

# Hyochul Kim

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

34  
papers

1,246  
citations

17  
h-index

35  
g-index

41  
ext. papers

1,472  
ext. citations

8  
avg, IF

4.21  
L-index

#	Paper	IF	Citations
34	Direction control of colloidal quantum dot emission using dielectric metasurfaces. <i>Nanophotonics</i> , <b>2020</b> , 9, 1023-1030	6.3	2
33	Cavity-Enhanced Optical Readout of a Single Solid-State Spin. <i>Physical Review Applied</i> , <b>2018</b> , 9,	4.3	8
32	A single-photon switch and transistor enabled by a solid-state quantum memory. <i>Science</i> , <b>2018</b> , 361, 57-60	33.3	82
31	Metasurface electrode light emitting diodes with planar light control. <i>Scientific Reports</i> , <b>2017</b> , 7, 14753	4.9	7
30	A quantum phase switch between a single solid-state spin and a photon. <i>Nature Nanotechnology</i> , <b>2016</b> , 11, 539-544	28.7	89
29	Large Work Function Modulation of Monolayer MoS2 by Ambient Gases. <i>ACS Nano</i> , <b>2016</b> , 10, 6100-7	16.7	137
28	Resonant interactions between a Mollow triplet sideband and a strongly coupled cavity. <i>Physical Review Letters</i> , <b>2014</b> , 113, 027403	7.4	36
27	Far-field emission profiles from L3 photonic crystal cavity modes. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , <b>2013</b> , 11, 37-47	2.6	5
26	A quantum logic gate between a solid-state quantum bit and a photon. <i>Nature Photonics</i> , <b>2013</b> , 7, 373-377	3.9	110
25	Strain tuning of a quantum dot strongly coupled to a photonic crystal cavity. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 151102	3.4	29
24	Surface acoustic wave mediated carrier injection into individual quantum post nano emitters. <i>Nanotechnology</i> , <b>2012</b> , 23, 285201	3.4	11
23	Terahertz ionization of highly charged quantum posts in a perforated electron gas. <i>Nano Letters</i> , <b>2012</b> , 12, 1115-20	11.5	4
22	Surface acoustic wave controlled carrier injection into self-assembled quantum dots and quantum posts. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2012</b> , 9, 407-410		1
21	Low-photon-number optical switching with a single quantum dot coupled to a photonic crystal cavity. <i>Physical Review Letters</i> , <b>2012</b> , 108, 227402	7.4	132
20	Optical modes in oxide-apertured micropillar cavities. <i>Optics Letters</i> , <b>2012</b> , 37, 4678-80	3	7
19	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> , <b>2012</b> , 29, 698	1.7	6
18	Strong coupling between two quantum dots and a photonic crystal cavity using magnetic field tuning. <i>Optics Express</i> , <b>2011</b> , 19, 2589-98	3.3	47

17	A reversibly tunable photonic crystal nanocavity laser using photochromic thin film. <i>Optics Express</i> , <b>2011</b> , 19, 5551-8	3.3	17
16	Dynamic modulation of photonic crystal nanocavities using gigahertz acoustic phonons. <i>Nature Photonics</i> , <b>2011</b> , 5, 605-609	33.9	109
15	Strain tuning of quantum dot optical transitions via laser-induced surface defects. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	20
14	Fast quantum dot single photon source triggered at telecommunications wavelength. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 083105	3.4	29
13	Magnetic field tuning of a quantum dot strongly coupled to a photonic crystal cavity. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 091102	3.4	28
12	Permanent tuning of quantum dot transitions to degenerate microcavity resonances. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 121111	3.4	16
11	Fiber-connectorized micropillar cavities. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 131113	3.4	13
10	Linewidth broadening of a quantum dot coupled to an off-resonant cavity. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	37
9	Differential reflection spectroscopy of a single quantum dot strongly coupled to a photonic crystal cavity. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 053111	3.4	6
8	Fast electrical control of a quantum dot strongly coupled to a photonic-crystal cavity. <i>Physical Review Letters</i> , <b>2010</b> , 104, 047402	7.4	63
7	Enhanced sequential carrier capture into individual quantum dots and quantum posts controlled by surface acoustic waves. <i>Nano Letters</i> , <b>2010</b> , 10, 3399-407	11.5	40
6	Enhanced Electro-Optic Phase Modulation in InGaAs Quantum Posts at 1500 nm. <i>IEEE Journal of Quantum Electronics</i> , <b>2010</b> , 46, 1127-1131	2	2
5	Electrically pumped quantum post vertical cavity surface emitting lasers. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 131104	3.4	8
4	Tuning micropillar cavity birefringence by laser induced surface defects. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 251104	3.4	24
3	Independent tuning of quantum dots in a photonic crystal cavity. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 243107	3.4	15
2	Strong coupling through optical positioning of a quantum dot in a photonic crystal cavity. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 111115	3.4	96
1	Ultrafast optical response of a high-reflectivity GaAs/AlAs Bragg mirror. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 031109	3.4	7