

John E Gough

List of Publications by Year in descending order

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78
papers

1,631
citations

394421

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h-index

302126

39
g-index

79
all docs

79
docs citations

79
times ranked

452
citing authors

#	ARTICLE	IF	CITATIONS
1	The Series Product and Its Application to Quantum Feedforward and Feedback Networks. IEEE Transactions on Automatic Control, 2009, 54, 2530-2544.	5.7	349
2	Quantum Feedback Networks: Hamiltonian Formulation. Communications in Mathematical Physics, 2009, 287, 1109-1132.	2.2	145
3	Squeezing components in linear quantum feedback networks. Physical Review A, 2010, 81, .	2.5	134
4	Quantum Dissipative Systems and Feedback Control Design by Interconnection. IEEE Transactions on Automatic Control, 2010, 55, 1806-1821.	5.7	100
5	Quantum filtering for systems driven by fields in single-photon states or superposition of coherent states. Physical Review A, 2012, 86, .	2.5	90
6	Linear quantum feedback networks. Physical Review A, 2008, 78, .	2.5	79
7	Enhancement of field squeezing using coherent feedback. Physical Review A, 2009, 80, .	2.5	63
8	Hamiltonâ€“Jacobiâ€“Bellman equations for quantum optimal feedback control. Journal of Optics B: Quantum and Semiclassical Optics, 2005, 7, S237-S244.	1.4	40
9	On realization theory of quantum linear systems. Automatica, 2015, 59, 139-151.	5.0	38
10	Are Emergency Department Patients at Risk for Herbâ€“Drug Interactions?. Academic Emergency Medicine, 2001, 8, 932-934.	1.8	37
11	Quantum filtering for systems driven by fields in single photon states and superposition of coherent states using non-Markovian embeddings. Quantum Information Processing, 2013, 12, 1469-1499.	2.2	36
12	Quantum Flows as Markovian Limit of Emission, Absorption and Scattering Interactions. Communications in Mathematical Physics, 2005, 254, 489-512.	2.2	34
13	Heisenberg picture approach to the stability of quantum Markov systems. Journal of Mathematical Physics, 2014, 55, 062701.	1.1	30
14	The Kalman Decomposition for Linear Quantum Systems. IEEE Transactions on Automatic Control, 2018, 63, 331-346.	5.7	26
15	Quantum Stratonovich calculus and the quantum Wong-Zakai theorem. Journal of Mathematical Physics, 2006, 47, 113509.	1.1	24
16	Singular Perturbation of Quantum Stochastic Differential Equations with Coupling Through an Oscillator Mode. Journal of Statistical Physics, 2007, 127, 575-607.	1.2	24
17	Stochastic SchrÃ¶dinger Equations as Limit of Discrete Filtering. Open Systems and Information Dynamics, 2004, 11, 235-255.	1.2	22
18	Commutativity of the adiabatic elimination limit of fast oscillatory components and the instantaneous feedback limit in quantum feedback networks. Journal of Mathematical Physics, 2010, 51, .	1.1	22

#	ARTICLE	IF	CITATIONS
19	Quantum trajectories for a class of continuous matrix product input states. <i>New Journal of Physics</i> , 2014, 16, 075008.	2.9	22
20	Principles and applications of quantum control engineering. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2012, 370, 5241-5258.	3.4	19
21	Single photon quantum filtering using non-Markovian embeddings. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2012, 370, 5408-5421.	3.4	18
22	Generating nonclassical quantum input field states with modulating filters. <i>EPJ Quantum Technology</i> , 2015, 2, .	6.3	18
23	Construction of bilinear control Hamiltonians using the series product and quantum feedback. <i>Physical Review A</i> , 2008, 78, .	2.5	14
24	Asymptotic stochastic transformations for nonlinear quantum dynamical systems. <i>Reports on Mathematical Physics</i> , 1999, 44, 313-338.	0.8	13
25	Coherent feedback control in quantum transport. <i>Physical Review B</i> , 2014, 90, .	3.2	13
26	Noether's theorem for dissipative quantum dynamical semi-groups. <i>Journal of Mathematical Physics</i> , 2015, 56, 022108.	1.1	13
27	Causal structure of quantum stochastic integrators. <i>Theoretical and Mathematical Physics (Russian)</i> Tj ETQq1 1 0.784314 rgBT /Overl 0.9 12	0.9	12
28	Holevo-Ordering and the Continuous-Time Limit for Open Floquet Dynamics. <i>Letters in Mathematical Physics</i> , 2004, 67, 207-221.	1.1	12
29	Quantum master equation and filter for systems driven by fields in a single photon state. , 2011, , .		11
30	Continuous measurement of canonical observables and limit stochastic Schrödinger equations. <i>Physical Review A</i> , 2004, 69, .	2.5	10
31	Quantum control and information processing. <i>Quantum Information Processing</i> , 2013, 12, 1397-1415.	2.2	10
32	Feedback network models for quantum transport. <i>Physical Review E</i> , 2014, 90, 062109.	2.1	10
33	The Stratonovich Interpretation of Quantum Stochastic Approximations. , 1999, 11, 213-233.		9
34	Feynman, Wigner, and Hamiltonian structures describing the dynamics of open quantum systems. <i>Doklady Mathematics</i> , 2014, 89, 68-71.	0.6	9
35	Quantum anomalies and logarithmic derivatives of feynman pseudomeasures. <i>Doklady Mathematics</i> , 2015, 92, 764-768.	0.6	9
36	Belavkin filtering with squeezed light sources. <i>Russian Journal of Mathematical Physics</i> , 2016, 23, 172-184.	1.5	9

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37	On structure-preserving transformations of the Itô-generator matrix for model reduction of quantum feedback networks. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2012, 370, 5422-5436.	3.4	8
38	Mathematical models of Markovian dephasing. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 385301.	2.1	8
39	A new approach to non-commutative white noise analysis. Comptes Rendus Mathematique, 1998, 326, 981-985.	0.5	6
40	Principles and applications of quantum control engineering. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2012, 370, 5239-5240.	3.4	6
41	Can quantum Markov evolutions ever be dynamically decoupled?. , 2017, , .		6
42	THE LARGE DEVIATION PRINCIPLE FOR MEASURES WITH RANDOM WEIGHTS. Reviews in Mathematical Physics, 1993, 05, 659-692.	1.7	5
43	The Global versus Local Hamiltonian Description of Quantum Input-Output Theory. Open Systems and Information Dynamics, 2015, 22, 1550009.	1.2	5
44	Wigner measures and quantum control. Doklady Mathematics, 2015, 91, 199-203.	0.6	5
45	The interacting-free quantum stochastic limit of quantum field theory. Journal of Mathematical Physics, 1997, 38, 867-881.	1.1	4
46	Randomized Hamiltonian Feynman integrals and Schrödinger-Itô stochastic equations. Izvestiya Mathematics, 2005, 69, 1081-1098.	0.6	4
47	The Free Stochastic Limit of Interacting Quantum Fields. Infinite Dimensional Analysis, Quantum Probability and Related Topics, 1998, 01, 439-454.	0.5	3
48	Dissipative canonical flows in classical and quantum mechanics. Journal of Mathematical Physics, 1999, 40, 2805-2815.	1.1	3
49	QUANTUM MARKOVIAN APPROXIMATIONS FOR FERMIONIC RESERVOIRS. Infinite Dimensional Analysis, Quantum Probability and Related Topics, 2005, 08, 453-471.	0.5	3
50	Scattering processes in quantum optics. Physical Review A, 2015, 91, .	2.5	3
51	Non-Markovian quantum feedback networks I: Quantum transmission lines, lossless bounded real property and limit Markovian channels. Journal of Mathematical Physics, 2016, 57, 122101.	1.1	3
52	Quantum Trajectories for Squeezed Input Processes: Explicit Solutions. Open Systems and Information Dynamics, 2016, 23, 1650004.	1.2	3
53	The series product for gaussian quantum input processes. Reports on Mathematical Physics, 2017, 79, 111-133.	0.8	3
54	Non-Markovian quantum feedback networks II: Controlled flows. Journal of Mathematical Physics, 2017, 58, 063517.	1.1	3

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55	The Kalman decomposition for Linear Quantum Stochastic Systems. , 2017, , .		3
56	Asymptotic equivalence of quantum stochastic models. Journal of Mathematical Physics, 2019, 60, .	1.1	3
57	Quantum filtering for systems driven by fermion fields. Communications in Information and Systems, 2011, 11, 237-268.	0.5	3
58	Non-abelian Weyl commutation relations and the series product of quantum stochastic evolutions. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2012, 370, 5437-5451.	3.4	2
59	Zeno dynamics for open quantum systems. Russian Journal of Mathematical Physics, 2014, 21, 337-347.	1.5	2
60	Feynman diagrams and the quantum stochastic calculus. , 0, , .		2
61	Quantum stochastic Feynman rules and extended Wigner statistics. Journal of Physics A, 1998, 31, 2021-2030.	1.6	1
62	THE OPEN XY MODEL. Infinite Dimensional Analysis, Quantum Probability and Related Topics, 2004, 07, 473-483.	0.5	1
63	Linear quantum feedback networks with squeezing components. , 2009, , .		1
64	Symplectic Noise and the Classical Analog of the Lindblad Generator. Journal of Statistical Physics, 2015, 160, 1709-1720.	1.2	1
65	A Trotter-Kato theorem for quantum Markov limits. EPJ Quantum Technology, 2015, 2, .	6.3	1
66	Characteristic operator functions for quantum input-plant-output models and coherent control. Journal of Mathematical Physics, 2015, 56, 013506.	1.1	1
67	Classical and quantum stochastic models of resistive and memristive circuits. Journal of Mathematical Physics, 2017, 58, 073505.	1.1	1
68	Quantum feedback networks with uniform time delays. , 2017, , .		1
69	The Gisin-Percival stochastic Schrödinger equation from standard quantum filtering theory. Journal of Mathematical Physics, 2018, 59, .	1.1	1
70	Quantum Anomalies via Differential Properties of Lebesgue-“Feynman Generalized Measures. Proceedings of the Steklov Institute of Mathematics, 2020, 310, 98-107.	0.3	1
71	Quantum covariance and filtering. Annual Reviews in Control, 2022, 54, 262-273.	7.9	1
72	Bosonic and fermionic white noises and the reflection process. Theoretical and Mathematical Physics(Russian Federation), 2000, 124, 887-896.	0.9	0

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73	The bellman quantum equation. Doklady Mathematics, 2006, 74, 589-591.	0.6	0
74	Quantum behaviors and networks. , 2008, , .		0
75	Special issue on quantum control and information processing. Quantum Information Processing, 2013, 12, 1395-1396.	2.2	0
76	Stability of quantum Markov systems via Lyapunov methods in the Heisenberg picture. , 2013, , .		0
77	The Stratonovich formulation of quantum feedback network rules. Journal of Mathematical Physics, 2016, 57, 123505.	1.1	0
78	The Estimation Lie Algebra Associated with Quantum Filters. Open Systems and Information Dynamics, 2019, 26, 1950004.	1.2	0