

Konstantin E Dorfman

List of Publications by Citations

Source: <https://exaly.com/author-pdf/2376859/konstantin-e-dorfman-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

68

papers

1,682

citations

21

h-index

40

g-index

80

ext. papers

2,047

ext. citations

6.6

avg, IF

5.16

L-index

#	Paper	IF	Citations
68	Quantum heat engine power can be increased by noise-induced coherence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 15097-100	11.5	268
67	Photosynthetic reaction center as a quantum heat engine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 2746-51	11.5	192
66	Nonlinear optical signals and spectroscopy with quantum light. <i>Reviews of Modern Physics</i> , 2016 , 88,	40.5	150
65	Catching Conical Intersections in the Act: Monitoring Transient Electronic Coherences by Attosecond Stimulated X-Ray Raman Signals. <i>Physical Review Letters</i> , 2015 , 115, 193003	7.4	87
64	Simulating Coherent Multidimensional Spectroscopy of Nonadiabatic Molecular Processes: From the Infrared to the X-ray Regime. <i>Chemical Reviews</i> , 2017 , 117, 12165-12226	68.1	77
63	Quantum-coherence-enhanced surface plasmon amplification by stimulated emission of radiation. <i>Physical Review Letters</i> , 2013 , 111, 043601	7.4	68
62	Suppression of population transport and control of exciton distributions by entangled photons. <i>Nature Communications</i> , 2013 , 4, 1782	17.4	58
61	Entangled Two-Photon Absorption Spectroscopy. <i>Accounts of Chemical Research</i> , 2018 , 51, 2207-2214	24.3	52
60	Enhancing photovoltaic power by Fano-induced coherence. <i>Physical Review A</i> , 2011 , 84,	2.6	48
59	Roadmap on quantum light spectroscopy. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020 , 53, 072002	1.3	47
58	Time-resolved broadband Raman spectroscopies: a unified six-wave-mixing representation. <i>Journal of Chemical Physics</i> , 2013 , 139, 124113	3.9	47
57	Probing the Conical Intersection Dynamics of the RNA Base Uracil by UV-Pump Stimulated-Raman-Probe Signals; Ab Initio Simulations. <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 1172-1188	6.4	41
56	Efficiency at maximum power of a laser quantum heat engine enhanced by noise-induced coherence. <i>Physical Review E</i> , 2018 , 97, 042120	2.4	38
55	Broadband infrared and Raman probes of excited-state vibrational molecular dynamics: simulation protocols based on loop diagrams. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 12348-59	3.6	32
54	Monitoring Non-Adiabatic Dynamics of the RNA Base Uracil by UV-Pump-IR-Probe Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 1933-1942	6.4	32
53	Femtosecond stimulated Raman spectroscopy of the cyclobutane thymine dimer repair mechanism: a computational study. <i>Journal of the American Chemical Society</i> , 2014 , 136, 14801-10	16.4	28
52	Manipulation of two-photon-induced fluorescence spectra of chromophore aggregates with entangled photons: A simulation study. <i>Physical Review A</i> , 2012 , 86,	2.6	28

51	Time-, frequency-, and wavevector-resolved x-ray diffraction from single molecules. <i>Journal of Chemical Physics</i> , 2014 , 140, 204311	3.9	25
50	On the Resolution Limit of Femtosecond Stimulated Raman Spectroscopy: Modelling Fifth-Order Signals with Overlapping Pulses. <i>ChemPhysChem</i> , 2015 , 16, 3438-43	3.2	24
49	Stimulated Raman Spectroscopy with Entangled Light: Enhanced Resolution and Pathway Selection. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 2843-2849	6.4	23
48	Nonlinear spectroscopy with time- and frequency-gated photon counting: A superoperator diagrammatic approach. <i>Physical Review A</i> , 2012 , 86,	2.6	22
47	Coherent Raman Umklappscattering. <i>Laser Physics Letters</i> , 2011 , 8, 736-741	1.5	21
46	Multidimensional photon correlation spectroscopy of cavity polaritons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 1451-1456	11.5	17
45	Detecting electronic coherence by multidimensional broadband stimulated x-ray Raman signals. <i>Physical Review A</i> , 2015 , 92,	2.6	17
44	Quantum phase-sensitive diffraction and imaging using entangled photons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 11673-11678	11.5	14
43	Monitoring polariton dynamics in the LHCII photosynthetic antenna in a microcavity by two-photon coincidence counting. <i>Journal of Chemical Physics</i> , 2018 , 148, 074302	3.9	14
42	Multidimensional spectroscopy with entangled light: loop vs ladder delay scanning protocols. <i>New Journal of Physics</i> , 2014 , 16,	2.9	14
41	Three-dimensional attosecond resonant stimulated X-ray Raman spectroscopy of electronic excitations in core-ionized glycine. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 24323-31	3.6	14
40	Quantum-interference-controlled resonance profiles from lasing without inversion to photodetection. <i>Physical Review A</i> , 2011 , 84,	2.6	13
39	Photon coincidence counting in parametric down-conversion: Interference of field-matter quantum pathways. <i>Physical Review A</i> , 2012 , 86,	2.6	12
38	Stochastic Liouville equations for femtosecond stimulated Raman spectroscopy. <i>Journal of Chemical Physics</i> , 2015 , 142, 024115	3.9	10
37	Phase-controlled entanglement in a quantum-beat laser: application to quantum lithography. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011 , 44, 225504	1.3	10
36	Plasma-assisted coherent backscattering for standoff spectroscopy. <i>Optics Letters</i> , 2012 , 37, 987-9	3	10
35	Hong-Ou-Mandel interferometry and spectroscopy using entangled photons. <i>Communications Physics</i> , 2021 , 4,	5.4	10
34	Nonlinear light scattering in molecules triggered by an impulsive X-ray Raman process. <i>Physical Review A</i> , 2013 , 87, 53826	2.6	9

33	Increasing photocell power by quantum coherence induced by external source. <i>Physical Review A</i> , 2011 , 84,	2.6	9
32	Time-and-frequency-gated photon coincidence counting; a novel multidimensional spectroscopy tool. <i>Physica Scripta</i> , 2016 , 91, 083004	2.6	8
31	Nonlinear fluctuations and dissipation in matter revealed by quantum light. <i>Physical Review A</i> , 2015 , 91,	2.6	8
30	Enhancing photocell power by noise-induced coherence 2012 , 1,		8
29	Indistinguishability and correlations of photons generated by quantum emitters undergoing spectral diffusion. <i>Scientific Reports</i> , 2014 , 4, 3996	4.9	7
28	Coherent control of long-range photoinduced electron transfer by stimulated X-ray Raman processes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 10001-6	11.5	7
27	Probing electron-atom collision dynamics in gas plasma by high-order harmonic spectroscopy. <i>Optics Letters</i> , 2018 , 43, 1970-1973	3	6
26	Detecting electronic coherences by time-domain high-harmonic spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 9776-9781	11.5	6
25	Collective resonances in Λ (B): A QED study. <i>Physical Review A</i> , 2013 , 87,	2.6	5
24	Coherent control of the multiple wavelength lasing of N_2^+ : coherence transfer and beyond. <i>Optica</i> , 2021 , 8, 668	8.6	5
23	Monitoring Spontaneous Charge-Density Fluctuations by Single-Molecule Diffraction of Quantum Light. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 768-773	6.4	4
22	Photon-exchange induces optical nonlinearities in harmonic systems. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015 , 48, 065401	1.3	4
21	Multidimensional four-wave-mixing spectroscopy with squeezed light. <i>Applied Physics Letters</i> , 2020 , 116, 244001	3.4	4
20	Investigations of Molecular Optical Properties Using Quantum Light and Hong-Ou-Mandel Interferometry. <i>Journal of the American Chemical Society</i> , 2021 , 143, 9070-9081	16.4	4
19	Ultralow-power local laser control of the dimer density in alkali-metal vapors through photodesorption. <i>Applied Physics Letters</i> , 2012 , 101, 091107	3.4	3
18	Quantum interference and collisional dynamics in excited bound states revealed by time-resolved pump-high-harmonic-generation-probe spectroscopy. <i>Optics Express</i> , 2019 , 27, 7147-7159	3.3	3
17	Interferometric spectroscopy with quantum light: Revealing out-of-time-ordering correlators. <i>Journal of Chemical Physics</i> , 2021 , 154, 210901	3.9	3
16	Origin and universal structure of non-Gaussian statistics of Bose-Einstein condensate in a mesoscopic perfect gas. <i>Radiophysics and Quantum Electronics</i> , 2009 , 52, 422-434	0.7	2

15	Increasing Photovoltaic Power by Noise Induced Coherence Between Intermediate Band States 2013 , 1,		2
14	Quantum Thermodynamics of Photo and Solar Cells 2011 ,		2
13	Incoherent control of optical signals: Quantum-heat-engine approach. <i>Physical Review Research</i> , 2021 , 3,	3.9	2
12	Multidimensional four-wave mixing signals detected by quantum squeezed light. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	2
11	Evaluation of optical probe signals from nonequilibrium systems. <i>Physical Review A</i> , 2015 , 91,	2.6	1
10	Open planar Bragg waveguides for mode selection in quantum and classical amplifiers. <i>Laser Physics</i> , 2007 , 17, 665-671	1.2	1
9	Revealing topological phase in Pancharatnam-Berry metasurfaces using mesoscopic electrostatics. <i>Nanophotonics</i> , 2020 , 9, 4711-4718	6.3	1
8	Detection of photon statistics and multimode field correlations by Raman processes. <i>Journal of Chemical Physics</i> , 2021 , 154, 104116	3.9	1
7	Multi-wave mixing in the high harmonic regime: monitoring electronic dynamics. <i>Optics Express</i> , 2021 , 29, 4746-4754	3.3	1
6	Selective Elimination of Homogeneous Broadening by Multidimensional Spectroscopy in the Electromagnetically Induced Transparency Regime. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 5504-5509	6.4	1
5	Nonlinear spectroscopy of chromophore aggregates with entangled photon pulses. <i>EPJ Web of Conferences</i> , 2013 , 41, 12006	0.3	
4	Free-electron masers based on planar Bragg waveguides. <i>Technical Physics Letters</i> , 2009 , 35, 540-544	0.7	
3	A Non time Ordered Pulse Scanning Protocol for Multidimensional Spectroscopy with Entangled Light. <i>Springer Proceedings in Physics</i> , 2015 , 436-439	0.2	
2	Signatures of Conical Intersection Mediated Relaxation Dynamics in Time-Resolved Broadband Raman Detection. <i>Springer Proceedings in Physics</i> , 2015 , 419-423	0.2	
1	Light absorption by interacting atomic gas in quantum optical regime. <i>Journal of Chemical Physics</i> , 2021 , 155, 044105	3.9	