

# Ang-Yu Lu

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

32  
papers

4,477  
citations

22  
h-index

36  
g-index

36  
ext. papers

5,478  
ext. citations

14.1  
avg, IF

5.14  
L-index

#	Paper	IF	Citations
32	Healing of donor defect states in monolayer molybdenum disulfide using oxygen-incorporated chemical vapour deposition. <i>Nature Electronics</i> , <b>2022</b> , 5, 28-36	28.4	7
31	Synthesis of High-Performance Monolayer Molybdenum Disulfide at Low Temperature.. <i>Small Methods</i> , <b>2021</b> , 5, e2000720	12.8	3
30	Ultralow contact resistance between semimetal and monolayer semiconductors. <i>Nature</i> , <b>2021</b> , 593, 211-217	30.4	154
29	Designing artificial two-dimensional landscapes via atomic-layer substitution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	9
28	Bottom-Up Synthesized All-Thermal-Catalyst Aerogels for Heat-Regenerative Air Filtration. <i>Nano Letters</i> , <b>2021</b> , 21, 8160-8165	11.5	0
27	Synergistic Roll-to-Roll Transfer and Doping of CVD-Graphene Using Parylene for Ambient-Stable and Ultra-Lightweight Photovoltaics. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2001924	15.6	32
26	Strain-Correlated Localized Exciton Energy in Atomically Thin Semiconductors. <i>ACS Photonics</i> , <b>2020</b> , 7, 1135-1140	6.3	14
25	Enhancement of van der Waals Interlayer Coupling through Polar Janus MoSSe. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 17499-17507	16.4	23
24	Additive manufacturing assisted van der Waals integration of 3D/3D hierarchically functional nanostructures. <i>Communications Materials</i> , <b>2020</b> , 1,	6	4
23	Additive manufacturing of patterned 2D semiconductor through recyclable masked growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 3437-3442	11.5	25
22	Repeated roll-to-roll transfer of two-dimensional materials by electrochemical delamination. <i>Nanoscale</i> , <b>2018</b> , 10, 5522-5531	7.7	22
21	CVD Technology for 2-D Materials. <i>IEEE Transactions on Electron Devices</i> , <b>2018</b> , 65, 4040-4052	2.9	23
20	Surface-reconstructed Cu electrode via a facile electrochemical anodization-reduction process for low overpotential CO <sub>2</sub> reduction. <i>Journal of Saudi Chemical Society</i> , <b>2017</b> , 21, 708-712	4.3	6
19	Janus monolayers of transition metal dichalcogenides. <i>Nature Nanotechnology</i> , <b>2017</b> , 12, 744-749	28.7	828
18	Structurally Deformed MoS for Electrochemically Stable, Thermally Resistant, and Highly Efficient Hydrogen Evolution Reaction. <i>Advanced Materials</i> , <b>2017</b> , 29, 1703863	24	79
17	Scalable Patterning of MoS <sub>2</sub> Nanoribbons by Micromolding in Capillaries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 20993-1001	9.5	21
16	High-Sulfur-Vacancy Amorphous Molybdenum Sulfide as a High Current Electrocatalyst in Hydrogen Evolution. <i>Small</i> , <b>2016</b> , 12, 5530-5537	11	138

15	Low overpotential and high current CO <sub>2</sub> reduction with surface reconstructed Cu foam electrodes. <i>Nano Energy</i> , <b>2016</b> , 27, 121-129	17.1	78
14	Photoluminescence Enhancement and Structure Repairing of Monolayer MoSe <sub>2</sub> by Hydrohalic Acid Treatment. <i>ACS Nano</i> , <b>2016</b> , 10, 1454-61	16.7	137
13	Electron energy loss spectroscopy of excitons in two-dimensional-semiconductors as a function of temperature. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 163107	3.4	11
12	Highly acid-durable carbon coated Co <sub>3</sub> O <sub>4</sub> nanoarrays as efficient oxygen evolution electrocatalysts. <i>Nano Energy</i> , <b>2016</b> , 25, 42-50	17.1	126
11	Activating basal-plane catalytic activity of two-dimensional MoS <sub>2</sub> monolayer with remote hydrogen plasma. <i>Nano Energy</i> , <b>2016</b> , 30, 846-852	17.1	88
10	Three-Dimensional Heterostructures of MoS <sub>2</sub> Nanosheets on Conducting MoO <sub>2</sub> as an Efficient Electrocatalyst To Enhance Hydrogen Evolution Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 23328-35	9.5	103
9	Exciton mapping at subwavelength scales in two-dimensional materials. <i>Physical Review Letters</i> , <b>2015</b> , 114, 107601	7.4	62
8	Rugae-like FeP nanocrystal assembly on a carbon cloth: an exceptionally efficient and stable cathode for hydrogen evolution. <i>Nanoscale</i> , <b>2015</b> , 7, 10974-81	7.7	107
7	CoP nanosheet assembly grown on carbon cloth: A highly efficient electrocatalyst for hydrogen generation. <i>Nano Energy</i> , <b>2015</b> , 15, 634-641	17.1	290
6	One-step formation of a single atomic-layer transistor by the selective fluorination of a graphene film. <i>Small</i> , <b>2014</b> , 10, 989-97	11	51
5	Decoupling of CVD graphene by controlled oxidation of recrystallized Cu. <i>RSC Advances</i> , <b>2012</b> , 2, 3008	3.7	69
4	van der Waals epitaxy of MoS <sub>2</sub> layers using graphene as growth templates. <i>Nano Letters</i> , <b>2012</b> , 12, 2784-9	11.5	788
3	Direct formation of wafer scale graphene thin layers on insulating substrates by chemical vapor deposition. <i>Nano Letters</i> , <b>2011</b> , 11, 3612-6	11.5	254
2	High-quality thin graphene films from fast electrochemical exfoliation. <i>ACS Nano</i> , <b>2011</b> , 5, 2332-9	16.7	765
1	Graphene synthesis by chemical vapor deposition and transfer by a roll-to-roll process. <i>Carbon</i> , <b>2010</b> , 48, 3169-3174	10.4	155