Jonghwan Kim

List of Publications by Year
in descending order

24 papers	12,285 citations	361413 20 h-index	610901 24 g-index
25 all docs	25 docs citations	25 times ranked	16717 citing authors

#	Article	IF	Citations
1	Emerging Photoluminescence in Monolayer MoS₂. Nano Letters, 2010, 10, 1271-1275.	9.1	7,897
2	Ultrafast charge transfer in atomically thin MoS2/WS2 heterostructures. Nature Nanotechnology, 2014, 9, 682-686.	31.5	1,838
3	Direct observation of the layer-dependent electronic structure in phosphorene. Nature Nanotechnology, 2017, 12, 21-25.	31.5	625
4	Electrical Control of Optical Plasmon Resonance with Graphene. Nano Letters, 2012, 12, 5598-5602.	9.1	266
5	Ultrafast generation of pseudo-magnetic field for valley excitons in WSe ₂ monolayers. Science, 2014, 346, 1205-1208.	12.6	261
6	Observation of ultralong valley lifetime in WSe ₂ /MoS ₂ heterostructures. Science Advances, 2017, 3, e1700518.	10.3	226
7	Interlayer electronâ€“phonon coupling in WSe2/hBN heterostructures. Nature Physics, 2017, 13, 127-131.	16.7	173
8	Imaging of pure spin-valley diffusion current in WS ₂ -WSe ₂ heterostructures. Science, 2018, 360, 893-896.	12.6	155
9	Electronic Structure, Surface Doping, and Optical Response in Epitaxial WSe₂ Thin Films. Nano Letters, 2016, 16, 2485-2491.	9.1	147
10	Reconfiguring crystal and electronic structures of MoS2 by substitutional doping. Nature Communications, 2018, 9, 199.	12.8	128
11	Soliton-dependent plasmon reflection at bilayer graphene domainÂwalls. Nature Materials, 2016, 15, 840-844.	27.5	124
12	Evidence of higher-order topology in multilayer WTe2 from Josephson coupling through anisotropic hinge states. Nature Materials, 2020, 19, 974-979.	27.5	80
13	The role of momentum-dark excitons in the elementary optical response of bilayer WSe2. Nature Communications, 2018, 9, 2586.	12.8	70
14	Heteroepitaxial van der Waals semiconductor superlattices. Nature Nanotechnology, 2021, 16, 1092-1098.	31.5	54
15	Î³-GeSe: A New Hexagonal Polymorph from Group IVâ€“VI Monochalcogenides. Nano Letters, 2021, 21, 4305-4313.	9.1	52
16	On Optical Dipole Moment and Radiative Recombination Lifetime of Excitons in WSe₂. Advanced Functional Materials, 2017, 27, 1601741.	14.9	44
17	Apparent breakdown of Raman selection rule at valley exciton resonances in monolayer<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Mo</mml:mi><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2017, 95, .	3.2	38
18	Deep-ultraviolet electroluminescence and photocurrent generation in graphene/hBN/graphene heterostructures. Nature Communications, 2021, 12, 7134.	12.8	32

#	Article	IF	Citations
19	Graphene for Tunable Nanophotonic Resonators. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 68-71.	2.9	22
20	Atomically thin three-dimensional membranes of van der Waals semiconductors by wafer-scale growth. Science Advances, 2019, 5, eaaw3180.	10.3	22
21	Electrical control of anisotropic and tightly bound excitons in bilayer phosphorene. Physical Review B, 2021, 103, .	3.2	16
22	Electrical properties of crystallized 30B2O3-70V2O5 glass. Electronic Materials Letters, 2013, 9, 309-313.	2.2	7
23	Relationship between structure and optical properties in the CdO-B2O3-SiO2 glass system. Electronic Materials Letters, 2012, 8, 617-620.	2.2	6
24	Scanning Nanowire Probe Interferometer for Scalable Humidity Mapping. Advanced Materials Technologies, 2020, 5, 1900937.	5.8	2