

Jae-Ung Lee

List of Publications by Year in descending order

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41
papers

3,816
citations

201385

27
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288905

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 FePS ₃ . Nano Letters, 2016, 16, 7433-7438.	4.5	690
2	Estimation of Young's Modulus of Graphene by Raman Spectroscopy. Nano Letters, 2012, 12, 4444-4448.	4.5	356
3	Thermal conductivity of suspended pristine graphene measured by Raman spectroscopy. Physical Review B, 2011, 83, .	1.1	308
4	Suppression of magnetic ordering in XXZ-type antiferromagnetic monolayer NiPS ₃ . Nature Communications, 2019, 10, 345.	5.8	255
5	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
6	Wafer-scale synthesis of monolayer two-dimensional porphyrin polymers for hybrid superlattices. Science, 2019, 366, 1379-1384.	6.0	178
7	Anomalous polarization dependence of Raman scattering and crystallographic orientation of black phosphorus. Nanoscale, 2015, 7, 18708-18715.	2.8	167
8	Excitation energy dependent Raman spectrum of MoSe ₂ . Scientific Reports, 2015, 5, 17113.	1.6	135
9	Coherent many-body exciton in van der Waals antiferromagnet NiPS ₃ . Nature, 2020, 583, 785-789.	13.7	134
10	Anomalous excitonic resonance Raman effects in few-layered MoS ₂ . Nanoscale, 2015, 7, 3229-3236.	2.8	129
11	Antiferromagnetic ordering in van der Waals 2D magnetic material MnPS ₃ probed by Raman spectroscopy. 2D Materials, 2019, 6, 041001.	2.0	120
12	Engineering Optical and Electronic Properties of WS ₂ by Varying the Number of Layers. ACS Nano, 2015, 9, 6854-6860.	7.3	105
13	Davydov Splitting and Excitonic Resonance Effects in Raman Spectra of Few-Layer MoSe ₂ . ACS Nano, 2016, 10, 8113-8120.	7.3	103
14	Tuning Electrical Conductance of MoS ₂ Monolayers through Substitutional Doping. Nano Letters, 2020, 20, 4095-4101.	4.5	100
15	Raman Signatures of Polytypism in Molybdenum Disulfide. ACS Nano, 2016, 10, 1948-1953.	7.3	92
16	Strain-shear coupling in bilayer MoS ₂ . Nature Communications, 2017, 8, 1370.	5.8	81
17	Excitation Energy Dependent Raman Signatures of ABA- and ABC-stacked Few-layer Graphene. Scientific Reports, 2014, 4, 4630.	1.6	75
18	Excitation energy dependence of Raman spectra of few-layer WS ₂ . FlatChem, 2017, 3, 64-70.	2.8	48

#	ARTICLE	IF	CITATIONS
19	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
20	Resonance Raman effects in transition metal dichalcogenides. Journal of Raman Spectroscopy, 2018, 49, 66-75.	1.2	43
21	Saturable optical absorption in MoS ₂ nano-sheet optically deposited on the optical fiber facet. Optics Communications, 2015, 335, 224-230.	1.0	38
22	Resonant Raman and photoluminescence spectra of suspended molybdenum disulfide. 2D Materials, 2015, 2, 044003.	2.0	35
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	Excitonic resonance effects and Davydov splitting in circularly polarized Raman spectra of few-layer WSe ₂ . 2D Materials, 2017, 4, 045002.	2.0	31
25	Raman Spectroscopic Studies on Two-Dimensional Materials. Applied Microscopy, 2015, 45, 126-130.	0.8	31
26	Polarized Raman spectroscopy for studying two-dimensional materials. Journal of Physics Condensed Matter, 2020, 32, 343001.	0.7	30
27	Raman spectroscopy of two-dimensional magnetic van der Waals materials. Nanotechnology, 2019, 30, 452001.	1.3	28
28	Davydov splitting and polytypism in few-layer MoS ₂ . 2D Materials, 2019, 6, 015004.	2.0	27
29	Polytypism in few-layer gallium selenide. Nanoscale, 2020, 12, 8563-8573.	2.8	26
30	Polarized Raman spectroscopy of Cu-poor and Zn-rich single-crystal Cu ₂ ZnSnSe ₄ . Applied Physics Letters, 2014, 105, .	1.5	23
31	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
32	Polarization dependence of double resonant Raman scattering band in bilayer graphene. Carbon, 2014, 72, 257-263.	5.4	20
33	Substantial improvements of long-term stability in encapsulation-free WS ₂ using highly interacting graphene substrate. 2D Materials, 2017, 4, 011007.	2.0	20
34	Single-Crystalline Nanobelts Composed of Transition Metal Ditellurides. Advanced Materials, 2018, 30, e1707260.	11.1	18
35	Electrically Robust Single-Crystalline WTe ₂ Nanobelts for Nanoscale Electrical Interconnects. Advanced Science, 2019, 6, 1801370.	5.6	17
36	Photocurrent generation at ABA/ABC lateral junction in tri-layer graphene photodetector. Carbon, 2016, 96, 454-458.	5.4	12

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37	Anisotropic phonon softening of uniaxially strained bilayer graphene. Carbon, 2016, 103, 473-479.	5.4	3
38	Enhanced Optical Third-Harmonic Generation in Phase-Engineered MoTe ₂ Thin Films. ACS Photonics, 2022, 9, 2600-2606.	3.2	3
39	Resonant Raman Spectroscopy of Two Dimensional Materials Beyond Graphene. Springer Series in Materials Science, 2019, , 185-202.	0.4	1
40	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
41	Nano-characterizations of low-dimensional nanostructural materials. Journal of the Korean Physical Society, 0, , 1.	0.3	1