# Iannis K Kominis

List of Publications by Year
in descending order



| 35 | 1,718 | 566801 15 | 377514 34 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 37 | 37 | 37 | 1402 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A subfemtotesla multichannel atomic magnetometer. Nature, 2003, 422, 596-599. | 13.7 | 1,161 |
| 2 | Quantum Zeno effect explains magnetic-sensitive radical-ion-pair reactions. Physical Review E, 2009, 80, 056115. | 0.8 | 89 |
| 3 | Measurement of transverse spin-relaxation rates in a rubidium vapor by use of spin-noise spectroscopy. Physical Review A, 2007, 75, . | 1.0 | 47 |
| 4 | High-order harmonics measured by the photon statistics of the infrared driving-field exiting the atomic medium. Nature Communications, 2017, 8, 15170. | 5.8 | 39 |
| 5 | Quantum optical signatures in strong-field laser physics: Infrared photon counting in high-order-harmonic generation. Scientific Reports, 2016, 6, 32821. | 1.6 | 30 |
| 6 | The quantum Zeno effect immunizes the avian compass against the deleterious effects of exchange and dipolar interactions. BioSystems, 2012, 107, 153-157. | 0.9 | 28 |
| 7 | Radical-ion-pair reactions are the biochemical equivalent of the optical double-slit experiment. Physical Review E, 2011, 83, 056118. | 0.8 | 26 |
| 8 | Sub-Shot-Noise Magnetometry with a Correlated Spin-Relaxation Dominated Alkali-Metal Vapor. Physical Review Letters, 2008, 100, 073002. | 2.9 | 23 |
| 9 | The radical-pair mechanism as a paradigm for the emerging science of quantum biology. Modern Physics Letters B, 2015, 29, 1530013. | 1.0 | 23 |
| 10 | Magnetic sensitivity and entanglement dynamics of the chemical compass. Chemical Physics Letters, 2012, 542, 143-146. | 1.2 | 22 |
| 11 | High Frequency Atomic Magnetometer by Use of Electromagnetically Induced Transparency. Physical Review Letters, 2006, 97, 230801. | 2.9 | 19 |
| 12 | Spin-noise correlations and spin-noise exchange driven by low-field spin-exchange collisions. Physical Review A, 2014, 90, . | 1.0 | 19 |
| 13 | Quantum random number generator based on spin noise. Physical Review A, 2008, 77, . | 1.0 | 17 |
| 14 | Quantum measurement corrections to CIDNP in photosynthetic reaction centers. New Journal of Physics, 2013, 15, 075017. | 1.2 | 17 |
| 15 | Coherent triplet excitation suppresses the heading error of the avian compass. New Journal of Physics, 2010, 12, 085016. | 1.2 | 15 |
| 16 | Algorithmic quantum heat engines. Physical Review E, 2019, 100, 012109. | 0.8 | 15 |
| 17 | Comment on â€˜Spin-selective reactions of radical pairs act as quantum measurementsâ€™ (Chemical Physics) Tj ETQq1 1 0.784314 | 1.2 | 14 |
| 18 | Reactant-product quantum coherence in electron transfer reactions. Physical Review E, 2012, 86, 026111. | 0.8 | 11 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Retrodictive derivation of the radical-ion-pair master equation and Monte Carlo simulation with single-molecule quantum trajectories. Physical Review E, 2014, 90, 042719. | 0.8 | 11 |
| 20 | Quantum Biometrics with Retinal Photon Counting. Physical Review Applied, 2017, 8, . | 1.5 | 10 |
| 21 | Photon statistics as an experimental test discriminating between theories of spin-selective radicalâ€“ion-pair reactions. Chemical Physics Letters, 2012, 543, 170-172. | 1.2 | 9 |
| 22 | Quantum-limited biochemical magnetometers designed using the Fisher information and quantum reaction control. Physical Review A, 2017, 95, . | 1.0 | 8 |
| 23 | Quantum-optical nature of the recollision process in high-order-harmonic generation. Physical Review A, 2014, 89, . | 1.0 | 7 |
| 24 | Lamb shift in radical-ion pairs produces a singlet-triplet energy splitting in photosynthetic reaction centers. European Physical Journal Plus, 2014, 129, 1. | 1.2 | 7 |
| 25 | Quantum trajectory tests of radical-pair quantum dynamics in CIDNP measurements of photosynthetic reaction centers. Chemical Physics Letters, 2015, 640, 40-45. | 1.2 | 7 |
| 26 | Quantum trajectories in spin-exchange collisions reveal the nature of spin-noise correlations in multispecies alkali-metal vapors. Physical Review Research, 2019, 1, . | 1.3 | 7 |
| 27 | Quantum relative entropy shows singlet-triplet coherence is a resource in the radical-pair mechanism of biological magnetic sensing. Physical Review Research, 2020, 2, . | 1.3 | 6 |
| 28 | Collision kernels from velocity-selective optical pumping with magnetic depolarization. Physical Review A, 2013, 87, . | 1.0 | 5 |
| 29 | Quantum information processing in the radical-pair mechanism: Haberkorn's theory violates the Ozawa entropy bound. Physical Review E, 2017, 95, 022413. | 0.8 | 5 |
| 30 | Quantum Zeno effect in atomic spin-exchange collisions. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 4877-4879. | 0.9 | 4 |
| 31 | Spatially selective and quantum-statistics-limited light stimulus for retina biometrics and pupillometry. Applied Physics B: Lasers and Optics, 2020, 126, 1. | 1.1 | 4 |
| 32 | Reply to the comment on â€œQuantum trajectory tests of radical-pair quantum dynamics in CIDNP measurements of photosynthetic reaction centersâ€•by G. Jeschke. Chemical Physics Letters, 2016, 648, 204-207. | 1.2 | 3 |
| 33 | Quantum advantage in biometric authentication with single photons. Journal of Applied Physics, 2022, 131, 084401. | 1.1 | 1 |
| 34 | Revealing the properties of the radical-pair magnetoreceptor using pulsed photo-excitation timed with pulsed rf. BioSystems, 2016, 147, 35-39. | 0.9 | 0 |
| 35 | Quantum Biometrics. , 0, , . | | 0 |