Ang-Yu Lu

List of Publications by Citations

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	Janus monolayers of transition metal dichalcogenides. *Nature Nanotechnology*, **2017**, 12, 744-749	28.7	828
31	van der Waals epitaxy of MoS layers using graphene as growth templates. *Nano Letters*, **2012**, 12, 2784-91	11.5	788
30	High-quality thin graphene films from fast electrochemical exfoliation. *ACS Nano*, **2011**, 5, 2332-9	16.7	765
29	CoP nanosheet assembly grown on carbon cloth: A highly efficient electrocatalyst for hydrogen generation. *Nano Energy*, **2015**, 15, 634-641	17.1	290
28	Direct formation of wafer scale graphene thin layers on insulating substrates by chemical vapor deposition. *Nano Letters*, **2011**, 11, 3612-6	11.5	254
27	Graphene synthesis by chemical vapor deposition and transfer by a roll-to-roll process. *Carbon*, **2010**, 48, 3169-3174	10.4	155
26	Ultralow contact resistance between semimetal and monolayer semiconductors. *Nature*, **2021**, 593, 211-217	30.4	154
25	High-Sulfur-Vacancy Amorphous Molybdenum Sulfide as a High Current Electrocatalyst in Hydrogen Evolution. *Small*, **2016**, 12, 5530-5537	11	138
24	Photoluminescence Enhancement and Structure Repairing of Monolayer MoSe2 by Hydrohalic Acid Treatment. *ACS Nano*, **2016**, 10, 1454-61	16.7	137
23	Highly acid-durable carbon coated Co3O4 nanoarrays as efficient oxygen evolution electrocatalysts. *Nano Energy*, **2016**, 25, 42-50	17.1	126
22	Rugae-like FeP nanocrystal assembly on a carbon cloth: an exceptionally efficient and stable cathode for hydrogen evolution. *Nanoscale*, **2015**, 7, 10974-81	7.7	107
21	Three-Dimensional Heterostructures of MoS2 Nanosheets on Conducting MoO2 as an Efficient Electrocatalyst To Enhance Hydrogen Evolution Reaction. *ACS Applied Materials & Interfaces*, **2015**, 7, 23328-35	9.5	103
20	Activating basal-plane catalytic activity of two-dimensional MoS2 monolayer with remote hydrogen plasma. *Nano Energy*, **2016**, 30, 846-852	17.1	88
19	Structurally Deformed MoS for Electrochemically Stable, Thermally Resistant, and Highly Efficient Hydrogen Evolution Reaction. *Advanced Materials*, **2017**, 29, 1703863	24	79
18	Low overpotential and high current CO2 reduction with surface reconstructed Cu foam electrodes. *Nano Energy*, **2016**, 27, 121-129	17.1	78
17	Decoupling of CVD graphene by controlled oxidation of recrystallized Cu. *RSC Advances*, **2012**, 2, 3008	3.7	69
16	Exciton mapping at subwavelength scales in two-dimensional materials. *Physical Review Letters*, **2015**, 114, 107601	7.4	62

15	One-step formation of a single atomic-layer transistor by the selective fluorination of a graphene film. *Small*, **2014**, 10, 989-97	11	51
14	Synergistic Roll-to-Roll Transfer and Doping of CVD-Graphene Using Parylene for Ambient-Stable and Ultra-Lightweight Photovoltaics. *Advanced Functional Materials*, **2020**, 30, 2001924	15.6	32
13	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	11.5	25
12	Enhancement of van der Waals Interlayer Coupling through Polar Janus MoSSe. *Journal of the American Chemical Society*, **2020**, 142, 17499-17507	16.4	23
11	CVD Technology for 2-D Materials. *IEEE Transactions on Electron Devices*, **2018**, 65, 4040-4052	2.9	23
10	Repeated roll-to-roll transfer of two-dimensional materials by electrochemical delamination. *Nanoscale*, **2018**, 10, 5522-5531	7.7	22
9	Scalable Patterning of MoS2 Nanoribbons by Micromolding in Capillaries. *ACS Applied Materials & Interfaces*, **2016**, 8, 20993-1001	9.5	21
8	Strain-Correlated Localized Exciton Energy in Atomically Thin Semiconductors. *ACS Photonics*, **2020**, 7, 1135-1140	6.3	14
7	Electron energy loss spectroscopy of excitons in two-dimensional-semiconductors as a function of temperature. *Applied Physics Letters*, **2016**, 108, 163107	3.4	11
6	Designing artificial two-dimensional landscapes via atomic-layer substitution. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	9
5	Healing of donor defect states in monolayer molybdenum disulfide using oxygen-incorporated chemical vapour deposition. *Nature Electronics*, **2022**, 5, 28-36	28.4	7
4	Surface-reconstructed Cu electrode via a facile electrochemical anodization-reduction process for low overpotential CO2 reduction. *Journal of Saudi Chemical Society*, **2017**, 21, 708-712	4.3	6
3	Additive manufacturing assisted van der Waals integration of 3D/3D hierarchically functional nanostructures. *Communications Materials*, **2020**, 1,	6	4
2	Synthesis of High-Performance Monolayer Molybdenum Disulfide at Low Temperature.. *Small Methods*, **2021**, 5, e2000720	12.8	3
1	Bottom-Up Synthesized All-Thermal-Catalyst Aerogels for Heat-Regenerative Air Filtration. *Nano Letters*, **2021**, 21, 8160-8165	11.5	0