Yu-Ming He

List of Publications by Year
in descending order

23 papers	3,164 citations	394421 19 h-index	713466 21 g-index
23 all docs	23 docs citations	23 times ranked	3791 citing authors

#	Article	IF	Citations
1	Single quantum emitters in monolayer semiconductors. Nature Nanotechnology, 2015, 10, 497-502.	31.5	749
2	On-demand semiconductor single-photon source with near-unity indistinguishability. Nature Nanotechnology, 2013, 8, 213-217.	31.5	444
3	High-efficiency multiphoton boson sampling. Nature Photonics, 2017, 11, 361-365.	31.4	330
4	Boson Sampling with 20 Input Photons and a 60-Mode Interferometer in a<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>1</mml:mn><mml:msup><mml:mn>0</mml:mn><mml:mn>14</mml:mn></mml:msup></mml:math>-Dimer Hilbert Space. Physical Review Letters, 2019, 123, 250503.	7.8	313
5	Towards optimal single-photon sources from polarized microcavities. Nature Photonics, 2019, 13, 770-775.	31.4	290
6	12-Photon Entanglement and Scalable Scattershot Boson Sampling with Optimal Entangled-Photon Pairs from Parametric Down-Conversion. Physical Review Letters, 2018, 121, 250505.	7.8	249
7	Highly indistinguishable on-demand resonance fluorescence photons from a deterministic quantum dot micropillar device with 74% extraction efficiency. Optics Express, 2016, 24, 8539.	3.4	143
8	Deterministic and Robust Generation of Single Photons from a Single Quantum Dot with 99.5% Indistinguishability Using Adiabatic Rapid Passage. Nano Letters, 2014, 14, 6515-6519.	9.1	129
9	Cascaded emission of single photons from the biexciton in monolayered WSe2. Nature Communications, 2016, 7, 13409.	12.8	86
10	Deterministic implementation of a bright, on-demand single-photon source with near-unity indistinguishability via quantum dot imaging. Optica, 2017, 4, 802.	9.3	63
11	Indistinguishable Tunable Single Photons Emitted by Spin-Flip Raman Transitions in InGaAs Quantum Dots. Physical Review Letters, 2013, 111, 237403.	7.8	60
12	Coherently driving a single quantum two-level system with dichromatic laser pulses. Nature Physics, 2019, 15, 941-946.	16.7	58
13	Quantum Interference between Light Sources Separated by 150 Million Kilometers. Physical Review Letters, 2019, 123, 080401.	7.8	57
14	Temperature-Dependent Mollow Triplet Spectra from a Single Quantum Dot: Rabi Frequency Renormalization and Sideband Linewidth Insensitivity. Physical Review Letters, 2014, 113, 097401.	7.8	48
15	Quantum State Transfer from a Single Photon to a Distant Quantum-Dot Electron Spin. Physical Review Letters, 2017, 119, 060501.	7.8	35
16	Substrate engineering for high-quality emission of free and localized excitons from atomic monolayers in hybrid architectures. Optica, 2017, 4, 669.	9.3	26
17	Observation of resonance fluorescence and the Mollow triplet from a coherently driven site-controlled quantum dot. Optica, 2015, 2, 1072.	9.3	22
18	Deterministic generation of bright single resonance fluorescence photons from a Purcell-enhanced quantum dot-micropillar system. Optics Express, 2015, 23, 32977.	3.4	22

#	Article	IF	Citations
19	Phonon induced line broadening and population of the dark exciton in a deeply trapped localized emitter in monolayer WSe_2. Optics Express, 2016, 24, 8066.	3.4	19
20	Intrinsic and environmental effects on the interference properties of a high-performance quantum dot single-photon source. Physical Review B, 2018, 97, .	3.2	19
21	Resonance fluorescence from an atomic-quantum-memory compatible single photon source based on GaAs droplet quantum dots. Applied Physics Letters, 2018, 113, 021102.	3.3	2
22	Quantum dot-micropillars: A bright source of coherent single photons. , 2016, , .		0
23	Strategies for bright single photon sources in solid state: Coupled quantum dot cavities and monolayer-based systems. , 2016, , .		0