

Hyochul Kim

List of Publications by Citations

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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	Large Work Function Modulation of Monolayer MoS ₂ by Ambient Gases. <i>ACS Nano</i> , 2016 , 10, 6100-7	16.7	137
33	Low-photon-number optical switching with a single quantum dot coupled to a photonic crystal cavity. <i>Physical Review Letters</i> , 2012 , 108, 227402	7.4	132
32	A quantum logic gate between a solid-state quantum bit and a photon. <i>Nature Photonics</i> , 2013 , 7, 373-377	33.9	110
31	Dynamic modulation of photonic crystal nanocavities using gigahertz acoustic phonons. <i>Nature Photonics</i> , 2011 , 5, 605-609	33.9	109
30	Strong coupling through optical positioning of a quantum dot in a photonic crystal cavity. <i>Applied Physics Letters</i> , 2009 , 94, 111115	3.4	96
29	A quantum phase switch between a single solid-state spin and a photon. <i>Nature Nanotechnology</i> , 2016 , 11, 539-544	28.7	89
28	A single-photon switch and transistor enabled by a solid-state quantum memory. <i>Science</i> , 2018 , 361, 57-60	33.3	82
27	Fast electrical control of a quantum dot strongly coupled to a photonic-crystal cavity. <i>Physical Review Letters</i> , 2010 , 104, 047402	7.4	63
26	Strong coupling between two quantum dots and a photonic crystal cavity using magnetic field tuning. <i>Optics Express</i> , 2011 , 19, 2589-98	3.3	47
25	Enhanced sequential carrier capture into individual quantum dots and quantum posts controlled by surface acoustic waves. <i>Nano Letters</i> , 2010 , 10, 3399-407	11.5	40
24	Linewidth broadening of a quantum dot coupled to an off-resonant cavity. <i>Physical Review B</i> , 2010 , 82,	3.3	37
23	Resonant interactions between a Mollow triplet sideband and a strongly coupled cavity. <i>Physical Review Letters</i> , 2014 , 113, 027403	7.4	36
22	Strain tuning of a quantum dot strongly coupled to a photonic crystal cavity. <i>Applied Physics Letters</i> , 2013 , 103, 151102	3.4	29
21	Fast quantum dot single photon source triggered at telecommunications wavelength. <i>Applied Physics Letters</i> , 2011 , 98, 083105	3.4	29
20	Magnetic field tuning of a quantum dot strongly coupled to a photonic crystal cavity. <i>Applied Physics Letters</i> , 2011 , 98, 091102	3.4	28
19	Tuning micropillar cavity birefringence by laser induced surface defects. <i>Applied Physics Letters</i> , 2009 , 95, 251104	3.4	24
18	Strain tuning of quantum dot optical transitions via laser-induced surface defects. <i>Physical Review B</i> , 2011 , 84,	3.3	20

17	A reversibly tunable photonic crystal nanocavity laser using photochromic thin film. <i>Optics Express</i> , 2011 , 19, 5551-8	3.3	17
16	Permanent tuning of quantum dot transitions to degenerate microcavity resonances. <i>Applied Physics Letters</i> , 2011 , 98, 121111	3.4	16
15	Independent tuning of quantum dots in a photonic crystal cavity. <i>Applied Physics Letters</i> , 2009 , 95, 243104	3.4	15
14	Fiber-connectorized micropillar cavities. <i>Applied Physics Letters</i> , 2010 , 97, 131113	3.4	13
13	Surface acoustic wave mediated carrier injection into individual quantum post nano emitters. <i>Nanotechnology</i> , 2012 , 23, 285201	3.4	11
12	Cavity-Enhanced Optical Readout of a Single Solid-State Spin. <i>Physical Review Applied</i> , 2018 , 9,	4.3	8
11	Electrically pumped quantum post vertical cavity surface emitting lasers. <i>Applied Physics Letters</i> , 2009 , 94, 131104	3.4	8
10	Metasurface electrode light emitting diodes with planar light control. <i>Scientific Reports</i> , 2017 , 7, 14753	4.9	7
9	Optical modes in oxide-apertured micropillar cavities. <i>Optics Letters</i> , 2012 , 37, 4678-80	3	7
8	Ultrafast optical response of a high-reflectivity GaAs/AlAs Bragg mirror. <i>Applied Physics Letters</i> , 2005 , 86, 031109	3.4	7
7	Differential reflection spectroscopy of a single quantum dot strongly coupled to a photonic crystal cavity. <i>Applied Physics Letters</i> , 2010 , 97, 053111	3.4	6
6	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	1.7	6
5	Far-field emission profiles from L3 photonic crystal cavity modes. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2013 , 11, 37-47	2.6	5
4	Terahertz ionization of highly charged quantum posts in a perforated electron gas. <i>Nano Letters</i> , 2012 , 12, 1115-20	11.5	4
3	Enhanced Electro-Optic Phase Modulation in InGaAs Quantum Posts at 1500 nm. <i>IEEE Journal of Quantum Electronics</i> , 2010 , 46, 1127-1131	2	2
2	Direction control of colloidal quantum dot emission using dielectric metasurfaces. <i>Nanophotonics</i> , 2020 , 9, 1023-1030	6.3	2
1	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> , 2012 , 9, 407-410		1