

# Iannis K Kominis

## List of Publications by Year in descending order

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35  
papers

1,718  
citations

566801

15  
h-index

377514

34  
g-index

37  
all docs

37  
docs citations

37  
times ranked

1402  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum advantage in biometric authentication with single photons. <i>Journal of Applied Physics</i> , 2022, 131, 084401.	1.1	1
2	Spatially selective and quantum-statistics-limited light stimulus for retina biometrics and pupillometry. <i>Applied Physics B: Lasers and Optics</i> , 2020, 126, 1.	1.1	4
3	Quantum relative entropy shows singlet-triplet coherence is a resource in the radical-pair mechanism of biological magnetic sensing. <i>Physical Review Research</i> , 2020, 2, .	1.3	6
4	Algorithmic quantum heat engines. <i>Physical Review E</i> , 2019, 100, 012109.	0.8	15
5	Quantum trajectories in spin-exchange collisions reveal the nature of spin-noise correlations in multispecies alkali-metal vapors. <i>Physical Review Research</i> , 2019, 1, .	1.3	7
6	Quantum information processing in the radical-pair mechanism: Haberkorn's theory violates the Ozawa entropy bound. <i>Physical Review E</i> , 2017, 95, 022413.	0.8	5
7	High-order harmonics measured by the photon statistics of the infrared driving-field exiting the atomic medium. <i>Nature Communications</i> , 2017, 8, 15170.	5.8	39
8	Quantum-limited biochemical magnetometers designed using the Fisher information and quantum reaction control. <i>Physical Review A</i> , 2017, 95, .	1.0	8
9	Quantum Biometrics with Retinal Photon Counting. <i>Physical Review Applied</i> , 2017, 8, .	1.5	10
10	Revealing the properties of the radical-pair magnetoreceptor using pulsed photo-excitation timed with pulsed rf. <i>BioSystems</i> , 2016, 147, 35-39.	0.9	0
11	Quantum optical signatures in strong-field laser physics: Infrared photon counting in high-order-harmonic generation. <i>Scientific Reports</i> , 2016, 6, 32821.	1.6	30
12	Reply to the comment on "Quantum trajectory tests of radical-pair quantum dynamics in CIDNP measurements of photosynthetic reaction centers" by G. Jeschke. <i>Chemical Physics Letters</i> , 2016, 648, 204-207.	1.2	3
13	The radical-pair mechanism as a paradigm for the emerging science of quantum biology. <i>Modern Physics Letters B</i> , 2015, 29, 1530013.	1.0	23
14	Quantum trajectory tests of radical-pair quantum dynamics in CIDNP measurements of photosynthetic reaction centers. <i>Chemical Physics Letters</i> , 2015, 640, 40-45.	1.2	7
15	Quantum-optical nature of the recollision process in high-order-harmonic generation. <i>Physical Review A</i> , 2014, 89, .	1.0	7
16	Retrodictive derivation of the radical-ion-pair master equation and Monte Carlo simulation with single-molecule quantum trajectories. <i>Physical Review E</i> , 2014, 90, 042719.	0.8	11
17	Spin-noise correlations and spin-noise exchange driven by low-field spin-exchange collisions. <i>Physical Review A</i> , 2014, 90, .	1.0	19
18	Lamb shift in radical-ion pairs produces a singlet-triplet energy splitting in photosynthetic reaction centers. <i>European Physical Journal Plus</i> , 2014, 129, 1.	1.2	7

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19	Quantum measurement corrections to CIDNP in photosynthetic reaction centers. <i>New Journal of Physics</i> , 2013, 15, 075017.	1.2	17
20	Collision kernels from velocity-selective optical pumping with magnetic depolarization. <i>Physical Review A</i> , 2013, 87, .	1.0	5
21	Reactant-product quantum coherence in electron transfer reactions. <i>Physical Review E</i> , 2012, 86, 026111.	0.8	11
22	Magnetic sensitivity and entanglement dynamics of the chemical compass. <i>Chemical Physics Letters</i> , 2012, 542, 143-146.	1.2	22
23	Photon statistics as an experimental test discriminating between theories of spin-selective radical-ion-pair reactions. <i>Chemical Physics Letters</i> , 2012, 543, 170-172.	1.2	9
24	The quantum Zeno effect immunizes the avian compass against the deleterious effects of exchange and dipolar interactions. <i>BioSystems</i> , 2012, 107, 153-157.	0.9	28
25	Comment on "Spin-selective reactions of radical pairs act as quantum measurements" (Chemical Physics) Tj ETQq1 1 0.784314 14	1.2	14
26	Radical-ion-pair reactions are the biochemical equivalent of the optical double-slit experiment. <i>Physical Review E</i> , 2011, 83, 056118.	0.8	26
27	Coherent triplet excitation suppresses the heading error of the avian compass. <i>New Journal of Physics</i> , 2010, 12, 085016.	1.2	15
28	Quantum Zeno effect explains magnetic-sensitive radical-ion-pair reactions. <i>Physical Review E</i> , 2009, 80, 056115.	0.8	89
29	Quantum Zeno effect in atomic spin-exchange collisions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 4877-4879.	0.9	4
30	Sub-Shot-Noise Magnetometry with a Correlated Spin-Relaxation Dominated Alkali-Metal Vapor. <i>Physical Review Letters</i> , 2008, 100, 073002.	2.9	23
31	Quantum random number generator based on spin noise. <i>Physical Review A</i> , 2008, 77, .	1.0	17
32	Measurement of transverse spin-relaxation rates in a rubidium vapor by use of spin-noise spectroscopy. <i>Physical Review A</i> , 2007, 75, .	1.0	47
33	High Frequency Atomic Magnetometer by Use of Electromagnetically Induced Transparency. <i>Physical Review Letters</i> , 2006, 97, 230801.	2.9	19
34	A subfemtotesla multichannel atomic magnetometer. <i>Nature</i> , 2003, 422, 596-599.	18.7	1,161
35	Quantum Biometrics. , 0, , .		0