

A Vourdas

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

144
papers

2,358
citations

26
h-index

42
g-index

148
ext. papers

2,451
ext. citations

2.1
avg. IF

5.43
L-index

#	Paper	IF	Citations
144	Markov chains with doubly stochastic transition matrices and application to a sequence of non-selective quantum measurements. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2022 , 593, 126911	3.3	
143	Equivalence classes of coherent projectors in a Hilbert space with prime dimension: Q functions and their Gini index. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2020 , 53, 215201	2	1
142	The Desargues and Pappus properties in finite quantum systems. <i>Journal of Physics: Conference Series</i> , 2019 , 1194, 012069	0.3	
141	Phase space methods: independence of subspaces. <i>Journal of Physics: Conference Series</i> , 2019 , 1194, 012111	0.3	
140	Probabilistic inequalities and measurements in bipartite systems. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2019 , 52, 085301	2	4
139	Independence and totalness of subspaces in phase space methods. <i>Annals of Physics</i> , 2018 , 391, 83-111	2.5	1
138	Selective correlations in finite quantum systems and the Desargues property. <i>Journal of Geometry and Physics</i> , 2018 , 128, 118-127	1.2	1
137	The groupoid of bifractional transformations. <i>Journal of Mathematical Physics</i> , 2017 , 58, 052103	1.2	
136	Dressed coherent states in finite quantum systems: A cooperative game theory approach. <i>Annals of Physics</i> , 2017 , 376, 153-181	2.5	5
135	Comonotonicity and Choquet integrals of Hermitian operators and their applications. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2016 , 49, 145002	2	6
134	Paths of zeros of analytic functions describing finite quantum systems. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016 , 380, 548-553	2.3	0
133	Möbius operators and non-additive quantum probabilities in the Birkhoff–von Neumann lattice. <i>Journal of Geometry and Physics</i> , 2016 , 101, 38-51	1.2	11
132	An analytic function approach to weak mutually unbiased bases. <i>Annals of Physics</i> , 2016 , 371, 1-19	2.5	2
131	Interpolation between phase space quantities with bifractional displacement operators. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2015 , 379, 255-260	2.3	2
130	Bi-fractional Wigner functions. <i>Journal of Physics: Conference Series</i> , 2015 , 597, 012007	0.3	
129	Analytic representations with theta functions for systems on $Z(d)$ and on \mathbb{Z} . <i>Journal of Mathematical Physics</i> , 2015 , 56, 072108	1.2	1
128	Partial ordering of weak mutually unbiased bases. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2014 , 47, 485204	2	2

127	Lower and upper probabilities in the distributive lattice of subsystems. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2014 , 47, 345203	2	6
126	Mutually unbiased projectors and duality between lines and bases in finite quantum systems. <i>Annals of Physics</i> , 2013 , 337, 208-220	2.5	8
125	The complete Heyting algebra of subsystems and contextuality. <i>Journal of Mathematical Physics</i> , 2013 , 54, 082105	1.2	7
124	Quantum mechanics on profinite groups and partial order. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2013 , 46, 043001	2	5
123	Large-scale data analysis using the Wigner function. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012 , 391, 2401-2407	3.3	3
122	Harmonic analysis on rational numbers. <i>Journal of Mathematical Analysis and Applications</i> , 2012 , 394, 48-60	1.1	4
121	Weak mutually unbiased bases. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2012 , 45, 052001	2	9
120	Partial order and a T0-topology in a set of finite quantum systems. <i>Journal of Mathematical Physics</i> , 2012 , 53, 122101	1.2	3
119	Weak coherent states related to the multiplicative group $\{\mathbb{C}\}^*$. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2011 , 44, 215304	2	
118	Engineering of quantum systems with variables in $\mathbb{GF}(p)$. <i>Journal of Physics: Conference Series</i> , 2011 , 284, 012061	0.3	
117	Quantum mechanics on \mathbb{Q}/\mathbb{Z} . <i>Journal of Mathematical Physics</i> , 2011 , 52, 062103	1.2	6
116	Tomographically complete sets of orthonormal bases in finite systems. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2011 , 44, 345303	2	10
115	Hamiltonians of quantum systems with positions and momenta in $\mathbb{GF}(p)$. <i>Journal of Mathematical Physics</i> , 2010 , 51, 052102	1.2	4
114	Zeros in analytic representations of finite quantum systems on a torus. <i>Physica Scripta</i> , 2010 , 82, 038107	2.6	2
113	Symplectic transformations and quantum tomography in finite quantum systems. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010 , 43, 042001	2	22
112	Totally Disconnected and Locally Compact Heisenberg-Weyl Groups. <i>Journal of Fourier Analysis and Applications</i> , 2010 , 16, 748-767	1.1	6
111	Harmonic analysis on \mathbb{Q}/\mathbb{Z} . <i>Journal of Mathematical Analysis and Applications</i> , 2010 , 370, 57-70	1.1	3
110	Harmonic analysis on \mathbb{Q}/\mathbb{Z} . <i>Journal of Mathematical Analysis and Applications</i> , 2010 , 370, 71-81	1.1	3

109	Quantum number theoretic transforms on multipartite finite systems. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2009 , 26, 1360-5	1.8	
108	Fourth-order interference and the extended phase-space formalism for finite quantum systems. <i>Physical Review A</i> , 2009 , 80,	2.6	3
107	Quantum mechanics on p-adic numbers. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008 , 41, 455303	2	11
106	Quantum systems with positions and momenta on a Galois field. <i>Journal of Physics: Conference Series</i> , 2008 , 104, 012014	0.3	
105	Harmonic Analysis on a Galois Field and Its Subfields. <i>Journal of Fourier Analysis and Applications</i> , 2008 , 14, 102-123	1.1	12
104	Symplectic transformations and entanglement in multipartite finite systems. <i>European Physical Journal D</i> , 2008 , 49, 265-272	1.3	4
103	Quantum systems with finite Hilbert space: Galois fields in quantum mechanics. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007 , 40, R285-R331	2	65
102	Applications and implementation of Fourier multiport devices. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2006 , 39, 1625-1637	1.3	8
101	The influence of entangled photons on distant persistent currents. <i>Journal of Physics Condensed Matter</i> , 2006 , 18, 1367-1379	1.8	2
100	Photon-induced entanglement of distant mesoscopic SQUID rings 2006 , 239-246		
99	Galois quantum systems, irreducible polynomials and Riemann surfaces. <i>Journal of Mathematical Physics</i> , 2006 , 47, 092104	1.2	13
98	Analytic representations in quantum mechanics. <i>Journal of Physics A</i> , 2006 , 39, R65-R141		82
97	The Frobenius Formalism in Galois Quantum Systems. <i>Acta Applicandae Mathematicae</i> , 2006 , 93, 197-214	1.1	16
96	Time Evolution of two distant SQUID rings irradiated with entangled electromagnetic field 2006 , 247-253		
95	Entanglement of distant superconducting quantum interference device rings. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2005 , 7, S721-S727		1
94	Mode displacements in multimode systems and applications to entanglement. <i>Physical Review A</i> , 2005 , 71,	2.6	1
93	Galois quantum systems. <i>Journal of Physics A</i> , 2005 , 38, 8453-8471		29
92	The influence of non-classical electromagnetic fields on persistent currents. <i>Physica Status Solidi (B): Basic Research</i> , 2005 , 242, 296-302	1.3	3

91	Propagation of a quantum state in a continuum of coupled oscillators and applications to entanglement. <i>Journal of Physics A</i> , 2005 , 38, 9859-9875		
90	Electron interference in mesoscopic devices in the presence of nonclassical electromagnetic fields. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2005 , 7, R73-R87		1
89	Fourier multiport devices. <i>Physical Review A</i> , 2005 , 71,	2.6	24
88	Analytic and contour representations in the unit disk based on SU(1,1) coherent states. <i>Journal of Mathematical Physics</i> , 2005 , 46, 112101	1.2	1
87	Entangled quantum currents in distant mesoscopic Josephson junctions. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, 9169-9180	1.8	5
86	Entanglement of distant electron interference experiments. <i>Physical Review A</i> , 2004 , 69,	2.6	10
85	Persistent currents in the presence of nonclassical electromagnetic fields. <i>Physical Review B</i> , 2004 , 69,	3.3	7
84	Superconducting analogs of quantum optical phenomena: Macroscopic quantum superpositions and squeezing in a superconducting quantum-interference device ring. <i>Physical Review A</i> , 2004 , 69,	2.6	31
83	Local correlations and uncertainties in one-mode systems. <i>Physical Review A</i> , 2004 , 69,	2.6	5
82	Quantum systems with finite Hilbert space. <i>Reports on Progress in Physics</i> , 2004 , 67, 267-320	14.4	221
81	Analytic representation of finite quantum systems. <i>Journal of Physics A</i> , 2004 , 37, 8349-8363		23
80	Symplectically entangled states and their applications to coding. <i>Journal of Physics A</i> , 2004 , 37, 3305-3319		5
79	Vortices In Josephson Arrays Interacting With Nonclassical Microwaves In A Dissipative Environment 2004 , 69-76		
78	Entangling transformations in composite finite quantum systems. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2003 , 5, S581-S585		5
77	Entangling gates using Josephson circuits coupled through non-classical microwaves. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003 , 319, 67-72	2.3	13
76	Factorization in finite quantum systems. <i>Journal of Physics A</i> , 2003 , 36, 5645-5653		16
75	Interaction of mesoscopic Josephson devices with non-classical microwaves. <i>Contemporary Physics</i> , 2003 , 44, 259-264	3.3	5
74	Phase space methods for particles on a circle. <i>Journal of Mathematical Physics</i> , 2003 , 44, 5084-5094	1.2	8

73	Interaction of Mesoscopic Devices with Non-Classical Electromagnetic Fields 2003 , 195-210		
72	Correlations in interfering electrons irradiated by nonclassical microwaves. <i>Physical Review A</i> , 2002 , 66,	2.6	12
71	Coding with finite quantum systems. <i>Physical Review A</i> , 2002 , 65,	2.6	11
70	Quantum systems with finite Hilbert space and Chebyshev polynomials. <i>Journal of Computational and Applied Mathematics</i> , 2001 , 133, 657-664	2.4	1
69	Quantum correlations and the extended phase space. <i>Journal of Physics A</i> , 2001 , 34, 9849-9860		6
68	Tunneling of vortices through a weak link in an insulating Josephson array. <i>Physical Review B</i> , 2001 , 63,	3.3	2
67	Destruction of the interference by external nonclassical microwaves: The effect of quantum and classical noise on the phase factor. <i>Physical Review A</i> , 2001 , 64,	2.6	11
66	Gabor representation of optical signals using a truncated von Neumann lattice and its practical implementation. <i>Optical Engineering</i> , 2000 , 39, 1965	1.1	8
65	The extended phase space: a formalism for the study of quantum noise and quantum correlations. <i>Journal of Physics A</i> , 1999 , 32, 6949-6961		11
64	Bloch steps in vortex interference in the presence of classical and nonclassical electromagnetic fields. <i>Physical Review B</i> , 1999 , 60, 620-626	3.3	7
63	Fractional Fourier operators and generalized Wigner functions. <i>Physical Review A</i> , 1999 , 60, 3467-3473	2.6	26
62	Quantum filtering of noise in the Wigner function. <i>Journal of Modern Optics</i> , 1999 , 46, 2131-2141	1.1	3
61	Dual Josephson phenomena with vortices. <i>Europhysics Letters</i> , 1999 , 48, 201-207	1.6	6
60	Rate distortion and detection in quantum communication. <i>IEEE Transactions on Information Theory</i> , 1998 , 44, 1658-1665	2.8	3
59	Weyl and Wigner functions in an extended phase-space formalism. <i>Physical Review A</i> , 1998 , 58, 1794-1798		31
58	Quantum systems at negative temperatures: a holomorphic approach based on coherent states. <i>Journal of Physics A</i> , 1998 , 31, 8563-8575		9
57	Determination of quantized electromagnetic-field state via electron interferometry. <i>Europhysics Letters</i> , 1998 , 43, 659-670	1.6	9
56	Extraction of information from acoustic vibration signals using Gabor transform type devices. <i>Measurement Science and Technology</i> , 1998 , 9, 1282-1290	2	32

55	Resolutions of the identity in terms of line integrals of $SU(1, 1)$ coherent states. <i>Journal of Physics A</i> , 1998 , 31, 9341-9352		14
54	Weyl functions and their use in the study of quantum interference. <i>Physical Review A</i> , 1998 , 58, 848-855	2.6	44
53	Robust quantum state engineering using coherent states on a truncated von Neumann lattice. <i>Journal of Modern Optics</i> , 1998 , 45, 1155-1161	1.1	3
52	The growth of Bargmann functions and the completeness of sequences of coherent states. <i>Journal of Physics A</i> , 1997 , 30, 4867-4876		11
51	Coherent evolution in a multiply connected space in the presence of a fractional magnetic flux: the back-reaction effect. <i>Journal of Physics A</i> , 1997 , 30, 5195-5206		4
50	Correlations in an Aharonov-Bohm phenomena. <i>Physical Review A</i> , 1997 , 56, 2408-2411	2.6	9
49	Phase space methods for finite quantum systems. <i>Reports on Mathematical Physics</i> , 1997 , 40, 367-371	0.8	24
48	Stability of a DC SF/sub 6/ arc in an axially accelerating flow. <i>IEEE Transactions on Plasma Science</i> , 1997 , 25, 852-859	1.3	10
47	Quantum currents in mesoscopic Josephson junctions in the presence of non-classical microwaves. <i>Zeitschrift für Physik B-Condensed Matter</i> , 1997 , 100, 455-460		24
46	Single Cooper-pair tunnelling induced by non-classical microwaves. <i>Europhysics Letters</i> , 1996 , 34, 385-390	0.6	19
45	Analytic representations based on $SU(1, 1)$ coherent states and their applications. <i>Journal of Physics A</i> , 1996 , 29, 5873-5885		54
44	Parity-dependent squeezing of light. <i>Journal of Physics A</i> , 1996 , 29, 2053-2067		11
43	Factorization of analytic representations in the unit disc and number-phase statistics of a quantum harmonic oscillator. <i>Journal of Physics A</i> , 1996 , 29, 5887-5898		13
42	Quantum theory of the interaction of Josephson junctions with non-classical microwaves. <i>Zeitschrift für Physik B-Condensed Matter</i> , 1996 , 102, 43-54		41
41	Fractional Shapiro steps in electron interference in the presence of nonclassical microwaves. <i>Physical Review B</i> , 1996 , 54, 13175-13183	3.3	16
40	Quantum amplifiers at microwave frequencies using Josephson junctions. <i>Journal of Modern Optics</i> , 1996 , 43, 2105-2117	1.1	26
39	Dirac's contour representation in thermofield dynamics. <i>Physical Review A</i> , 1996 , 53, R1205-R1208	2.6	15
38	Resolutions of the identity in terms of $SU(2)$ coherent states and their use for quantum-state engineering. <i>Physical Review A</i> , 1996 , 54, 4544-4552	2.6	10

37	The angle-angular momentum quantum phase space. <i>Journal of Physics A</i> , 1996 , 29, 4275-4288		45
36	Displaced negative-binomial mixed states: Generalized thermo-field-dynamics. <i>Physical Review A</i> , 1995 , 51, 2353-2360	2.6	12
35	Electron Interference in the Presence of AC Non-Classical Electromagnetic Fields. <i>Europhysics Letters</i> , 1995 , 32, 289-294	1.6	19
34	SU(2) coherent states on an m-sheeted covering of the sphere. <i>Journal of Mathematical Physics</i> , 1995 , 36, 4757-4773	1.2	4
33	Mesoscopic Josephson junctions in the presence of nonclassical electromagnetic fields. <i>Physical Review B</i> , 1994 , 49, 12040-12046	3.3	112
32	Displaced and squeezed parity operator: Its role in classical mappings of quantum theories. <i>Physical Review A</i> , 1994 , 50, 4488-4501	2.6	58
31	Thermal coherent states in the Bargmann representation. <i>Physical Review A</i> , 1994 , 50, 3331-3339	2.6	28
30	Pulse Position Modulation and Extended Pulse Position Modulation with Squeezed Light. <i>Journal of Modern Optics</i> , 1994 , 41, 2291-2299	1.1	2
29	Coherent states on the m-sheeted complex plane. <i>Journal of Mathematical Physics</i> , 1994 , 35, 2687-2697	1.2	9
28	Phase states: an analytic approach in the unit disc. <i>Physica Scripta</i> , 1993 , T48, 84-86	2.6	29
27	Coherent states on the m-sheeted covering group of SU(1,1). <i>Journal of Mathematical Physics</i> , 1993 , 34, 1223-1235	1.2	13
26	Duality, measurements, and factorization in finite quantum systems. <i>Physical Review A</i> , 1993 , 47, 3523-3529		42
25	Acoustic monitoring of partial discharges in gas insulated substations using optical sensors. <i>IEE Proceedings, Part A: Science, Measurement and Technology</i> , 1993 , 140, 369		9
24	Dual Measurements and Information in Quantum Optics 1993 , 183-188		
23	Chromatic Modulation for Optical Fibre Sensing Electromagnetic and Speckle Noise Analysis. <i>Journal of Modern Optics</i> , 1992 , 39, 2301-2314	1.1	5
22	Analytic representations in the unit disk and applications to phase states and squeezing. <i>Physical Review A</i> , 1992 , 45, 1943-1950	2.6	45
21	Superpositions of macroscopically distinguishable states in the presence of thermal noise. <i>Optics Communications</i> , 1992 , 91, 236-240	2	9
20	Transformations in the angle-angular-momentum phase space. <i>Physical Review A</i> , 1991 , 43, 1564-1572	2.6	32

19	Binary Optical Communication with Quantum Signals Propagating in Nonlinear Media. <i>Journal of Modern Optics</i> , 1990 , 37, 1661-1672	1.1	5
18	. <i>IEEE Transactions on Information Theory</i> , 1990 , 36, 208-211	2.8	4
17	Information theory approach to quantum non-demolition measurements. <i>Optics Communications</i> , 1990 , 76, 164-168	2	2
16	Gaussian bases for radar signal analysis. <i>Signal Processing</i> , 1990 , 20, 163-169	4.4	6
15	SU(2) and SU(1,1) phase states. <i>Physical Review A</i> , 1990 , 41, 1653-1661	2.6	167
14	Interacting gluon model for hadron-nucleus and nucleus-nucleus collisions in the central rapidity region. <i>Physical Review C</i> , 1989 , 40, 1219-1233	2.7	27
13	Phase-admixed states: Coherence and incoherence. <i>Physical Review A</i> , 1989 , 39, 214-220	2.6	12
12	Optical signals with thermal noise. <i>Physical Review A</i> , 1989 , 39, 206-213	2.6	23
11	Initial energy density distribution in high energy heavy ion reactions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1988 , 214, 657-659	4.2	4
10	General two-mode squeezed states. <i>European Physical Journal B</i> , 1988 , 71, 527-529	1.2	25
9	Superposition of number eigenstates with thermal light. <i>Physical Review A</i> , 1988 , 37, 3890-3895	2.6	15
8	Multiplicity distributions and Bose-Einstein correlations in high-energy multiparticle production in the presence of squeezed coherent states. <i>Physical Review D</i> , 1988 , 38, 2209-2217	4.9	28
7	A new coherent paired state with possible applications to fluctuation-dissipation phenomena. <i>Journal of Physics A</i> , 1987 , 20, 3727-3741		21
6	Inelasticity and leading-particle effect: Momentum and mass distribution of the central fireball in high-energy hadronic interactions. <i>Physical Review D</i> , 1987 , 35, 870-874	4.9	27
5	Photon-counting distribution in squeezed states. <i>Physical Review A</i> , 1987 , 36, 5866-5869	2.6	83
4	Coherent mixed states and a generalised P representation. <i>Journal of Physics A</i> , 1987 , 20, 3743-3769		37
3	Generalised coherent states and Bogoliubov transformations. <i>Journal of Physics A</i> , 1986 , 19, 2525-2536		35
2	Superposition of squeezed coherent states with thermal light. <i>Physical Review A</i> , 1986 , 34, 3466-3469	2.6	59

1 Robust quantum state engineering using coherent states on a truncated von Neumann lattice

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