

# Jonghwan Kim

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Electrical control of anisotropic and tightly bound excitons in bilayer phosphorene. Physical Review B, 2021, 103, .	3.2	16
2	$\beta$ -GeSe: A New Hexagonal Polymorph from Group IV-VI Monochalcogenides. Nano Letters, 2021, 21, 4305-4313.	9.1	52
3	Heteroepitaxial van der Waals semiconductor superlattices. Nature Nanotechnology, 2021, 16, 1092-1098.	31.5	54
4	Deep-ultraviolet electroluminescence and photocurrent generation in graphene/hBN/graphene heterostructures. Nature Communications, 2021, 12, 7134.	12.8	32
5	Evidence of higher-order topology in multilayer WTe <sub>2</sub> from Josephson coupling through anisotropic hinge states. Nature Materials, 2020, 19, 974-979.	27.5	80
6	Scanning Nanowire Probe Interferometer for Scalable Humidity Mapping. Advanced Materials Technologies, 2020, 5, 1900937.	5.8	2
7	Atomically thin three-dimensional membranes of van der Waals semiconductors by wafer-scale growth. Science Advances, 2019, 5, eaaw3180.	10.3	22
8	Reconfiguring crystal and electronic structures of MoS <sub>2</sub> by substitutional doping. Nature Communications, 2018, 9, 199.	12.8	128
9	Imaging of pure spin-valley diffusion current in WS <sub>2</sub> -WSe <sub>2</sub> heterostructures. Science, 2018, 360, 893-896.	12.6	155
10	The role of momentum-dark excitons in the elementary optical response of bilayer WSe <sub>2</sub> . Nature Communications, 2018, 9, 2586.	12.8	70
11	Observation of ultralong valley lifetime in WSe <sub>2</sub> /MoS <sub>2</sub> heterostructures. Science Advances, 2017, 3, e1700518.	10.3	226
12	Apparent breakdown of Raman selection rule at valley exciton resonances in monolayer $\text{MoS}_2$ . Physical Review B, 2017, 95, .	3.2	38
13	Interlayer electron-phonon coupling in WSe <sub>2</sub> /hBN heterostructures. Nature Physics, 2017, 13, 127-131.	16.7	173
14	On Optical Dipole Moment and Radiative Recombination Lifetime of Excitons in WSe <sub>2</sub> . Advanced Functional Materials, 2017, 27, 1601741.	14.9	44
15	Direct observation of the layer-dependent electronic structure in phosphorene. Nature Nanotechnology, 2017, 12, 21-25.	31.5	625
16	Soliton-dependent plasmon reflection at bilayer graphene domain walls. Nature Materials, 2016, 15, 840-844.	27.5	124
17	Electronic Structure, Surface Doping, and Optical Response in Epitaxial WSe <sub>2</sub> Thin Films. Nano Letters, 2016, 16, 2485-2491.	9.1	147
18	Ultrafast generation of pseudo-magnetic field for valley excitons in WSe <sub>2</sub> monolayers. Science, 2014, 346, 1205-1208.	12.6	261

#	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	Ultrafast charge transfer in atomically thin MoS <sub>2</sub> /WS <sub>2</sub> heterostructures. Nature Nanotechnology, 2014, 9, 682-686.	31.5	1,838
21	Electrical properties of crystallized 30B2O3-70V2O5 glass. Electronic Materials Letters, 2013, 9, 309-313.	2.2	7
22	Electrical Control of Optical Plasmon Resonance with Graphene. Nano Letters, 2012, 12, 5598-5602.	9.1	266
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	Emerging Photoluminescence in Monolayer MoS <sub>2</sub> . Nano Letters, 2010, 10, 1271-1275.	9.1	7,897