

Jae-Ung Lee

List of Publications by Year in descending order

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41
papers

3,816
citations

201575

27
h-index

289141

40
g-index

41
all docs

41
docs citations

41
times ranked

6698
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced Optical Third-Harmonic Generation in Phase-Engineered MoTe ₂ Thin Films. ACS Photonics, 2022, 9, 2600-2606.	3.2	3
2	Coherent many-body exciton in van der Waals antiferromagnet NiPS ₃ . Nature, 2020, 583, 785-789.	13.7	134
3	Tuning Electrical Conductance of MoS ₂ Monolayers through Substitutional Doping. Nano Letters, 2020, 20, 4095-4101.	4.5	100
4	Polytypism in few-layer gallium selenide. Nanoscale, 2020, 12, 8563-8573.	2.8	26
5	Polarized Raman spectroscopy for studying two-dimensional materials. Journal of Physics Condensed Matter, 2020, 32, 343001.	0.7	30
6	Raman spectroscopy of two-dimensional magnetic van der Waals materials. Nanotechnology, 2019, 30, 452001.	1.3	28
7	Wafer-scale synthesis of monolayer two-dimensional porphyrin polymers for hybrid superlattices. Science, 2019, 366, 1379-1384.	6.0	178
8	Suppression of magnetic ordering in XXZ-type antiferromagnetic monolayer NiPS ₃ . Nature Communications, 2019, 10, 345.	5.8	255
9	Resonant Raman Spectroscopy of Two Dimensional Materials Beyond Graphene. Springer Series in Materials Science, 2019, , 185-202.	0.4	1
10	Antiferromagnetic ordering in van der Waals 2D magnetic material MnPS ₃ probed by Raman spectroscopy. 2D Materials, 2019, 6, 041001.	2.0	120
11	Electrically Robust Single-Crystalline WTe ₂ Nanobelts for Nanoscale Electrical Interconnects. Advanced Science, 2019, 6, 1801370.	5.6	17
12	Metallic Transition-Metal Chalcogenides: Electrically Robust Single-Crystalline WTe ₂ Nanobelts for Nanoscale Electrical Interconnects (Adv. Sci. 3/2019). Advanced Science, 2019, 6, 1970017.	5.6	1
13	Davydov splitting and polytypism in few-layer MoS ₂ . 2D Materials, 2019, 6, 015004.	2.0	27
14	Resonance Raman effects in transition metal dichalcogenides. Journal of Raman Spectroscopy, 2018, 49, 66-75.	1.2	43
15	Single-Crystalline Nanobelts Composed of Transition Metal Ditellurides. Advanced Materials, 2018, 30, e1707260.	11.1	18
16	Probing Evolution of Twist-Angle-Dependent Interlayer Excitons in MoSe ₂ /WSe ₂ van der Waals Heterostructures. ACS Nano, 2017, 11, 4041-4050.	7.3	227
17	Substantial improvements of long-term stability in encapsulation-free WS ₂ using highly interacting graphene substrate. 2D Materials, 2017, 4, 011007.	2.0	20
18	Excitonic resonance effects and Davydov splitting in circularly polarized Raman spectra of few-layer WSe ₂ . 2D Materials, 2017, 4, 045002.	2.0	31

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19	Strain-shear coupling in bilayer MoS ₂ . Nature Communications, 2017, 8, 1370.	5.8	81
20	Excitation energy dependence of Raman spectra of few-layer WS ₂ . FlatChem, 2017, 3, 64-70.	2.8	48
21	The enhanced low resistance contacts and boosted mobility in two-dimensional p-type WSe ₂ transistors through Ar ⁺ ion-beam generated surface defects. AIP Advances, 2016, 6, .	0.6	23
22	Davydov Splitting and Excitonic Resonance Effects in Raman Spectra of Few-Layer MoSe ₂ . ACS Nano, 2016, 10, 8113-8120.	7.3	103
23	Determination of the thickness and orientation of few-layer tungsten ditelluride using polarized Raman spectroscopy. 2D Materials, 2016, 3, 034004.	2.0	35
24	Ising-Type Magnetic Ordering in Atomically Thin FePS ₃ . Nano Letters, 2016, 16, 7433-7438.	4.5	690
25	Raman Signatures of Polytypism in Molybdenum Disulfide. ACS Nano, 2016, 10, 1948-1953.	7.3	92
26	Anisotropic phonon softening of uniaxially strained bilayer graphene. Carbon, 2016, 103, 473-479.	5.4	3
27	Photocurrent generation at ABA/ABC lateral junction in tri-layer graphene photodetector. Carbon, 2016, 96, 454-458.	5.4	12
28	Excitation energy dependent Raman spectrum of MoSe ₂ . Scientific Reports, 2015, 5, 17113.	1.6	135
29	Resonant Raman and photoluminescence spectra of suspended molybdenum disulfide. 2D Materials, 2015, 2, 044003.	2.0	35
30	Anomalous excitonic resonance Raman effects in few-layered MoS ₂ . Nanoscale, 2015, 7, 3229-3236.	2.8	129
31	Engineering Optical and Electronic Properties of WS ₂ by Varying the Number of Layers. ACS Nano, 2015, 9, 6854-6860.	7.3	105
32	Anomalous polarization dependence of Raman scattering and crystallographic orientation of black phosphorus. Nanoscale, 2015, 7, 18708-18715.	2.8	167
33	Saturable optical absorption in MoS ₂ nano-sheet optically deposited on the optical fiber facet. Optics Communications, 2015, 335, 224-230.	1.0	38
34	Raman Spectroscopic Studies on Two-Dimensional Materials. Applied Microscopy, 2015, 45, 126-130.	0.8	31
35	Polarized Raman spectroscopy of Cu-poor and Zn-rich single-crystal Cu ₂ ZnSnSe ₄ . Applied Physics Letters, 2014, 105, .	1.5	23
36	Polarization dependence of double resonant Raman scattering band in bilayer graphene. Carbon, 2014, 72, 257-263.	5.4	20

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37	Large scale production of highly conductive reduced graphene oxide sheets by a solvent-free low temperature reduction. Carbon, 2014, 69, 327-335.	5.4	47
38	Excitation Energy Dependent Raman Signatures of ABA- and ABC-stacked Few-layer Graphene. Scientific Reports, 2014, 4, 4630.	1.6	75
39	Estimation of Young's Modulus of Graphene by Raman Spectroscopy. Nano Letters, 2012, 12, 4444-4448.	4.5	356
40	Thermal conductivity of suspended pristine graphene measured by Raman spectroscopy. Physical Review B, 2011, 83, .	1.1	308
41	Nano-characterizations of low-dimensional nanostructural materials. Journal of the Korean Physical Society, 0, , 1.	0.3	1