Yi-Hsien Lee

List of Publications by Year
in descending order

51 papers	9,670 citations	147801 31 h-index	206112 48 g-index
51 all docs	51 docs citations	51 times ranked	13701 citing authors

#	Article	IF	Citations
1	Synthesis of Largeâ€Area MoS₂ Atomic Layers with Chemical Vapor Deposition. Advanced Materials, 2012, 24, 2320-2325.	21.0	2,956
2	Strong lightâ€“matter coupling in two-dimensional atomic crystals. Nature Photonics, 2015, 9, 30-34.	31.4	865
3	Role of the Seeding Promoter in MoS₂ Growth by Chemical Vapor Deposition. Nano Letters, 2014, 14, 464-472.	9.1	633
4	Synthesis and Transfer of Single-Layer Transition Metal Disulfides on Diverse Surfaces. Nano Letters, 2013, 13, 1852-1857.	9.1	612
5	Graphene/MoS₂ Hybrid Technology for Large-Scale Two-Dimensional Electronics. Nano Letters, 2014, 14, 3055-3063.	9.1	554
6	Dielectric Screening of Excitons and Trions in Single-Layer MoS₂. Nano Letters, 2014, 14, 5569-5576.	9.1	520
7	Valley-selective optical Stark effect in monolayerÂWS2. Nature Materials, 2015, 14, 290-294.	27.5	479
8	Electronic transport and device prospects of monolayer molybdenum disulphide grown by chemical vapour deposition. Nature Communications, 2014, 5, 3087.	12.8	370
9	Large-Area Synthesis of High-Quality Uniform Few-Layer MoTe₂. Journal of the American Chemical Society, 2015, 137, 11892-11895.	13.7	302
10	Synthesis of Lateral Heterostructures of Semiconducting Atomic Layers. Nano Letters, 2015, 15, 410-415.	9.1	285
11	Parallel Stitching of 2D Materials. Advanced Materials, 2016, 28, 2322-2329.	21.0	195
12	Observation of interlayer phonon modes in van der Waals heterostructures. Physical Review B, 2015, 91, .	3.2	174
13	Ultrahigh Raman Enhancement on Monolayer MoS₂. ACS Photonics, 2016, 3, 1164-1169.	6.6	167
14	Intervalley biexcitons and many-body effects in monolayer<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MoS</mml:mi><mml:mn>2</mml:mn></mml:msub></mm Physical Review B, 2015, 92, .	3.2	151
15	Design, Modeling, and Fabrication of Chemical Vapor Deposition Grown MoS₂ Circuits with E-Mode FETs for Large-Area Electronics. Nano Letters, 2016, 16, 6349-6356.	9.1	142
16	A gate-free monolayer WSe2 pn diode. Nature Communications, 2018, 9, 3143.	12.8	108
17	Broadband optical properties of large-area monolayer CVD molybdenum disulfide. Physical Review B, 2014, 90, .	3.2	106
18	Large, valley-exclusive Bloch-Siegert shift in monolayer WS ₂. Science, 2017, 355, 1066-1069.	12.6	102

#	Article	IF	Citations
19	Photoresponse of an Organic Semiconductor/Two-Dimensional Transition Metal Dichalcogenide Heterojunction. Nano Letters, 2017, 17, 3176-3181.	9.1	97
20	Toward a Quantitative Understanding of the Reduction Pathways of a Salt Precursor in the Synthesis of Metal Nanocrystals. Nano Letters, 2017, 17, 334-340.	9.1	87
21	Exchange-driven intravalley mixing of excitons in monolayer transition metal dichalcogenides. Nature Physics, 2019, 15, 228-232.	16.7	68
22	Autocatalytic surface reduction and its role in controlling seed-mediated growth of colloidal metal nanocrystals. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 13619-13624.	7.1	64
23	Plasmonic Enhancement and Manipulation of Optical Nonlinearity in Monolayer Tungsten Disulfide. Laser and Photonics Reviews, 2018, 12, 1800188.	8.7	64
24	Microcavity enhanced second harmonic generation in 2D MoS_2. Optical Materials Express, 2016, 6, 2360.	3.0	54
25	Observation of Intervalley Biexcitonic Optical Stark Effect in Monolayer WS₂. Nano Letters, 2016, 16, 7421-7426.	9.1	49
26	Strong and Broadly Tunable Plasmon Resonances in Thick Films of Aligned Carbon Nanotubes. Nano Letters, 2017, 17, 5641-5645.	9.1	42
27	Coherent Plasmon and Phonon-Plasmon Resonances in Carbon Nanotubes. Physical Review Letters, 2017, 118, 257401.	7.8	41
28	Observation of Excitonâ€“Exciton Interaction Mediated Valley Depolarization in Monolayer MoSe₂. Nano Letters, 2018, 18, 223-228.	9.1	39
29	Epitaxial Aluminum Surface-Enhanced Raman Spectroscopy Substrates for Large-Scale 2D Material Characterization. ACS Nano, 2020, 14, 8838-8845.	14.6	36
30	Synthesis of Inâ€Plane Artificial Lattices of Monolayer Multijunctions. Advanced Materials, 2018, 30, 1704796.	21.0	35
31	Cascaded exciton energy transfer in a monolayer semiconductor lateral heterostructure assisted by surface plasmon polariton. Nature Communications, 2017, 8, 35.	12.8	32
32	Nonlinear valley phonon scattering under the strong coupling regime. Nature Materials, 2021, 20, 1210-1215.	27.5	32
33	Dipole-Aligned Energy Transfer between Excitons in Two-Dimensional Transition Metal Dichalcogenide and Organic Semiconductor. ACS Photonics, 2018, 5, 100-104.	6.6	29
34	Tunable MoirÃ© Superlattice of Artificially Twisted Monolayers. Advanced Materials, 2019, 31, 1901077.	21.0	27
35	Phase-driven magneto-electrical characteristics of single-layer MoS₂. Nanoscale, 2016, 8, 5627-5633.	5.6	26
36	Electron Field Emission of Geometrically Modulated Monolayer Semiconductors. Advanced Functional Materials, 2018, 28, 1706113.	14.9	23

#	Article	IF	Citations
37	Tuning of Two-Dimensional Plasmonâ€“Exciton Coupling in Full Parameter Space: A Polaritonic Non-Hermitian System. Nano Letters, 2021, 21, 2596-2602.	9.1	21
38	Controlled Lowâ€Frequency Electrical Noise of Monolayer MoS₂ with Ohmic Contact and Tunable Carrier Concentration. Advanced Electronic Materials, 2018, 4, 1700340.	5.1	14
39	Synthesis and Application of Monolayer Semiconductors (June 2015). IEEE Journal of Quantum Electronics, 2015, 51, 1-10.	1.9	13
40	Epitaxial aluminum plasmonics covering full visible spectrum. Nanophotonics, 2020, 10, 627-637.	6.0	13
41	Lineshape characterization of excitons in monolayer WS₂ by two-dimensional electronic spectroscopy. Nanoscale Advances, 2020, 2, 2333-2338.	4.6	7
42	Delayed Charge Recombination by Openâ€Shell Organics: Its Application in Achieving Superb Photodetectors with Broadband (400â€“1160 nm) Ultrahigh Sensitivity and Stability. Advanced Optical Materials, 2020, 8, 1902179.	7.3	7
43	Selective Growth of WSe2 with Graphene Contacts. Nanoscale Research Letters, 2020, 15, 61.	5.7	6
44	Microcavity Enhanced Second Harmonic Generation in 2D Semiconductors. , 2016, , .		3
45	Monolayer Multijunctions: Synthesis of Inâ€Plane Artificial Lattices of Monolayer Multijunctions (Adv.) Tj ETQq1 1 0.784314 rgBT /Ov	21.0	2
46	Monolayer Stacking: Tunable MoirÃ© Superlattice of Artificially Twisted Monolayers (Adv. Mater.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	21.0	2
47	Scalable MoirÃ© Lattice with Oriented TMD Monolayers. Nanoscale Research Letters, 2022, 17, 34.	5.7	2
48	Monolayer Semiconductors: Electron Field Emission of Geometrically Modulated Monolayer Semiconductors (Adv. Funct. Mater. 7/2018). Advanced Functional Materials, 2018, 28, 1870046.	14.9	1
49	Near-field spectroscopic imaging of exciton quenching at atomically sharp MoS₂/WS₂ lateral heterojunctions. Nanoscale, 2022, , .	5.6	1
50	Single-Photon Emission from Rewritable Nanoimprinted Localized Emitter Arrays in Atomically Thin Crystals. ACS Photonics, 2022, 9, 752-757.	6.6	1
51	Visualization of Band Shifting and Interlayer Coupling in W_xMo_{1â€“x}S₂ Alloys Using Near-Field Broadband Absorption Microscopy. ACS Nano, 2022, , .	14.6	1