

# Yuxuan Lin

## List of Publications by Year in descending order

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43  
papers

6,002  
citations

196777

29  
h-index

312153

41  
g-index

46  
all docs

46  
docs citations

46  
times ranked

11611  
citing authors

#	ARTICLE	IF	CITATIONS
1	Soft-lock drawing of super-aligned carbon nanotube bundles for nanometre electrical contacts. Nature Nanotechnology, 2022, 17, 278-284.	15.6	24
2	Healing of donor defect states in monolayer molybdenum disulfide using oxygen-incorporated chemical vapour deposition. Nature Electronics, 2022, 5, 28-36.	13.1	44
3	Growth Optimization and Device Integration of Narrow-Bandgap Graphene Nanoribbons. Small, 2022, 18, .	5.2	17
4	Accelerated Ultrafast Magnetization Dynamics at Graphene/CoGd Interfaces. ACS Nano, 2022, 16, 9620-9630.	7.3	2
5	Flexible and high-performance electrochromic devices enabled by self-assembled 2D TiO <sub>2</sub> /MXene heterostructures. Nature Communications, 2021, 12, 1587.	5.8	143
6	WSe <sub>2</sub> /graphene heterojunction synaptic phototransistor with both electrically and optically tunable plasticity. 2D Materials, 2021, 8, 035034.	2.0	17
7	Resonance-Enhanced Excitation of Interlayer Vibrations in Atomically Thin Black Phosphorus. Nano Letters, 2021, 21, 4809-4815.	4.5	8
8	Ultralow contact resistance between semimetal and monolayer semiconductors. Nature, 2021, 593, 211-217.	13.7	579
9	Bottom-Up Synthesized Nanoporous Graphene Transistors. Advanced Functional Materials, 2021, 31, 2103798.	7.8	15
10	Designing artificial two-dimensional landscapes via atomic-layer substitution. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	43
11	Anomalous heavy doping in chemical-vapor-deposited titanium trisulfide nanostructures. Physical Review Materials, 2021, 5, .	0.9	3
12	Bottom-Up Synthesized Nanoporous Graphene Transistors (Adv. Funct. Mater. 47/2021). Advanced Functional Materials, 2021, 31, 2170348.	7.8	2
13	Impact of Al <sub>2</sub> O <sub>3</sub> Passivation on the Photovoltaic Performance of Vertical WSe <sub>2</sub> Schottky Junction Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 57987-57995.	4.0	19
14	Deep-Learning-Enabled Fast Optical Identification and Characterization of 2D Materials. Advanced Materials, 2020, 32, e2000953.	11.1	54
15	Chemical sensor systems based on 2D and thin film materials. 2D Materials, 2020, 7, 022002.	2.0	34
16	Realization of 2D crystalline metal nitrides via selective atomic substitution. Science Advances, 2020, 6, eaax8784.	4.7	66
17	Heterogeneous Integration of 2D Materials and Devices on a Si Platform. , 2019, , 43-84.		5
18	Direct Observation of Symmetry-Dependent Electron-Phonon Coupling in Black Phosphorus. Journal of the American Chemical Society, 2019, 141, 18994-19001.	6.6	21

#	ARTICLE	IF	CITATIONS
19	Two-dimensional MoS <sub>2</sub> -enabled flexible rectenna for Wi-Fi-band wireless energy harvesting. Nature, 2019, 566, 368-372.	13.7	266
20	Asymmetric hot-carrier thermalization and broadband photoresponse in graphene-2D semiconductor lateral heterojunctions. Science Advances, 2019, 5, eaav1493.	4.7	43
21	Photoelectric Synaptic Plasticity Realized by 2D Perovskite. Advanced Functional Materials, 2019, 29, 1902538.	7.8	132
22	Additive manufacturing of patterned 2D semiconductor through recyclable masked growth. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 3437-3442.	3.3	46
23	Giant intrinsic photoresponse in pristine graphene. Nature Nanotechnology, 2019, 14, 145-150.	15.6	61
24	CVD Technology for 2-D Materials. IEEE Transactions on Electron Devices, 2018, 65, 4040-4052.	1.6	47
25	Direct optical detection of Weyl fermion chirality in a topological semimetal. Nature Physics, 2017, 13, 842-847.	6.5	291
26	Flexible Piezoelectric-Induced Pressure Sensors for Static Measurements Based on Nanowires/Graphene Heterostructures. ACS Nano, 2017, 11, 4507-4513.	7.3	435
27	Parallel Stitching of 2D Materials. Advanced Materials, 2016, 28, 2322-2329.	11.1	195
28	Ultrasmall Mode Volumes in Plasmonic Cavities of Nanoparticle-Embedded Mirror Structures. Small, 2016, 12, 5190-5199.	5.2	53
29	Design, Modeling, and Fabrication of Chemical Vapor Deposition Grown MoS <sub>2</sub> Circuits with E-Mode FETs for Large-Area Electronics. Nano Letters, 2016, 16, 6349-6356.	4.5	142
30	High-Performance WSe <sub>2</sub> Complementary Metal Oxide Semiconductor Technology and Integrated Circuits. Nano Letters, 2015, 15, 4928-4934.	4.5	204
31	Origin and Control of OFF-State Leakage Current in GaN-on-Si Vertical Diodes. IEEE Transactions on Electron Devices, 2015, 62, 2155-2161.	1.6	185
32	Leveraging Nanocavity Harmonics for Control of Optical Processes in 2D Semiconductors. Nano Letters, 2015, 15, 3578-3584.	4.5	200
33	Graphene/MoS <sub>2</sub> Hybrid Technology for Large-Scale Two-Dimensional Electronics. Nano Letters, 2014, 14, 3055-3063.	4.5	554
34	Role of the Seeding Promoter in MoS <sub>2</sub> Growth by Chemical Vapor Deposition. Nano Letters, 2014, 14, 464-472.	4.5	633
35	Dielectric Screening of Excitons and Trions in Single-Layer MoS <sub>2</sub> . Nano Letters, 2014, 14, 5569-5576.	4.5	520
36	Raman Enhancement Effect on Two-Dimensional Layered Materials: Graphene, h-BN and MoS <sub>2</sub> . Nano Letters, 2014, 14, 3033-3040.	4.5	464

#	ARTICLE	IF	CITATIONS
37	Graphene/semiconductor heterojunction solar cells with modulated antireflection and graphene work function. <i>Energy and Environmental Science</i> , 2013, 6, 108-115.	15.6	154
38	Optimization of graphene/silicon heterojunction solar cells. , 2012, , .		4
39	Unipolar to ambipolar conversion in graphene field-effect transistors. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	17
40	Efficiency enhancement of graphene/silicon-pillar-array solar cells by HNO <sub>3</sub> and PEDOT-PSS. <i>Nanoscale</i> , 2012, 4, 2130.	2.8	81
41	Enhanced photovoltaic properties in graphene/polycrystalline BiFeO <sub>3</sub> /Pt heterojunction structure. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	97
42	Graphene based Schottky junction solar cells on patterned silicon-pillar-array substrate. <i>Applied Physics Letters</i> , 2011, 99, 233505.	1.5	76
43	Controlled growth of two-dimensional InAs single crystals via van der Waals epitaxy. <i>Nano Research</i> , 0, , .	5.8	4