

# Xufan Li

## List of Publications by Citations

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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.

55  
papers

3,267  
citations

29  
h-index

55  
g-index

55  
ext. papers

3,691  
ext. citations

9.7  
avg, IF

4.83  
L-index

#	Paper	IF	Citations
55	New yellow Ba <sub>0.93</sub> Eu <sub>0.07</sub> Al <sub>2</sub> O <sub>4</sub> phosphor for warm-white light-emitting diodes through single-emitting-center conversion. <i>Light: Science and Applications</i> , <b>2013</b> , 2, e50-e50	16.7	334
54	2D materials advances: from large scale synthesis and controlled heterostructures to improved characterization techniques, defects and applications. <i>2D Materials</i> , <b>2016</b> , 3, 042001	5.9	297
53	Artificial inorganic leafs for efficient photochemical hydrogen production inspired by natural photosynthesis. <i>Advanced Materials</i> , <b>2010</b> , 22, 951-6	24	216
52	Controlled vapor phase growth of single crystalline, two-dimensional GaSe crystals with high photoresponse. <i>Scientific Reports</i> , <b>2014</b> , 4, 5497	4.9	194
51	Two-dimensional GaSe/MoSe <sub>2</sub> misfit bilayer heterojunctions by van der Waals epitaxy. <i>Science Advances</i> , <b>2016</b> , 2, e1501882	14.3	190
50	Enhanced Light-Harvesting and Photocatalytic Properties in Morph-TiO <sub>2</sub> from Green-Leaf Biotemplates. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 45-56	15.6	184
49	Deep Learning of Atomically Resolved Scanning Transmission Electron Microscopy Images: Chemical Identification and Tracking Local Transformations. <i>ACS Nano</i> , <b>2017</b> , 11, 12742-12752	16.7	183
48	A roadmap for electronic grade 2D materials. <i>2D Materials</i> , <b>2019</b> , 6, 022001	5.9	133
47	Low-Frequency Raman Fingerprints of Two-Dimensional Metal Dichalcogenide Layer Stacking Configurations. <i>ACS Nano</i> , <b>2015</b> , 9, 6333-42	16.7	121
46	Thickness-dependent charge transport in few-layer MoS <sub>2</sub> field-effect transistors. <i>Nanotechnology</i> , <b>2016</b> , 27, 165203	3.4	96
45	Twisted MoSe <sub>2</sub> Bilayers with Variable Local Stacking and Interlayer Coupling Revealed by Low-Frequency Raman Spectroscopy. <i>ACS Nano</i> , <b>2016</b> , 10, 2736-44	16.7	95
44	In situ atomistic insight into the growth mechanisms of single layer 2D transition metal carbides. <i>Nature Communications</i> , <b>2018</b> , 9, 2266	17.4	89
43	Van der Waals Epitaxial Growth of Two-Dimensional Single-Crystalline GaSe Domains on Graphene. <i>ACS Nano</i> , <b>2015</b> , 9, 8078-88	16.7	87
42	Near infrared long-persistent phosphorescence in SrAl <sub>2</sub> O <sub>4</sub> :Eu <sup>2+</sup> ,Dy <sup>3+</sup> ,Er <sup>3+</sup> phosphors based on persistent energy transfer. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 231110	3.4	70
41	Isoelectronic Tungsten Doping in Monolayer MoSe <sub>2</sub> for Carrier Type Modulation. <i>Advanced Materials</i> , <b>2016</b> , 28, 8240-8247	24	69
40	Suppression of Defects and Deep Levels Using Isoelectronic Tungsten Substitution in Monolayer MoSe <sub>2</sub> . <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1603850	15.6	62
39	In situ edge engineering in two-dimensional transition metal dichalcogenides. <i>Nature Communications</i> , <b>2018</b> , 9, 2051	17.4	60

38	Red, Green, and Blue Luminescence from ZnGa <sub>2</sub> O <sub>4</sub> Nanowire Arrays. <i>Journal of Physical Chemistry Letters</i> , <b>2010</b> , 1, 354-357	6.4	58
37	Nanoforging Single Layer MoSe <sub>2</sub> Through Defect Engineering with Focused Helium Ion Beams. <i>Scientific Reports</i> , <b>2016</b> , 6, 30481	4.9	55
36	Edge-Controlled Growth and Etching of Two-Dimensional GaSe Monolayers. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 482-491	16.4	50
35	Nanostructured Zeolitic Imidazolate Frameworks Derived from Nanosized Zinc Oxide Precursors. <i>Crystal Growth and Design</i> , <b>2013</b> , 13, 1002-1005	3.5	47
34	Synthesis and hierarchical pore structure of biomorphic manganese oxide derived from woods. <i>Journal of the European Ceramic Society</i> , <b>2006</b> , 26, 3657-3664	6	44
33	Biomimetic photocatalyst system derived from the natural prototype in leaves for efficient visible-light-driven catalysis. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 2695		41
32	Revealing the preferred interlayer orientations and stackings of two-dimensional bilayer gallium selenide crystals. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 2712-7	16.4	37
31	Bacteria-based controlled assembly of metal chalcogenide hollow nanostructures with enhanced light-harvesting and photocatalytic properties. <i>Nanotechnology</i> , <b>2009</b> , 20, 085603	3.4	37
30	Graphitized hollow carbon spheres and yolk-structured carbon spheres fabricated by metal-catalyst-free chemical vapor deposition. <i>Carbon</i> , <b>2016</b> , 101, 57-61	10.4	34
29	Isotope-Engineering the Thermal Conductivity of Two-Dimensional MoS <sub>2</sub> . <i>ACS Nano</i> , <b>2019</b> , 13, 2481-2489	16.7	32
28	Bio-Inspired Bottom-Up Assembly of Diatom-Templated Ordered Porous Metal Chalcogenide Meso/Nanostructures. <i>European Journal of Inorganic Chemistry</i> , <b>2009</b> , 2009, 211-215	2.3	32
27	Strain tolerance of two-dimensional crystal growth on curved surfaces. <i>Science Advances</i> , <b>2019</b> , 5, eaav4028	16.7	29
26	Microstructure and Infrared Absorption of Biomorphic Chromium Oxides Templated by Wood Tissues. <i>Journal of the American Ceramic Society</i> , <b>2006</b> , 89, 3511-3515	3.8	28
25	Synthesis of biomorphic Al <sub>2</sub> O <sub>3</sub> based on natural plant templates and assembly of Ag nanoparticles controlled within the nanopores. <i>Microporous and Mesoporous Materials</i> , <b>2008</b> , 108, 204-212	5.3	22
24	Luminescent Zn <sub>2</sub> GeO <sub>4</sub> nanorod arrays and nanowires. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 7488-93	3.6	21
23	Self-assembly of graphene on carbon nanotube surfaces. <i>Scientific Reports</i> , <b>2013</b> , 3, 2353	4.9	21
22	Effect of Metal Doping and Vacancies on the Thermal Conductivity of Monolayer Molybdenum Diselenide. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 4921-4928	9.5	19
21	A facile way to synthesize biomorphic N-TiO <sub>2</sub> incorporated with Au nanoparticles with narrow size distribution and high stability. <i>Microporous and Mesoporous Materials</i> , <b>2008</b> , 116, 478-484	5.3	19

20	Electronically transparent graphene replicas of diatoms: a new technique for the investigation of frustule morphology. <i>Scientific Reports</i> , <b>2014</b> , 4, 6117	4.9	17
19	Atomic Insight into Thermolysis-Driven Growth of 2D MoS <sub>2</sub> . <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1902149	15.6	16
18	Surfactant-Mediated Growth and Patterning of Atomically Thin Transition Metal Dichalcogenides. <i>ACS Nano</i> , <b>2020</b> , 14, 6570-6581	16.7	16
17	Luminescent GeO <sub>2</sub> /n <sub>2</sub> GeO <sub>4</sub> hybrid one dimensional nanostructures. <i>CrystEngComm</i> , <b>2013</b> , 15, 2904	3.3	16
16	The Critical Role of Electrolyte Gating on the Hydrogen Evolution Performance of Monolayer MoS <sub>2</sub> . <i>Nano Letters</i> , <b>2019</b> , 19, 8118-8124	11.5	15
15	Persistent photoconductivity in two-dimensional Mo <sub>1-x</sub> W <sub>x</sub> Se <sub>2</sub> /MoSe <sub>2</sub> van der Waals heterojunctions. <i>Journal of Materials Research</i> , <b>2016</b> , 31, 923-930	2.5	14
14	New localized/delocalized emitting state of Eu <sup>2+</sup> in orange-emitting hexagonal EuAl <sub>2</sub> O <sub>4</sub> . <i>Scientific Reports</i> , <b>2014</b> , 4, 7101	4.9	13
13	Spatial Mapping of Thermal Boundary Conductance at Metal-Molybdenum Diselenide Interfaces. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 14418-14426	9.5	11
12	New Ternary Europium Aluminate Luminescent Nanoribbons for Advanced Photonics. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 1998-2006	15.6	11
11	Transformation of 2D group-III selenides to ultra-thin nitrides: enabling epitaxy on amorphous substrates. <i>Nanotechnology</i> , <b>2018</b> , 29, 47LT02	3.4	6
10	Revealing the Preferred Interlayer Orientations and Stackings of Two-Dimensional Bilayer Gallium Selenide Crystals. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 2750-2755	3.6	5
9	Crystal structures and optical properties of new quaternary strontium europium aluminate luminescent nanoribbons. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 778-788	7.1	5
8	Tip-induced local strain on MoS <sub>2</sub> /graphite detected by inelastic electron tunneling spectroscopy. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	4
7	Enhancing Hydrogen Evolution Activity of Monolayer Molybdenum Disulfide via a Molecular Proton Mediator. <i>ACS Catalysis</i> , <b>2021</b> , 11, 12159-12169	13.1	4
6	Transition Metal Dichalcogenides: Suppression of Defects and Deep Levels Using Isoelectronic Tungsten Substitution in Monolayer MoSe <sub>2</sub> (Adv. Funct. Mater. 19/2017). <i>Advanced Functional Materials</i> , <b>2017</b> , 27,	15.6	2
5	Assembly of metallic nanoparticles with controllable size in nanopores of biomorphic oxide fibers templated by cotton tissue. <i>Journal of Materials Research</i> , <b>2007</b> , 22, 755-762	2.5	2
4	The role of mid-gap phonon modes in thermal transport of transition metal dichalcogenides. <i>Journal of Physics Condensed Matter</i> , <b>2020</b> , 32, 025306	1.8	2
3	Nickel particle-enabled width-controlled growth of bilayer molybdenum disulfide nanoribbons. <i>Science Advances</i> , <b>2021</b> , 7, eabk1892	14.3	2

- 2 Luminescent Nanoribbons: New Ternary Europium Aluminate Luminescent Nanoribbons for Advanced Photonics (Adv. Funct. Mater. 16/2013). *Advanced Functional Materials*, **2013**, 23, 1978-1978 15.6
- 1 Laser Synthesis, Processing, and Spectroscopy of Atomically-Thin Two Dimensional Materials. *Springer Series in Materials Science*, **2018**, 1-37 0.9