Jae-Ung Lee

List of Publications by Year
in descending order

41 papers	3,816 citations	201674 27 h-index	289244 40 g-index
41 all docs	41 docs citations	41 times ranked	6698 citing authors

#	Article	IF	Citations
1	Ising-Type Magnetic Ordering in Atomically Thin FePS₃. Nano Letters, 2016, 16, 7433-7438.	9.1	690
2	Estimation of Youngâ€™s Modulus of Graphene by Raman Spectroscopy. Nano Letters, 2012, 12, 4444-4448.	9.1	356
3	Thermal conductivity of suspended pristine graphene measured by Raman spectroscopy. Physical Review B, 2011, 83, .	3.2	308
4	Suppression of magnetic ordering in XXZ-type antiferromagnetic monolayer NiPS3. Nature Communications, 2019, 10, 345.	12.8	255
5	Probing Evolution of Twist-Angle-Dependent Interlayer Excitons in MoSe₂/WSe₂ van der Waals Heterostructures. ACS Nano, 2017, 11, 4041-4050.	14.6	227
6	Wafer-scale synthesis of monolayer two-dimensional porphyrin polymers for hybrid superlattices. Science, 2019, 366, 1379-1384.	12.6	178
7	Anomalous polarization dependence of Raman scattering and crystallographic orientation of black phosphorus. Nanoscale, 2015, 7, 18708-18715.	5.6	167
8	Excitation energy dependent Raman spectrum of MoSe2. Scientific Reports, 2015, 5, 17113.	3.3	135
9	Coherent many-body exciton in van der Waals antiferromagnet NiPS3. Nature, 2020, 583, 785-789.	27.8	134
10	Anomalous excitonic resonance Raman effects in few-layered MoS₂. Nanoscale, 2015, 7, 3229-3236.	5.6	129
11	Antiferromagnetic ordering in van der Waals 2D magnetic material MnPS ₃ probed by Raman spectroscopy. 2D Materials, 2019, 6, 041001.	4.4	120
12	Engineering Optical and Electronic Properties of WS₂ by Varying the Number of Layers. ACS Nano, 2015, 9, 6854-6860.	14.6	105
13	Davydov Splitting and Excitonic Resonance Effects in Raman Spectra of Few-Layer MoSe₂. ACS Nano, 2016, 10, 8113-8120.	14.6	103
14	Tuning Electrical Conductance of MoS₂ Monolayers through Substitutional Doping. Nano Letters, 2020, 20, 4095-4101.	9.1	100
15	Raman Signatures of Polytypism in Molybdenum Disulfide. ACS Nano, 2016, 10, 1948-1953.	14.6	92
16	Strain-shear coupling in bilayer MoS2. Nature Communications, 2017, 8, 1370.	12.8	81
17	Excitation Energy Dependent Raman Signatures of ABA- and ABC-stacked Few-layer Graphene. Scientific Reports, 2014, 4, 4630.	3.3	75
18	Excitation energy dependence of Raman spectra of few-layer WS2. FlatChem, 2017, 3, 64-70.	5.6	48

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19	Large scale production of highly conductive reduced graphene oxide sheets by a solvent-free low temperature reduction. Carbon, 2014, 69, 327-335.	10.3	47
20	Resonance Raman effects in transition metal dichalcogenides. Journal of Raman Spectroscopy, 2018, 49, 66-75.	2.5	43
21	Saturable optical absorption in MoS2 nano-sheet optically deposited on the optical fiber facet. Optics Communications, 2015, 335, 224-230.	2.1	38
22	Resonant Raman and photoluminescence spectra of suspended molybdenum disulfide. 2D Materials, 2015, 2, 044003.	4.4	35
23	Determination of the thickness and orientation of few-layer tungsten ditelluride using polarized Raman spectroscopy. 2D Materials, 2016, 3, 034004.	4.4	35
24	Excitonic resonance effects and Davydov splitting in circularly polarized Raman spectra of few-layer WSe ₂. 2D Materials, 2017, 4, 045002.	4.4	31
25	Raman Spectroscopic Studies on Two-Dimensional Materials. Applied Microscopy, 2015, 45, 126-130.	1.4	31
26	Polarized Raman spectroscopy for studying two-dimensional materials. Journal of Physics Condensed Matter, 2020, 32, 343001.	1.8	30
27	Raman spectroscopy of two-dimensional magnetic van der Waals materials. Nanotechnology, 2019, 30, 452001.	2.6	28
28	Davydov splitting and polytypism in few-layer MoS ₂. 2D Materials, 2019, 6, 015004.	4.4	27
29	Polytypism in few-layer gallium selenide. Nanoscale, 2020, 12, 8563-8573.	5.6	26
30	Polarized Raman spectroscopy of Cu-poor and Zn-rich single-crystal Cu2ZnSnSe4. Applied Physics Letters, 2014, 105, .	3.3	23
31	The enhanced low resistance contacts and boosted mobility in two-dimensional p-type WSe2 transistors through Ar+ ion-beam generated surface defects. AIP Advances, 2016, 6, .	1.3	23
32	Polarization dependence of double resonant Raman scattering band in bilayer graphene. Carbon, 2014, 72, 257-263.	10.3	20
33	Substantial improvements of long-term stability in encapsulation-free WS ₂ using highly interacting graphene substrate. 2D Materials, 2017, 4, 011007.	4.4	20
34	Singleâ€Crystalline Nanobelts Composed of Transition Metal Ditellurides. Advanced Materials, 2018, 30, e1707260.	21.0	18
35	Electrically Robust Singleâ€Crystalline WTe₂ Nanobelts for Nanoscale Electrical Interconnects. Advanced Science, 2019, 6, 1801370.	11.2	17
36	Photocurrent generation at ABA/ABC lateral junction in tri-layer graphene photodetector. Carbon, 2016, 96, 454-458.	10.3	12

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37	Anisotropic phonon softening of uniaxially strained bilayer graphene. Carbon, 2016, 103, 473-479.	10.3	3
38	Enhanced Optical Third-Harmonic Generation in Phase-Engineered MoTe₂ Thin Films. ACS Photonics, 2022, 9, 2600-2606.	6.6	3
39	Resonant Raman Spectroscopy of Two Dimensional Materials Beyond Graphene. Springer Series in Materials Science, 2019, , 185-202.	0.6	1
40	Metallic Transitionâ€Metal Chalcogenides: Electrically Robust Singleâ€Crystalline WTe₂ Nanobelts for Nanoscale Electrical Interconnects (Adv. Sci. 3/2019). Advanced Science, 2019, 6, 1970017.	11.2	1
41	Nano-characterizations of low-dimensional nanostructural materials. Journal of the Korean Physical Society, 0, , 1.	0.7	1