Edward H Chen

List of Publications by Year
in descending order

28 papers	1,153 citations	516710 16 h-index	888059 17 g-index
28 all docs	28 docs citations	28 times ranked	1729 citing authors

#	Article	IF	Citations
1	Quantum nanophotonics in diamond [Invited]. Journal of the Optical Society of America B: Optical Physics, 2016, 33, B65.	2.1	178
2	Efficient Photon Collection from a Nitrogen Vacancy Center in a Circular Bullseye Grating. Nano Letters, 2015, 15, 1493-1497.	9.1	161
3	Coherent spin control of a nanocavity-enhanced qubit in diamond. Nature Communications, 2015, 6, 6173.	12.8	144
4	Wide-Field Multispectral Super-Resolution Imaging Using Spin-Dependent Fluorescence in Nanodiamonds. Nano Letters, 2013, 13, 2073-2077.	9.1	82
5	High-resolution optical spectroscopy using multimode interference in a compact tapered fibre. Nature Communications, 2015, 6, 7762.	12.8	76
6	Scalable Fabrication of High Purity Diamond Nanocrystals with Long-Spin-Coherence Nitrogen Vacancy Centers. Nano Letters, 2014, 14, 32-36.	9.1	75
7	Scalable Integration of Long-Lived Quantum Memories into a Photonic Circuit. Physical Review X, 2015, 5, .	8.9	74
8	Efficient photon coupling from a diamond nitrogen vacancy center by integration with silica fiber. Light: Science and Applications, 2016, 5, e16032-e16032.	16.6	66
9	High-sensitivity spin-based electrometry with an ensemble of nitrogen-vacancy centers in diamond. Physical Review A, 2017, 95, .	2.5	63
10	Surface Structure of Aerobically Oxidized Diamond Nanocrystals. Journal of Physical Chemistry C, 2014, 118, 26695-26702.	3.1	54
11	Generation of Ensembles of Individually Resolvable Nitrogen Vacancies Using Nanometer-Scale Apertures in Ultrahigh-Aspect Ratio Planar Implantation Masks. Nano Letters, 2015, 15, 1751-1758.	9.1	44
12	Calibrated Decoders for Experimental Quantum Error Correction. Physical Review Letters, 2022, 128, 110504.	7.8	29
13	Detuning Axis Pulsed Spectroscopy of Valley-Orbital States in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:mi>Si</mml:mi></mml:math> / <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:mi>Si</mml:mi></mml:math> - <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:mi>Ge</mml:mi>	3.8	26
14	Chirped circular dielectric gratings for near-unity collection efficiency from quantum emitters in bulk diamond. Optics Express, 2017, 25, 32420.	3.4	24
15	Diamond-nitrogen-vacancy electronic and nuclear spin-state anticrossings under weak transverse magnetic fields. Physical Review A, 2016, 94, .	2.5	21
16	One-dimensional photonic crystal cavities in single-crystal diamond. Photonics and Nanostructures - Fundamentals and Applications, 2015, 15, 130-136.	2.0	18
17	Waveguide-integrated photonic crystal spectrometer with camera readout. Applied Physics Letters, 2014, 105, 051103.	3.3	16
18	Targeted creation and Purcell enhancement of NV centers within photonic crystal cavities in single-crystal diamond. , 2014, , .		2

#	Article	IF	Citations
19	Publisher's Note: Diamond-nitrogen-vacancy electronic and nuclear spin-state anticrossings under weak transverse magnetic fields [Phys. Rev. A 94 , 021401(R) (2016)]. Physical Review A, 2016, 94, .	2.5	0
20	Top-Down, Scalable Fabrication of High Purity Fluorescent Nanodiamonds. , 2013, , .		0
21	Super-resolution imaging using spin-dependent fluorescence in bulk diamond. , 2013, , .		0
22	Wide-field multispectral super-resolution imaging using spin-dependent fluorescence in nanodiamonds. , 2013, , .		0
23	Fabrication of high-purity single-crystal diamond nano-slabs for photonic applications. , 2013, , .		0
24	Demonstration of a NV spin qubit interacting with a cavity mode in the Purcell regime. , 2014, , .		0
25	Deterministic Creation and Strong Purcell Enhancement of Long-lived Nitrogen-Vacancy Spin Qubits in Diamond Photonic Crystal Cavities. , 2014, , .		0
26	Implantation of proximal NV clusters in diamond by lithographically defined silicon masks with 5 nm resolution. , 2014, , .		0
27	Towards On-Chip Quantum Networks based on Spin Qubits in Diamond. , 2015, , .		0
28	Optimized scalable circular grating with efficient photon extraction for Nitrogen Vacancy centers in a bulk diamond. , 2015, , .		0