

Xiangdong Zhang

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/6092804/xiangdong-zhang-publications-by-year.pdf>

Version: 2024-04-10

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.

90 papers	1,221 citations	21 h-index	30 g-index
109 ext. papers	1,833 ext. citations	5.9 avg, IF	5.24 L-index

#	Paper	IF	Citations
90	Deep-learning-based quantum imaging using NOON states. <i>Journal of Physics Communications</i> , 2022 , 6, 035005	1.2	1
89	Fast quantum search of multiple vertices based on electric circuits. <i>Quantum Information Processing</i> , 2022 , 21, 1	1.6	1
88	Observation of Bloch oscillations dominated by effective anyonic particle statistics.. <i>Nature Communications</i> , 2022 , 13, 2392	17.4	1
87	High capacity topological coding based on nested vortex knots and links.. <i>Nature Communications</i> , 2022 , 13, 2705	17.4	2
86	Universally Optimal Verification of Entangled States with Nondemolition Measurements. <i>Physical Review Letters</i> , 2021 , 126, 090504	7.4	5
85	Optically Unstable Phase from Ion-Ion Interactions in an Erbium-Doped Crystal. <i>Physical Review Letters</i> , 2021 , 126, 110601	7.4	1
84	Nonlinear Amplification of Chirality in Self-Assembled Plasmonic Nanostructures. <i>ACS Nano</i> , 2021 , 15, 5715-5724	16.7	4
83	Experimental Observation of Higher-Order Topological Anderson Insulators. <i>Physical Review Letters</i> , 2021 , 126, 146802	7.4	21
82	Topological mode switching in modulated structures with dynamic encircling of an exceptional point. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2021 , 477, 20200766	2.4	2
81	Electromechanically reconfigurable optical nano-kirigami. <i>Nature Communications</i> , 2021 , 12, 1299	17.4	19
80	Electric-Circuit Realization of Fast Quantum Search. <i>Research</i> , 2021 , 2021, 9793071	7.8	4
79	Representation of total angular momentum states of beams through a four-parameter notation. <i>New Journal of Physics</i> , 2021 , 23, 083015	2.9	3
78	Optimization and robustness of the topological corner state in second-order topological photonic crystals. <i>Optics Express</i> , 2021 , 29, 30735-30750	3.3	3
77	Topologically protected vector edge states and polarization beam splitter by all-dielectric valley photonic crystal slabs. <i>New Journal of Physics</i> , 2021 , 23, 093026	2.9	1
76	Creation of electrical knots and observation of DNA topology. <i>New Journal of Physics</i> , 2021 , 23, 093045	2.9	2
75	Entanglement-Assisted Quantum Chiral Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 8591-8597	6.4	0
74	Observation of hybrid higher-order skin-topological effect in non-Hermitian topoelectrical circuits. <i>Nature Communications</i> , 2021 , 12, 7201	17.4	9

73	Topologically Protected Strong Coupling and Entanglement Between Distant Quantum Emitters. <i>Physical Review Applied</i> , 2020 , 14,	4.3	2
72	Cavity Quantum Electrodynamics with Second-Order Topological Corner State. <i>Laser and Photonics Reviews</i> , 2020 , 14, 1900425	8.3	31
71	Observation of Novel Robust Edge States in Dissipative Non-Hermitian Quantum Walks. <i>Laser and Photonics Reviews</i> , 2020 , 14, 2000092	8.3	5
70	Low-threshold topological nanolasers based on the second-order corner state. <i>Light: Science and Applications</i> , 2020 , 9, 109	16.7	69
69	Nanophotonic Polarization Routers Based on an Intelligent Algorithm. <i>Advanced Optical Materials</i> , 2020 , 8, 1902018	8.1	11
68	Vector Exceptional Points with Strong Superchiral Fields. <i>Physical Review Letters</i> , 2020 , 124, 083901	7.4	15
67	Entanglement-based quantum deep learning. <i>New Journal of Physics</i> , 2020 , 22, 033041	2.9	8
66	Locally distinguishing unextendible product bases by using entanglement efficiently. <i>Physical Review A</i> , 2020 , 101,	2.6	7
65	Fano-Enhanced Circular Dichroism in Deformable Stereo Metasurfaces. <i>Advanced Materials</i> , 2020 , 32, e1907077	24	47
64	Kirigami/origami: unfolding the new regime of advanced 3D microfabrication/nanofabrication with "folding". <i>Light: Science and Applications</i> , 2020 , 9, 75	16.7	58
63	Simulate Deutsch-Jozsa algorithm with metamaterials. <i>Optics Express</i> , 2020 , 28, 16230-16243	3.3	4
62	Topologically protected long-range coherent energy transfer. <i>Photonics Research</i> , 2020 , 8, B39	6	4
61	Strongly Enhanced Raman Optical Activity of Chiral Molecules by Vector Exceptional Points. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 24970-24977	3.8	1
60	Strong superchiral fields and an ultrasensitive chiral sensor of biomolecules based on a dielectric photonic crystal slab with air holes. <i>Physical Review A</i> , 2020 , 102,	2.6	3
59	Creation of acoustic vortex knots. <i>Nature Communications</i> , 2020 , 11, 3956	17.4	9
58	Topoelectrical-circuit realization of a four-dimensional hexadecapole insulator. <i>Physical Review B</i> , 2020 , 102,	3.3	14
57	Efficient verification of quantum processes. <i>Physical Review A</i> , 2020 , 101,	2.6	13
56	Topological states in amorphous magnetic photonic lattices. <i>Physical Review B</i> , 2019 , 99,	3.3	19

55	Backscattering-Immune Computing of Spatial Differentiation by Nonreciprocal Plasmonics. <i>Physical Review Applied</i> , 2019 , 11,	4.3	16
54	Photocontrollable Chiral Switching and Selection in Self-Assembled Plasmonic Nanostructure. <i>Advanced Functional Materials</i> , 2019 , 29, 1900587	15.6	15
53	Tailoring exceptional points with one-dimensional graphene-embedded photonic crystals. <i>Scientific Reports</i> , 2019 , 9, 5551	4.9	7
52	Experimental observation of classical analogy of topological entanglement entropy. <i>Nature Communications</i> , 2019 , 10, 1557	17.4	3
51	Long-lived quantum speedup based on plasmonic hot spot systems. <i>New Journal of Physics</i> , 2019 , 21, 053034	2.9	5
50	Tunable topological valley transport in two-dimensional photonic crystals. <i>New Journal of Physics</i> , 2019 , 21, 093020	2.9	10
49	Efficient Verification of Dicke States. <i>Physical Review Applied</i> , 2019 , 12,	4.3	19
48	Coherence Depletion in Quantum Algorithms. <i>Entropy</i> , 2019 , 21,	2.8	1
47	Ultrasmall Optical Vortex Knots Generated by Spin-Selective Metasurface Holograms. <i>Advanced Optical Materials</i> , 2019 , 7, 1900263	8.1	17
46	State-independent contextuality in classical light. <i>Scientific Reports</i> , 2019 , 9, 17038	4.9	1
45	Enhanced optical squeezing from quasi-bound states in the continuum and Fano resonances without nonlinearity. <i>New Journal of Physics</i> , 2019 , 21, 123050	2.9	3
44	Topoelectrical circuit octupole insulator with topologically protected corner states. <i>Physical Review B</i> , 2019 , 100,	3.3	48
43	Implementation of quantum permutation algorithm with classical light. <i>Journal of Physics Communications</i> , 2019 , 3, 015008	1.2	1
42	Experimental observation of the Leggett-Garg inequality violation in classical light. <i>Journal of Optics (United Kingdom)</i> , 2019 , 21, 015605	1.7	4
41	Experimental High-Dimensional Einstein-Podolsky-Rosen Steering. <i>Physical Review Letters</i> , 2018 , 120, 030401	7.4	18
40	Reconfigurable topological phases in photoexcited graphene nanoribbon arrays. <i>Journal of Optics (United Kingdom)</i> , 2018 , 20, 095005	1.7	0
39	Implementing Quantum Search Algorithm with Metamaterials. <i>Advanced Materials</i> , 2018 , 30, 1703986	24	30
38	Discovering the forbidden Raman modes at the edges of layered materials. <i>Science Advances</i> , 2018 , 4, eaau6252	14.3	26

37	Experimental Observation of Topologically Protected Bound States with Vanishing Chern Numbers in a Two-Dimensional Quantum Walk. <i>Physical Review Letters</i> , 2018 , 121, 100501	7.4	28
36	Engineering topological edge states in two dimensional magnetic photonic crystal. <i>Applied Physics Letters</i> , 2017 , 110, 021109	3.4	14
35	Amplification of the molecular chiroptical effect by low-loss dielectric nanoantennas. <i>Nanoscale</i> , 2017 , 9, 5701-5707	7.7	23
34	Ultrafast coherent energy transfer with high efficiency based on plasmonic nanostructures. <i>Journal of Chemical Physics</i> , 2017 , 146, 144101	3.9	5
33	Recognition of chiral zwitterionic interactions at nanoscale interfaces by chiropasmonic nanosensors. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 21401-21406	3.6	7
32	Experimental contextuality in classical light. <i>Scientific Reports</i> , 2017 , 7, 44467	4.9	7
31	A giant chiroptical effect caused by the electric quadrupole. <i>Nanoscale</i> , 2017 , 9, 5110-5118	7.7	14
30	Surface-Enhanced Circular Dichroism of Oriented Chiral Molecules by Plasmonic Nanostructures. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 666-675	3.8	25
29	Tailoring Eigenmodes at Spectral Singularities in Graphene-based PT Systems. <i>Scientific Reports</i> , 2017 , 7, 11407	4.9	15
28	Quantum sensing of noises in one and two dimensional quantum walks. <i>Scientific Reports</i> , 2017 , 7, 4962	4.9	7
27	Multimode quantum states with single photons carrying orbital angular momentum. <i>Scientific Reports</i> , 2017 , 7, 3601	4.9	3
26	Improved third-order nonlinear effect in graphene based on bound states in the continuum. <i>Photonics Research</i> , 2017 , 5, 629	6	25
25	Three-dimensional vector wave bound states in a continuum. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017 , 34, 559	1.7	10
24	Simultaneously giant enhancement of F�ster resonance energy transfer rate and efficiency based on plasmonic excitations. <i>Physical Review B</i> , 2016 , 94,	3.3	24
23	Strongly Enhanced Raman Optical Activity in Molecules by Magnetic Response of Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 14795-14804	3.8	24
22	Unusual quantum Talbot effect based on the orbital angular momentum of photons. <i>Physical Review A</i> , 2016 , 93,	2.6	3
21	The defect-induced localization in many positions of the quantum random walk. <i>Scientific Reports</i> , 2016 , 6, 25767	4.9	10
20	Probing thermal expansion coefficients of monolayers using surface enhanced Raman scattering. <i>RSC Advances</i> , 2016 , 6, 99053-99059	3.7	18

19	Tunable multi-qubit quantum phase gates with high fidelity based on graphene wrapped particle. <i>AIP Advances</i> , 2016 , 6, 115007	1.5	1
18	Solving constant-coefficient differential equations with dielectric metamaterials. <i>Journal of Optics (United Kingdom)</i> , 2016 , 18, 075102	1.7	24
17	Realization of optimized quantum controlled-logic gate based on the orbital angular momentum of light. <i>Optics Express</i> , 2016 , 24, 8186-93	3.3	9
16	Extraordinary behaviors in a two-dimensional decoherent alternative quantum walk. <i>Physical Review A</i> , 2016 , 94,	2.6	10
15	Ultrasensitive optical absorption in graphene based on bound states in the continuum. <i>Scientific Reports</i> , 2015 , 5, 8266	4.9	53
14	Protected quantum-state transfer in decoherence-free subspaces. <i>Physical Review A</i> , 2015 , 91,	2.6	27
13	Non-local classical optical correlation and implementing analogy of quantum teleportation. <i>Scientific Reports</i> , 2015 , 5, 9175	4.9	24
12	Multifrequency multi-qubit entanglement based on plasmonic hot spots. <i>Scientific Reports</i> , 2015 , 5, 139419	4.9	14
11	Plasmon-induced strong interaction between chiral molecules and orbital angular momentum of light. <i>Scientific Reports</i> , 2015 , 5, 18003	4.9	29
10	Bell's measure and implementing quantum Fourier transform with orbital angular momentum of classical light. <i>Scientific Reports</i> , 2015 , 5, 14113	4.9	19
9	Plasmonic polymers with strong chiroptical response for sensing molecular chirality. <i>Nanoscale</i> , 2015 , 7, 10690-8	7.7	14
8	Classical hypercorrelation and wave-optics analogy of quantum superdense coding. <i>Scientific Reports</i> , 2015 , 5, 18574	4.9	7
7	Experimental Observation of Giant Chiroptical Amplification of Small Chiral Molecules by Gold Nanosphere Clusters. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 9690-9695	3.8	60
6	Cloaking and illusion of quantum imaging with entangled photon pairs. <i>Journal of Modern Optics</i> , 2014 , 61, 1665-1669	1.1	
5	Competition of Chiroptical Effect Caused by Nanostructure and Chiral Molecules. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 20529-20537	3.8	29
4	Spin-based second-harmonic generation by metal nanoparticles. <i>Physical Review A</i> , 2013 , 88,	2.6	4
3	Electric-Circuit Simulation of Quantum Fast Hitting with Exponential Speedup. <i>Advanced Quantum Technologies</i> , 2100143	4.3	3
2	Superchiral fields generated by nanostructures and their applications for chiral sensing. <i>Chinese Physics B</i> ,	1.2	2

1

Nearly Perfect Transmission and Transformation of Entangled States in Topologically Protected Channels. *Laser and Photonics Reviews*,2100519

8.3

o