

Hyochul Kim

List of Publications by Year in descending order

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41
papers

1,602
citations

430874

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377865

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docs citations

41
times ranked

2254
citing authors

#	ARTICLE	IF	CITATIONS
1	Direction control of colloidal quantum dot emission using dielectric metasurfaces. <i>Nanophotonics</i> , 2020, 9, 1023-1030.	6.0	8
2	A single-photon switch and transistor enabled by a solid-state quantum memory. <i>Science</i> , 2018, 361, 57-60.	12.6	137
3	Cavity-Enhanced Optical Readout of a Single Solid-State Spin. <i>Physical Review Applied</i> , 2018, 9, .	3.8	13
4	Metasurface electrode light emitting diodes with planar light control. <i>Scientific Reports</i> , 2017, 7, 14753.	3.3	10
5	Nanophotonic Spin-photon Quantum Transistor. , 2017, , .		0
6	Large Work Function Modulation of Monolayer MoS ₂ by Ambient Gases. <i>ACS Nano</i> , 2016, 10, 6100-6107.	14.6	188
7	A quantum phase switch between a single solid-state spin and a photon. <i>Nature Nanotechnology</i> , 2016, 11, 539-544.	31.5	129
8	Control of the cavity reflectivity using a single quantum dot spin. <i>Proceedings of SPIE</i> , 2015, , .	0.8	1
9	A Solid-State Spin-Photon Transistor. , 2015, , .		3
10	Resonant Interactions between a Mollow Triplet Sideband and a Strongly Coupled Cavity. <i>Physical Review Letters</i> , 2014, 113, 027403.	7.8	41
11	Far-field emission profiles from L3 photonic crystal cavity modes. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2013, 11, 37-47.	2.0	6
12	A quantum logic gate between a solid-state quantum bit and a photon. <i>Nature Photonics</i> , 2013, 7, 373-377.	31.4	138
13	Acousto-mechanical tuning of photonic crystal nanocavity modes. , 2013, , .		0
14	Strain tuning of a quantum dot strongly coupled to a photonic crystal cavity. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	40
15	Time domain investigation of radio frequency acousto-mechanical tuning of photonic crystal nanocavity modes. , 2013, , .		0
16	Optical modes in oxide-apertured micropillar cavities. <i>Optics Letters</i> , 2012, 37, 4678.	3.3	9
17	Effect of a nanoparticle on the optical properties of a photonic crystal cavity: theory and experiment. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2012, 29, 698.	2.1	7
18	Surface acoustic wave mediated carrier injection into individual quantum post nano emitters. <i>Nanotechnology</i> , 2012, 23, 285201.	2.6	13

#	ARTICLE	IF	CITATIONS
19	Terahertz Ionization of Highly Charged Quantum Posts in a Perforated Electron Gas. Nano Letters, 2012, 12, 1115-1120.	9.1	4
20	Surface acoustic wave controlled carrier injection into self-assembled quantum dots and quantum posts. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 407-410.	0.8	1
21	Low-Photon-Number Optical Switching with a Single Quantum Dot Coupled to a Photonic Crystal Cavity. Physical Review Letters, 2012, 108, 227402.	7.8	157
22	Selective coupling of quantum dot exciton spin states to a photonic crystal cavity using magnetic field tuning. , 2011, , .		0
23	Strain tuning of quantum dot optical transitions via laser-induced surface defects. Physical Review B, 2011, 84, .	3.2	20
24	Strong coupling between two quantum dots and a photonic crystal cavity using magnetic field tuning. Optics Express, 2011, 19, 2589.	3.4	58
25	A reversibly tunable photonic crystal nanocavity laser using photochromic thin film. Optics Express, 2011, 19, 5551.	3.4	19
26	Dynamic modulation of photonic crystal nanocavities using gigahertz acoustic phonons. Nature Photonics, 2011, 5, 605-609.	31.4	140
27	Fast quantum dot single photon source triggered at telecommunications wavelength. Applied Physics Letters, 2011, 98, .	3.3	35
28	Magnetic field tuning of a quantum dot strongly coupled to a photonic crystal cavity. Applied Physics Letters, 2011, 98, .	3.3	37
29	Permanent tuning of quantum dot transitions to degenerate microcavity resonances. Applied Physics Letters, 2011, 98, 121111.	3.3	17
30	Solid-state cavity-QED in polarization-degenerate micropillar cavities. , 2011, , .		0
31	Enhanced Electro-Optic Phase Modulation in InGaAs Quantum Posts at 1500 nm. IEEE Journal of Quantum Electronics, 2010, 46, 1127-1131.	1.9	3
32	Fiber-connectorized micropillar cavities. Applied Physics Letters, 2010, 97, .	3.3	15
33	Linewidth broadening of a quantum dot coupled to an off-resonant cavity. Physical Review B, 2010, 82, .	3.2	45
34	Differential reflection spectroscopy of a single quantum dot strongly coupled to a photonic crystal cavity. Applied Physics Letters, 2010, 97, 053111.	3.3	6
35	Fast Electrical Control of a Quantum Dot Strongly Coupled to a Photonic-Crystal Cavity. Physical Review Letters, 2010, 104, 047402.	7.8	84
36	Enhanced Sequential Carrier Capture into Individual Quantum Dots and Quantum Posts Controlled by Surface Acoustic Waves. Nano Letters, 2010, 10, 3399-3407.	9.1	48

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37	Electrically pumped quantum post vertical cavity surface emitting lasers. Applied Physics Letters, 2009, 94, .	3.3	8
38	Tuning micropillar cavity birefringence by laser induced surface defects. Applied Physics Letters, 2009, 95, .	3.3	25
39	Independent tuning of quantum dots in a photonic crystal cavity. Applied Physics Letters, 2009, 95, .	3.3	17
40	Strong coupling through optical positioning of a quantum dot in a photonic crystal cavity. Applied Physics Letters, 2009, 94, .	3.3	112
41	Ultrafast optical response of a high-reflectivity GaAs ⁺ AlAs Bragg mirror. Applied Physics Letters, 2005, 86, 031109.	3.3	8