

Edward H Chen

List of Publications by Year in descending order

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28
papers

1,153
citations

516710

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888059

17
g-index

28
all docs

28
docs citations

28
times ranked

1729
citing authors

#	ARTICLE	IF	CITATIONS
1	Calibrated Decoders for Experimental Quantum Error Correction. Physical Review Letters, 2022, 128, 110504. Detuning Axis Pulsed Spectroscopy of Valley-Orbital States in Si/SiGe	7.8	29
2	High-sensitivity spin-based electrometry with an ensemble of nitrogen-vacancy centers in diamond. Physical Review A, 2017, 95, .	3.8	26
3	Chirped circular dielectric gratings for near-unity collection efficiency from quantum emitters in bulk diamond. Optics Express, 2017, 25, 32420.	2.5	63
4	Efficient photon coupling from a diamond nitrogen vacancy center by integration with silica fiber. Light: Science and Applications, 2016, 5, e16032-e16032.	3.4	24
5	Quantum nanophotonics in diamond [Invited]. Journal of the Optical Society of America B: Optical Physics, 2016, 33, B65.	16.6	66
6	Diamond-nitrogen-vacancy electronic and nuclear spin-state anticrossings under weak transverse magnetic fields. Physical Review A, 2016, 94, .	2.1	178
7	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	21
8	Scalable Integration of Long-Lived Quantum Memories into a Photonic Circuit. Physical Review X, 2015, 5, .	2.5	0
9	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.	8.9	74
10	Coherent spin control of a nanocavity-enhanced qubit in diamond. Nature Communications, 2015, 6, 6173.	9.1	44
11	High-resolution optical spectroscopy using multimode interference in a compact tapered fibre. Nature Communications, 2015, 6, 7762.	12.8	144
12	Efficient Photon Collection from a Nitrogen Vacancy Center in a Circular Bullseye Grating. Nano Letters, 2015, 15, 1493-1497.	12.8	76
13	One-dimensional photonic crystal cavities in single-crystal diamond. Photonics and Nanostructures - Fundamentals and Applications, 2015, 15, 130-136.	9.1	161
14	Towards On-Chip Quantum Networks based on Spin Qubits in Diamond. , 2015, , .	2.0	18
15	Optimized scalable circular grating with efficient photon extraction for Nitrogen Vacancy centers in a bulk diamond. , 2015, , .	0	0
16	Waveguide-integrated photonic crystal spectrometer with camera readout. Applied Physics Letters, 2014, 105, 051103.	3.3	16
17	Surface Structure of Aerobically Oxidized Diamond Nanocrystals. Journal of Physical Chemistry C, 2014, 118, 26695-26702.	3.1	54

#	ARTICLE	IF	CITATIONS
19	Scalable Fabrication of High Purity Diamond Nanocrystals with Long-Spin-Coherence Nitrogen Vacancy Centers. Nano Letters, 2014, 14, 32-36.	9.1	75
20	Targeted creation and Purcell enhancement of NV centers within photonic crystal cavities in single-crystal diamond. , 2014, , .		2
21	Demonstration of a NV spin qubit interacting with a cavity mode in the Purcell regime. , 2014, , .		0
22	Deterministic Creation and Strong Purcell Enhancement of Long-lived Nitrogen-Vacancy Spin Qubits in Diamond Photonic Crystal Cavities. , 2014, , .		0
23	Implantation of proximal NV clusters in diamond by lithographically defined silicon masks with 5 nm resolution. , 2014, , .		0
24	Wide-Field Multispectral Super-Resolution Imaging Using Spin-Dependent Fluorescence in Nanodiamonds. Nano Letters, 2013, 13, 2073-2077.	9.1	82
25	Top-Down, Scalable Fabrication of High Purity Fluorescent Nanodiamonds. , 2013, , .		0
26	Super-resolution imaging using spin-dependent fluorescence in bulk diamond. , 2013, , .		0
27	Wide-field multispectral super-resolution imaging using spin-dependent fluorescence in nanodiamonds. , 2013, , .		0
28	Fabrication of high-purity single-crystal diamond nano-slabs for photonic applications. , 2013, , .		0