

Ji-Hee Kim

List of Publications by Year in descending order

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53
papers

2,490
citations

361388

20
h-index

254170

43
g-index

55
all docs

55
docs citations

55
times ranked

4785
citing authors

#	ARTICLE	IF	CITATIONS
1	Unraveling the origin of near-infrared emission in carbon dots by ultrafast spectroscopy. Carbon, 2022, 188, 229-237.	10.3	12
2	Unusually large exciton binding energy in multilayered 2H-MoTe ₂ . Scientific Reports, 2022, 12, 4543.	3.3	11
3	Two-dimensional Transition metal Dichalcogenides as an Emerging Platform for Singlet Fission Solar Cells. Chemistry - an Asian Journal, 2022, 17, .	3.3	5
4	Elucidation of the Formation Mechanism of Highly Oriented Multiphase Ruddlesden-Popper Perovskite Solar Cells. ACS Energy Letters, 2021, 6, 249-260.	17.4	34
5	Band restructuring of ordered/disordered blue TiO ₂ for visible light photocatalysis. Journal of Materials Chemistry A, 2021, 9, 4822-4830.	10.3	17
6	Hot carrier photovoltaics in van der Waals heterostructures. Nature Reviews Physics, 2021, 3, 178-192.	26.6	77
7	Escalated Photocurrent with Excitation Energy in Dual-Gated MoTe ₂ . Nano Letters, 2021, 21, 1976-1981.	9.1	8
8	Spin-Selective Hole-Exciton Coupling in a V-Doped WSe ₂ Ferromagnetic Semiconductor at Room Temperature. ACS Nano, 2021, 15, 20267-20277.	14.6	13
9	High-temperature differences in plasmonic broadband absorber on PET and Si substrates. Scientific Reports, 2020, 10, 13279.	3.3	1
10	Bandgap Renormalization in Monolayer MoS ₂ on CsPbBr ₃ Quantum Dots via Charge Transfer at Room Temperature. Advanced Materials Interfaces, 2020, 7, 2000835.	3.7	8
11	Decelerated Hot Carrier Cooling in Graphene <i>via</i> Nondissipative Carrier Injection from MoS ₂ . ACS Nano, 2020, 14, 13905-13912.	14.6	22
12	Search for Sub-eV Sterile Neutrinos at RENO. Physical Review Letters, 2020, 125, 191801.	7.8	13
13	Carrier Multiplication in PbS Quantum Dots Anchored on a Au Tip using Conductive Atomic Force Microscopy. Advanced Materials, 2020, 32, e1908461.	21.0	7
14	PbS Quantum Dots: Carrier Multiplication in PbS Quantum Dots Anchored on a Au Tip using Conductive Atomic Force Microscopy (Adv. Mater. 17/2020). Advanced Materials, 2020, 32, 2070130.	21.0	0
15	Fuel-Composition Dependent Reactor Antineutrino Yield at RENO. Physical Review Letters, 2019, 122, 232501.	7.8	46
16	Carrier multiplication in van der Waals layered transition metal dichalcogenides. Nature Communications, 2019, 10, 5488.	12.8	41
17	Two-terminal Multibit Optical Memory via van der Waals Heterostructure. Advanced Materials, 2019, 31, e1807075.	21.0	168
18	Role of Hole Trap Sites in MoS ₂ for Inconsistency in Optical and Electrical Phenomena. ACS Applied Materials & Interfaces, 2018, 10, 10580-10586.	8.0	37

#	ARTICLE	IF	CITATIONS
19	Measurement of Reactor Antineutrino Oscillation Amplitude and Frequency at RENO. Physical Review Letters, 2018, 121, 201801.	7.8	117
20	Physics potentials with the second Hyper-Kamiokande detector in Korea. Progress of Theoretical and Experimental Physics, 2018, 2018, .	6.6	77
21	Excitation Intensity Dependent Carrier Dynamics of Chalcogen Heteroatoms in Medium-Bandgap Polymer Solar Cells. Scientific Reports, 2017, 7, 836.	3.3	5
22	High Color-Purity Green, Orange, and Red Light-Emitting Diodes Based on Chemically Functionalized Graphene Quantum Dots. Scientific Reports, 2016, 6, 24205.	3.3	72
23	Role of Surface States in Photocatalysis: Study of Chlorine-Passivated CdSe Nanocrystals for Photocatalytic Hydrogen Generation. Chemistry of Materials, 2016, 28, 962-968.	6.7	71
24	Superfluorescence from photoexcited semiconductor quantum wells: Magnetic field, temperature, and excitation power dependence. Physical Review B, 2015, 91, .	3.2	15
25	Control of Photoluminescence of Carbon Nanodots via Surface Functionalization using Para-substituted Anilines. Scientific Reports, 2015, 5, 12604.	3.3	146
26	Phase patterning for ohmic homojunction contact in MoTe ₂ . Science, 2015, 349, 625-628.	12.6	918
27	Quantum dot and π -conjugated molecule hybrids: nanoscale luminescence and application to photoresponsive molecular electronics. NPG Asia Materials, 2014, 6, e103-e103.	7.9	19
28	Terahertz and ultrafast dynamics of carriers and phonons in graphene and carbon nanotubes. , 2014, , .		1
29	Ultrafast Generation of Fundamental and Multiple-Order Phonon Excitations in Highly Enriched (6,5) Single-Wall Carbon Nanotubes. Nano Letters, 2014, 14, 1426-1432.	9.1	31
30	Observation of coherent lattice vibrations in epitaxial graphene. Solid State Communications, 2013, 171, 14-16.	1.9	2
31	Coherent phonons in carbon nanotubes and graphene. Chemical Physics, 2013, 413, 55-80.	1.9	33
32	Theory of coherent phonons in carbon nanotubes and graphene nanoribbons. Journal of Physics Condensed Matter, 2013, 25, 144201.	1.8	30
33	Fermi-edge superfluorescence from a quantum-degenerate electron-hole gas. Scientific Reports, 2013, 3, 3283.	3.3	23
34	Single-Walled Carbon Nanotubes. , 2013, , 105-146.		26
35	Sequential Superfluorescent Bursts from a Dense Electron-Hole Plasma via Fermi-Edge Gain Enhancement. , 2013, , .		0
36	Control of coherent acoustic phonon generation with external bias in InGaN/GaN multiple quantum wells. Applied Physics Letters, 2012, 100, 101105.	3.3	14

#	ARTICLE	IF	CITATIONS
37	Optoelectronic Properties of Single-Wall Carbon Nanotubes. <i>Advanced Materials</i> , 2012, 24, 4977-4994.	21.0	138
38	Giant superfluorescent bursts from a semiconductor magneto-plasma. <i>Nature Physics</i> , 2012, 8, 219-224.	16.7	85
39	Gain dynamics of an InAs/InGaAsP quantum dot semiconductor optical amplifier operating at 1.5 μ m. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	15
40	Observation of Different Transient Absorptions Between Single and Multilayer Graphene from Non-degenerate Pump-probe Spectroscopy. <i>AIP Conference Proceedings</i> , 2011, , .	0.4	0
41	Coherent Phonons in Carbon Nanotubes and Graphene. <i>AIP Conference Proceedings</i> , 2011, , .	0.4	3
42	Correlation Between The Lasing Characteristics and The Transient Induced Absorption In InGaN Based UV Laser Diodes. <i>AIP Conference Proceedings</i> , 2011, , .	0.4	0
43	Ultrafast near-infrared spectroscopic study of coherent phonons in the phase-separated manganite $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ <i>Physical Review B</i> , 2010, 81, .	3.2	11
44	Kondo-like behavior in magnetic and thermal properties of single-crystal Tm_5CoSi_2 <i>Physical Review B</i> , 2010, 81, .	3.2	2
45	Temperature- and Bias-dependent Study of Photocurrent Spectroscopy in an InGaN Light-emitting Diode Operating near 400 nm. <i>Journal of the Korean Physical Society</i> , 2010, 57, 793-796.	0.7	6
46	Polarization anisotropy of transient carrier and phonon dynamics in carbon nanotubes. <i>Journal of Applied Physics</i> , 2009, 105, 103506.	2.5	10
47	Generation of high-repetition rate pulse trains up to 20 THz using the femtosecond pulse shaping. , 2007, , .		0
48	Carrier dynamics in ZnO nanorods revealed by pump-probe and the time-resolved photoluminescence. , 2007, , .		1
49	Chiral-selective excitation of lattice vibrations in carbon nanotubes using femtosecond pulse shaping. , 2007, , .		0
50	Temperature Dependence of the Coherent Radial Breathing Mode Oscillations in Single Walled Carbon Nanotubes. , 2007, , .		0
51	Coherent Lattice Vibrations in Single-Walled Carbon Nanotubes. <i>Nano Letters</i> , 2006, 6, 2696-2700.	9.1	93
52	Carrier dynamics and magnetization-induced nonlinearity in ferromagnetic GaMnAs. , 2006, , .		0
53	Effects of two-dimensional electron gas on the optical properties of InAs/GaAs quantum dots in modulation-doped heterostructures. <i>Applied Physics Letters</i> , 2005, 86, 021916.	3.3	5