieckâ€™s inequalities for JB*-triples: Proof of the Bartonâ€"Friedman conjecture. Transactions of the American Mathematical Society, 2020, 374, 1327-1350.	0.9	6
15	Additivity of Quadratic Maps on JB Algebras. Lobachevskii Journal of Mathematics, 2019, 40, 1483-1488.	0.9	2
16	Choquet Order and Jordan Morphisms of Operator Algebras. Journal of Mathematical Sciences, 2019, 241, 501-506.	0.4	0
17	Measures of weak non-compactness in spaces of nuclear operators. Mathematische Zeitschrift, 2019, 292, 453-471.	0.9	5
18	Preduals of JBW*-triples are 1-Plichko spaces. Quarterly Journal of Mathematics, 2018, 69, 655-680.	0.8	8

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19	Piecewise âŽ-homomorphisms and Jordan maps on CâŽ-algebras and factor von Neumann algebras. Journal of Mathematical Analysis and Applications, 2018, 462, 1014-1031.	1.0	6
20	Choquet Order and Jordan Maps. Lobachevskii Journal of Mathematics, 2018, 39, 340-347.	0.9	3
21	Structure of abelian parts of C * -algebras and its preservers. Acta Scientiarum Mathematicarum, 2018, 84, 263-275.	0.4	0
22	Linear algebraic proof of Wigner theorem and its consequences. Mathematica Slovaca, 2017, 67, 371-386.	0.6	5
23	Operational independence and tensor products of C*-algebras. Journal of Mathematical Physics, 2017, 58, 032303.	1.1	2
24	Quantum Spectral Symmetries. International Journal of Theoretical Physics, 2017, 56, 3807-3818.	1.2	5
25	Decompositions of preduals of JBW and JBWâŽ algebras. Journal of Mathematical Analysis and Applications, 2017, 446, 18-37.	1.0	11
26	Boundedness of completely additive measures with application to 2-local triple derivations. Journal of Mathematical Physics, 2016, 57, .	1.1	3
27	Completeness of Gelfand-Neumark-Segal inner product space on Jordan algebras. Mathematica Slovaca, 2016, 66, 459-468.	0.6	2
28	Star order on operator and function algebras and its nonlinear preservers. Linear and Multilinear Algebra, 2016, 64, 2519-2532.	1.0	2
29	Orthogonal Measures on State Spaces and Context Structure of Quantum Theory. International Journal of Theoretical Physics, 2016, 55, 3353-3365.	1.2	6
30	Spectral order on AW*-algebras and its preservers. Lobachevskii Journal of Mathematics, 2016, 37, 439-448.	0.9	9
31	On Markushevich bases in preduals of von Neumann algebras. Israel Journal of Mathematics, 2016, 214, 867-884.	0.8	9
32	Bell Correlated and EPR States in the Framework of Jordan Algebras. Foundations of Physics, 2016, 46, 330-349.	1.3	0
33	Dye's Theorem and Gleason's Theorem for AWâŽ-algebras. Journal of Mathematical Analysis and Applications, 2015, 422, 1103-1115.	1.0	23
34	Comment on: â€œTwo elementary proofs of the Wigner theorem on symmetry in quantum mechanicsâ€• [Phys. Lett. A 372 (2008) 6847]. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 2332-2335.	2.1	7
35	Automorphisms of Order Structures of Abelian Parts of Operator Algebras and Their Role in Quantum Theory. International Journal of Theoretical Physics, 2014, 53, 3333-3345.	1.2	9
36	Classes of Invariant Subspaces for Some Operator Algebras. International Journal of Theoretical Physics, 2014, 53, 3397-3408.	1.2	2

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37	Star order on JBW algebras. Journal of Mathematical Analysis and Applications, 2014, 417, 873-888.	1.0	2
38	STRUCTURE OF ASSOCIATIVE SUBALGEBRAS OF JORDAN OPERATOR ALGEBRAS. Quarterly Journal of Mathematics, 2013, 64, 397-408.	0.8	13
39	Affiliated subspaces and infiniteness of von Neumann algebras. Mathematische Nachrichten, 2013, 286, 976-985.	0.8	2
40	Nonlinear maps on von Neumann algebras preserving the star order. Linear and Multilinear Algebra, 2013, 61, 998-1009.	1.0	6
41	Affiliated subspaces and the structure of von Neumann algebras. Journal of Operator Theory, 2013, 69, 101-115.	0.4	9
42	Linear maps preserving maximal deviation and the Jordan structure of quantum systems. Journal of Mathematical Physics, 2012, 53, .	1.1	2
43	COMPLETENESS OF *-SYMMETRIC GELFAND-NAIMARK-SEGAL INNER PRODUCT SPACES. Quarterly Journal of Mathematics, 2012, 63, 367-373.	0.8	3
44	Subspace Structures in Inner Product Spaces andÂvonÂNeumann Algebras. International Journal of Theoretical Physics, 2011, 50, 3812-3820.	1.2	3
45	Isomorphisms of ordered structures of abelian <mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.Journal of	1.0	25
46	Absolute Continuity in Noncommutative Measure Theory. International Journal of Theoretical Physics, 2010, 49, 3139-3145.	1.2	0
47	Bellâ€™s Correlations and Spin Systems. Foundations of Physics, 2010, 40, 1065-1075.	1.3	3
48	Independence of group algebras. Mathematische Nachrichten, 2010, 283, 818-827.	0.8	3
49	Maximal violation of Bellâ€™s inequalities and Pauli spin matrices. Journal of Mathematical Physics, 2009, 50, 082101.	1.1	3
50	A noncommutative Brooksâ€"Jewett Theorem. Journal of Mathematical Analysis and Applications, 2009, 355, 839-845.	1.0	2
51	Spectral Lattices. International Journal of Theoretical Physics, 2008, 47, 245-251.	1.2	4
52	NON-COMMUTATIVE VITALI-HAHN-SAKS THEOREM HOLDS PRECISELY FOR FINITE W*-ALGEBRAS. Quarterly Journal of Mathematics, 2008, 60, 45-51.	0.8	3
53	Spectral order of operators and range projections. Journal of Mathematical Analysis and Applications, 2007, 331, 1122-1134.	1.0	19
54	Quantum structures and operator algebras. , 2007, , 285-333.		3

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55	VITALI–HAHN–SAKS THEOREM FOR VECTOR MEASURES ON OPERATOR ALGEBRAS. Quarterly Journal of Mathematics, 2006, 57, 479-493.	0.8	8
56	Orthogonal Pure States in Operator Theory. International Journal of Theoretical Physics, 2005, 44, 839-847.	1.2	0
57	States on Operator Algebras and Axiomatic System of Quantum Theory. International Journal of Theoretical Physics, 2005, 44, 1943-1956.	1.2	1
58	States and Structure of von Neumann Algebras. International Journal of Theoretical Physics, 2004, 43, 1561-1571.	1.2	0
59	States and Structure of von Neumann Algebras. International Journal of Theoretical Physics, 2004, 43, 2101-2111.	1.2	1
60	Traces, Dispersions of States and Hidden Variables. Foundations of Physics Letters, 2004, 17, 581-597.	0.6	6
61	C*-Independence, Product States and Commutation. Annales Henri Poincare, 2004, 5, 1081-1095.	1.7	5
62	Quantum Measure Theory. , 2003, , .		100
63	C*-Independence andW*-Independence of von Neumann Algebras. Mathematische Nachrichten, 2002, 239-240, 146-156.	0.8	10
64	De Morgan Property for Effect Algebras of von Neumann Algebras. Letters in Mathematical Physics, 2002, 59, 243-252.	1.1	5
65	Restricting and Extending States and Positive Maps on Operator Algebras. International Journal of Theoretical Physics, 2000, 39, 721-726.	1.2	0
66	On the de Morgan Property of the Standard Brouwer–Zadeh Poset. Foundations of Physics, 2000, 30, 1801-1805.	1.3	0
67	JAUCH–PIRON STATES AND σ-ADDITIVITY. Reviews in Mathematical Physics, 2000, 12, 767-777.	1.7	3
68	Universal state space embeddability of Jordan-Banach algebras. Proceedings of the American Mathematical Society, 1999, 127, 131-137.	0.8	2
69	Supporting sequences of pure states on JB algebras. Studia Mathematica, 1999, 136, 37-47.	0.7	3
70	Determinacy of States and Independence of Operator Algebras. International Journal of Theoretical Physics, 1998, 37, 599-607.	1.2	4
71	Extension of Jauch–Piron states on Jordan algebras. Mathematical Proceedings of the Cambridge Philosophical Society, 1996, 119, 279-286.	0.4	5
72	Extension properties of states on operator algebras. International Journal of Theoretical Physics, 1995, 34, 1431-1437.	1.2	1

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73	States on orthoalgebras. International Journal of Theoretical Physics, 1995, 34, 1439-1465.	1.2	20
74	Countably additive homomorphisms between von Neumann algebras. Proceedings of the American Mathematical Society, 1995, 123, 3437-3437.	0.8	5
75	Traces and subadditive measures on projections in ${m JBW}$-algebras and von Neumann algebras. Proceedings of the American Mathematical Society, 1995, 123, 157-157.	0.8	5
76	Gleason Property and Extensions of States on Projection Logics. Bulletin of the London Mathematical Society, 1994, 26, 367-372.	0.8	6
77	Jauch-Piron states on von Neumann algebras. Mathematische Zeitschrift, 1994, 215, 491-502.	0.9	12
78	States on projection logics of von Neumann algebras. International Journal of Theoretical Physics, 1993, 32, 1889-1892.	1.2	0
79	Additivity of vector gleason measures. International Journal of Theoretical Physics, 1992, 31, 3-13.	1.2	1
80	On the topological linear spaces whose subspace lattices are modular. Rendiconti Del Circolo Matematico Di Palermo, 1992, 41, 231-240.	1.3	0
81	States on $Wsp *$-algebras and orthogonal vector measures. Proceedings of the American Mathematical Society, 1990, 110, 803-803.	0.8	1
82	A Representation of Finitely-Modular AC-lattices. Mathematische Nachrichten, 1990, 147, 281-284.	0.8	1
83	States on W â ̂— -Algebras and Orthogonal Vector Measures. Proceedings of the American Mathematical Society, 1990, 110, 803.	0.8	3
84	A Completeness Criterion for Inner Product Spaces. Bulletin of the London Mathematical Society, 1987, 19, 259-263.	0.8	40
85	The order topology for a von Neumann algebra. Studia Mathematica, 0, , 1-26.	0.7	2