Irina T Basieva

List of Publications by Year
in descending order

73	1,256	304743	395702
papers	citations	22 h-index	33 g-index

74	74	74	287
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Quantum-like model of brain's functioning: Decision making from decoherence. Journal of Theoretical Biology, 2011, 281, 56-64.	1.7	121
2	Quantum Models for Psychological Measurements: An Unsolved Problem. PLoS ONE, 2014, 9, e110909.	2.5	93
3	Quantum-like dynamics of decision-making. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 2083-2099.	2.6	67
4	Quantum Information Biology: From Information Interpretation of Quantum Mechanics to Applications in Molecular Biology and Cognitive Psychology. Foundations of Physics, 2015, 45, 1362-1378.	1.3	50
5	A quantum-like model of selection behavior. Journal of Mathematical Psychology, 2017, 78, 2-12.	1.8	44
6	Quantum probability in decision making from quantum information representation of neuronal states. Scientific Reports, 2018, 8, 16225.	3.3	43
7	On Application of Gorini-Kossakowski-Sudarshan-Lindblad Equation in Cognitive Psychology. Open Systems and Information Dynamics, 2011, 18, 55-69.	1.2	42
8	True contextuality beats direct influences in human decision making.. Journal of Experimental Psychology: General, 2019, 148, 1925-1937.	2.1	42
9	Possibility to agree on disagree from quantum information and decision making. Journal of Mathematical Psychology, 2014, 62-63, 1-15.	1.8	41
10	Quantum-like generalization of the Bayesian updating scheme for objective and subjective mental uncertainties. Journal of Mathematical Psychology, 2012, 56, 166-175.	1.8	39
11	Quantum-like model for the adaptive dynamics of the genetic regulation of E. coliâ€™s metabolism of glucose/lactose. Systems and Synthetic Biology, 2012, 6, 1-7.	1.0	37
12	A model of epigenetic evolution based on theory of open quantum systems. Systems and Synthetic Biology, 2013, 7, 161-173.	1.0	37
13	Non-Kolmogorovian Approach to the Context-Dependent Systems Breaking the Classical Probability Law. Foundations of Physics, 2013, 43, 895-911.	1.3	35
14	Quantum probability updating from zero priors (by-passing Cromwellâ€™s rule). Journal of Mathematical Psychology, 2017, 77, 58-69.	1.8	34
15	Quantum field inspired model of decision making: Asymptotic stabilization of belief state via interaction with surrounding mental environment. Journal of Mathematical Psychology, 2018, 82, 159-168.	1.8	32
16	Quantum like modeling of decision making: Quantifying uncertainty with the aid of Heisenbergâ€“Robertson inequality. Journal of Mathematical Psychology, 2018, 84, 49-56.	1.8	31
17	Quantum Model for Psychological Measurements: From the Projection Postulate to Interference of Mental Observables Represented As Positive Operator Valued Measures. NeuroQuantology, 2014, 12, .	0.2	30
18	Quantum-like interference effect in gene expression: glucose-lactose destructive interference. Systems and Synthetic Biology, 2011, 5, 59-68.	1.0	29

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19	Applying quantum principles to psychology. Physica Scripta, 2014, T163, 014007.	2.5	28
20	Quantum-like model of subjective expected utility. Journal of Mathematical Economics, 2018, 78, 150-162.	0.8	27
21	Quantum-like model of diauxie in Escherichia coli: Operational description of precultivation effect. Journal of Theoretical Biology, 2012, 314, 130-137.	1.7	26
22	Quantum-like modeling in biology with open quantum systems and instruments. BioSystems, 2021, 201, 104328.	2.0	25
23	Quantum-like dynamics applied to cognition: a consideration of available options. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160387.	3.4	22
24	A model of differentiation in quantum bioinformatics. Progress in Biophysics and Molecular Biology, 2017, 130, 88-98.	2.9	21
25	Cooperative quenching: experiment, theory and Monte-Carlo computer simulation. Journal of Luminescence, 2001, 94-95, 349-354.	3.1	20
26	On the equivalence of the Clauserâ€“Horne and Eberhard inequality based tests. Physica Scripta, 2014, T163, 014019.	2.5	18
27	On the Possibility to Combine the Order Effect with Sequential Reproducibility for Quantum Measurements. Foundations of Physics, 2015, 45, 1379-1393.	1.3	18
28	Information overload for (bounded) rational agents. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20202957.	2.6	15
29	Quantum-Like Representation Algorithm for Trichotomous Observables. International Journal of Theoretical Physics, 2011, 50, 3864-3881.	1.2	11
30	Towards Experiments to Test Violation of the Original Bell Inequality. Entropy, 2018, 20, 280.	2.2	10
31	Cooperative quenching kinetics:Theory and Monte-Carlo simulation. JETP Letters, 2001, 74, 539-542.	1.4	9
32	Cooperative quenching kinetics: Computer simulation and analytical solution. Chemical Physics Letters, 2006, 432, 367-370.	2.6	9
33	Towards modeling of epigenetic evolution with the aid of theory of open quantum systems. , 2012, , .		9
34	Experimental preparation of entangled Bellâ€™s vacuumâ€“single exciton and vacuumâ€“biexciton states for pair centers of neodymium ions in a crystal. Optics Communications, 2006, 259, 298-303.	2.1	8
35	Two- and three-dimensional restricted geometry case of luminescence quenching. Journal of Luminescence, 2010, 130, 2305-2308.	3.1	8
36	Quantum-like dynamics of decision-making in prisoner's dilemma game. , 2012, , .		8

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37	Pre-selection of optical transitions in rare-earth ions in crystals perspective for quantum information processing. Journal of Modern Optics, 2012, 59, 166-178.	1.3	8
38	Quantum control of exciton states in clusters of resonantly interacting fluorescent particles using biharmonic laser pumping. Physical Review B, 2006, 74, .	3.2	7
39	Luminescent nanophotonics and advanced solid state lasers. Journal of Luminescence, 2013, 133, 233-243.	3.1	7
40	Ambivalence in decision making: An eye tracking study. Cognitive Psychology, 2022, 134, 101464.	2.2	7
41	Theoretical analysis of the static quenching of optical excitations in luminescent nanoparticles. JETP Letters, 2010, 91, 236-240.	1.4	6
42	Luminescent nanophotonics, fluoride laser ceramics, and crystals. Physics-Uspekhi, 2011, 54, 1262-1268.	2.2	6
43	Decision-Making and Cognition Modeling from the Theory of Mental Instruments. , 2017, , 75-93.		6
44	State Entropy and Differentiation Phenomenon. Entropy, 2018, 20, 394.	2.2	6
45	What are the appropriate axioms of rationality for reasoning under uncertainty with resource-constrained systems?. Behavioral and Brain Sciences, 2020, 43, e2.	0.7	6
46	More Causes Less Effect: Destructive Interference in Decision Making. Entropy, 2022, 24, 725.	2.2	5
47	Quantum-like Representation of Bayesian Updating. , 2011, , .		4
48	Kinetics of ultrafast migration-accelerated quenching in nanoparticles. JETP Letters, 2011, 93, 697-700.	1.4	4
49	Representation of probabilistic data by complex probability amplitudes; the case of tripleâ€"valued observables. , 2011, , .		4
50	Quantum-like model of glucose effect on Escherichia coli growth. , 2012, , .		4
51	Observables generalizing positive operator valued measures. AIP Conference Proceedings, 2012, , .	0.4	4
52	Dynamics of Entropy in Quantum-like Model of Decision Making. , 2011, , .		3
53	Cooperative luminescence quenching on many-particle acceptors in disordered media. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 3526-3532.	2.6	3
54	Complementarity of Mental Observables. Topics in Cognitive Science, 2014, 6, 74-78.	1.9	3

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55	The triple-store experiment: a first simultaneous test of classical and quantum probabilities in choice over menus. Theory and Decision, 0, , 1.	1.0	3
56	Quantum(-Like) Decision Making: On Validity of the Aumann Theorem. Lecture Notes in Computer Science, 2015, , 105-118.	1.3	3
57	Adaptive Dynamics and Its Application to Context Dependent Systems Breaking the Classical Probability Law. Lecture Notes in Computer Science, 2012, , 160-171.	1.3	3
58	Coherent fluorescence resonance energy transfer in symmetrical clusters of fluorescent centers. Chemical Physics Letters, 2005, 402, 433-438.	2.6	2
59	Quantum Information Biology: From Theory of Open Quantum Systems to Adaptive Dynamics. Advanced Series on Mathematical Psychology, 2016, , 399-414.	0.7	2
60	Quantum-Like Paradigm: From Molecular Biology to Cognitive Psychology. Lecture Notes in Computer Science, 2011, , 182-191.	1.3	2
61	Double blinding-attack on entanglement-based quantum key distribution protocols. , 2012, , .		1
62	Decay times of radiative and non-radiative transitions in rare-earth ions. Physica Scripta, 2014, T163, 014032.	2.5	1
63	Static cooperative luminescence quenching in nanoparticles. Journal of Luminescence, 2014, 151, 88-92.	3.1	1
64	Perspectives on Correctness in Probabilistic Inference from Psychology. Spanish Journal of Psychology, 2019, 22, E55.	2.1	1
65	Testing Boundaries of Applicability of Quantum Probabilistic Formalism to Modeling of Cognition: Metaphors of Two and Three Slit Experiments. Lecture Notes in Computer Science, 2017, , 49-56.	1.3	1
66	Quantum-Like Representation of Irrational Inference. Lecture Notes in Computer Science, 2012, , 138-147.	1.3	1
67	Using biharmonic laser pumping for preparation of pure and entangled multiexciton states in clusters of resonantly interacting fluorescent centres. Journal of Luminescence, 2007, 127, 48-54.	3.1	0
68	Theoretical method for states dynamics and entanglement optimization in bichromatically driven clusters of two and four resonantly interacting particles. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 1804.	2.1	0
69	Lamarckian Evolution of Epigenome from Open Quantum Systems and Entanglement. Lecture Notes in Computer Science, 2014, , 324-334.	1.3	0
70	Quantum-State Dynamics as Linear Representation of Classical (Nonlinear) Stochastic Dynamics. Journal of Russian Laser Research, 2014, 35, 71-78.	0.6	0
71	A MATHEMATICAL TREATMENT OF JOINT AND CONDITIONAL PROBABILITY. QP-PQ, Quantum Probability and White Noise Analysis, 2013, , 69-84.	0.1	0
72	ENTANGLED STATES PREPARATION IN CLUSTERS OF THREE RESONANTLY INTERACTING FLUORESCENT PARTICLES. QP-PQ, Quantum Probability and White Noise Analysis, 2013, , 85-94.	0.1	0

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73	Quantum(-like) Formalization of Common Knowledge: Binmore-Brandenburger Operator Approach. Lecture Notes in Computer Science, 2015, , 93-104.	1.3	0