

# Wei Lu

## List of Publications by Year in descending order

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60  
papers

1,514  
citations

394421

19  
h-index

345221

36  
g-index

62  
all docs

62  
docs citations

62  
times ranked

1710  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomimetic anti-freezing polymeric hydrogels: keeping soft-wet materials active in cold environments. <i>Materials Horizons</i> , 2021, 8, 351-369.	12.2	250
2	Plasma-induced, nitrogen-doped graphene-based aerogels for high-performance supercapacitors. <i>Light: Science and Applications</i> , 2016, 5, e16130-e16130.	16.6	152
3	Plasma Treatment for Nitrogen-Doped 3D Graphene Framework by a Conductive Matrix with Sulfur for High-Performance Li-S Batteries. <i>Small</i> , 2019, 15, e1804347.	10.0	97
4	A wide temperature-tolerant hydrogel electrolyte mediated by phosphoric acid towards flexible supercapacitors. <i>Chemical Engineering Journal</i> , 2021, 413, 127446.	12.7	66
5	Wnt/ $\beta$ -catenin signaling induces the transcription of cystathionine- $\beta$ -lyase, a stimulator of tumor in colon cancer. <i>Cellular Signalling</i> , 2014, 26, 2801-2808.	3.6	62
6	Ionic liquid polymer functionalized carbon nanotubes-doped poly(3,4-ethylenedioxythiophene) for highly-efficient solid-phase microextraction of carbamate pesticides. <i>Journal of Chromatography A</i> , 2016, 1444, 42-49.	3.7	61
7	Reduced graphene oxide (RGO)/Cu <sub>2</sub> S composite as catalytic counter electrode for quantum dot-sensitized solar cells. <i>Electrochimica Acta</i> , 2018, 277, 50-58.	5.2	61
8	Fabrication and Electrochemical Performance of PVA/CNT/PANI Flexible Films as Electrodes for Supercapacitors. <i>Nanoscale Research Letters</i> , 2020, 15, 151.	5.7	56
9	Flexible and wearable strain sensors based on conductive hydrogels. <i>Journal of Polymer Science</i> , 2022, 60, 2663-2678.	3.8	45
10	Low-Temperature-Resistant Flexible Solid Supercapacitors Based on Organohydrogel Electrolytes and Microvoid-Incorporated Reduced Graphene Oxide Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 12432-12441.	8.0	44
11	Cascade Approach to Highly Functionalized Biaryls by a Nucleophilic Aromatic Substitution with Arylhydroxylamines. <i>Organic Letters</i> , 2019, 21, 2894-2898.	4.6	38
12	Morphological control of RGO/CdS hydrogels for energy storage. <i>CrystEngComm</i> , 2016, 18, 1090-1095.	2.6	36
13	A photo-assisted rechargeable battery: synergy, compatibility, and stability of a TiO <sub>2</sub> /dye/Cu <sub>2</sub> S bifunctional composite electrode. <i>Nanoscale</i> , 2020, 12, 530-537.	5.6	35
14	The formation mechanism of voids in physical vapor deposited AlN epilayer during high temperature annealing. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	28
15	Anti-inflammatory action of physalin A by blocking the activation of NF- $\kappa$ B signaling pathway. <i>Journal of Ethnopharmacology</i> , 2021, 267, 113490.	4.1	24
16	The Effect of Elemental Doping on Nickel-Rich NCM Cathode Materials of Lithium Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2022, 126, 151-159.	3.1	24
17	Porous Carbon Networks Derived From Graphitic Carbon Nitride for Efficient Oxygen Reduction Reaction. <i>Nanoscale Research Letters</i> , 2019, 14, 249.	5.7	22
18	Three-Dimensional Carbon Nitride Nanowire Scaffold for Flexible Supercapacitors. <i>Nanoscale Research Letters</i> , 2019, 14, 98.	5.7	22

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19	Improved nucleation of AlN on <i>in situ</i> nitrogen doped graphene for GaN quasi-van der Waals epitaxy. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	22
20	Transition-metal-free aerobic C=O bond formation via C=N bond cleavage. <i>Organic Chemistry Frontiers</i> , 2020, 7, 1077-1081.	4.5	22
21	Identification of $\beta$ -carboline and canthinone alkaloids as anti-inflammatory agents but with different inhibitory profile on the expression of iNOS and COX-2 in lipopolysaccharide-activated RAW 264.7 macrophages. <i>Journal of Natural Medicines</i> , 2019, 73, 124-130.	2.3	20
22	Preparation and application of graphene-based wearable sensors. <i>Nano Research</i> , 2022, 15, 9850-9865.	10.4	20
23	Graphitic carbon nitride modified {001}-faceted TiO <sub>2</sub> nanosheet photoanodes for efficient quantum dot sensitized solar cells. <i>Superlattices and Microstructures</i> , 2017, 109, 860-868.	3.1	16
24	Reduced graphene oxide/g-C <sub>3</sub> N <sub>4</sub> modified carbon fibers for high performance fiber supercapacitors. <i>New Journal of Chemistry</i> , 2021, 45, 923-929.	2.8	16
25	Enhanced performance of asymmetric supercapacitor based on NiZn-LDH@NiCoSe <sub>2</sub> electrode materials. <i>Nanotechnology</i> , 2022, 33, 295402.	2.6	16
26	Neuron-like hierarchical manganese sulfide@Cu <sub>2</sub> S core/shell arrays on Ni foam as an advanced electrode for an asymmetric supercapacitor. <i>CrystEngComm</i> , 2020, 22, 6047-6056.	2.6	15
27	Compressible piezoresistive pressure sensor based on Ag nanowires wrapped conductive carbonized melamine foam. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, 1.	2.3	14
28	Enhanced performance of flexible ultraviolet photodetectors based on carbon nitride quantum dot/ZnO nanowire nanocomposites. <i>Materials Research Express</i> , 2019, 6, 045002.	1.6	11
29	<i>In vitro</i> anti-inflammatory activities of nucleofieine H as a natural alkaloid from <i>Nauclea officinalis</i> Pierre ex Pitard, through inhibition of the iNOS pathway in LPS-activated RAW 264.7 macrophages. <i>Natural Product Research</i> , 2020, 34, 2694-2697.	1.8	11
30	Synergistically Controlled Mechanism of Sodium Birnessite with a Larger Interlayer Distance for Fast Ion Intercalation toward Sodium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2020, 124, 28431-28436.	3.1	11
31	Cascade ChanéLam Câ”O Coupling/[3,3]â€Rearrangement of Arylhydroxylamines with Arylboronic Acids Toward NOBIN Analogues. <i>Advanced Synthesis and Catalysis</i> , 2021, 363, 1733-1738.	4.3	11
32	Reduced graphene oxide/polyaniline wrapped carbonized sponge with elasticity for energy storage and pressure sensing. <i>New Journal of Chemistry</i> , 2021, 45, 7860-7866.	2.8	11
33	Anti-inflammatory action of ambuic acid, a natural product isolated from the solid culture of <i>Pestalotiopsis neglecta</i> , through blocking ERK/JNK mitogen-activated protein kinase signaling pathway. <i>Experimental and Therapeutic Medicine</i> , 2018, 16, 1538-1546.	1.8	10
34	Synthesis of Three Dimensional Porous Carbon Materials Using g-C <sub>3</sub> N <sub>4</sub> as Template for Supercapacitors. <i>Journal of the Electrochemical Society</i> , 2019, 166, A3564-A3569.	2.9	10
35	Boosting Power Conversion Efficiency of Quantum Dot-Sensitized Solar Cells by Integrating Concentrating Photovoltaic Concept with Double Photoanodes. <i>Nanoscale Research Letters</i> , 2020, 15, 188.	5.7	10
36	Highly Dispersed Surfactant-Free Amorphous NiCoB Nanoparticles and Their Remarkable Catalytic Activity for Hydrogen Generation from Ammonia Borane Dehydrogenation. <i>Catalysis Letters</i> , 2018, 148, 1739-1749.	2.6	9

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37	A facile synthetic strategy of free-standing holey graphene paper as sulfur host for high-performance flexible lithium sulfur batteries. <i>Journal of Electroanalytical Chemistry</i> , 2020, 876, 114728.	3.8	9
38	Anti-inflammatory effects of three withanolides isolated from <i>Physalis angulata</i> L. in LPS-activated RAW 264.7 cells through blocking NF- $\kappa$ B signaling pathway. <i>Journal of Ethnopharmacology</i> , 2021, 276, 114186.	4.1	9
39	$\beta$ -1,6 GlcNAc Branches-Modified PTPRT Attenuates Its Activity and Promotes Cell Migration by STAT3 Pathway. <i>PLoS ONE</i> , 2014, 9, e98052.	2.5	9
40	Photothermal Diatomite/Carbon Nanotube Combined Aerogel for High-Efficiency Solar Steam Generation and Wastewater Purification. <i>Solar Rrl</i> , 2022, 6, .	5.8	9
41	Three-dimensional reduced-graphene/MnO <sub>2</sub> prepared by plasma treatment as high-performance supercapacitor electrodes. <i>Materials Research Express</i> , 2018, 5, 065504.	1.6	8
42	<i>In situ</i> fabrication of Al surface plasmon nanoparticles by metal-organic chemical vapor deposition for enhanced performance of AlGaN deep ultraviolet detectors. <i>Nanoscale Advances</i> , 2020, 2, 1854-1858.	4.6	7
43	(3R, 7R)-7-Acetoxy-9-Oxo-de-O-Methylsiodiplodin, a Secondary Metabolite of <i>Penicillium</i> Sp., Inhibits LPS-Mediated Inflammation in RAW 264.7 Macrophages through Blocking ERK/MAPKs and NF- $\kappa$ B Signaling Pathways. <i>Inflammation</i> , 2019, 42, 1463-1473.	3.8	6
44	Carbon nanoparticle template assisted formation of mesoporous TiO <sub>2</sub> photoanodes for quantum dot-sensitized solar cells. <i>New Journal of Chemistry</i> , 2019, 43, 5374-5381.	2.8	6
45	Cobalt and nitrogen codoped carbon nanotubes derived from a graphitic C <sub>3</sub> N <sub>4</sub> template as an electrocatalyst for the oxygen reduction reaction. <i>Nanoscale Advances</i> , 2020, 2, 3963-3971.	4.6	6
46	Boosting Low-Temperature Resistance of Energy Storage Devices by Photothermal Conversion Effects. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 23400-23407.	8.0	6
47	Improved performance of quantum dot-sensitized solar cells based on TiO <sub>2</sub> nanoparticle/nanorod photoanodes. <i>Journal of Alloys and Compounds</i> , 2017, 715, 337-343.	5.5	5
48	$\beta$ -1,6 GlcNAc branches-modified protein tyrosine phosphatase alpha enhances its stability and promotes focal adhesion formation in MCF-7 cells. <i>Biochemical and Biophysical Research Communications</i> , 2017, 482, 1455-1461.	2.1	5
49	Combined photoanodes of TiO <sub>2</sub> nanoparticles and {001}-faceted TiO <sub>2</sub> nanosheets for quantum dot-sensitized solar cells. <i>New Journal of Chemistry</i> , 2019, 43, 8551-8556.	2.8	5
50	Flexible and Stretchable Energy Storage Device Based on Ni(HCO <sub>3</sub> ) <sub>2</sub> Nanosheet Decorated Carbon Nanotube Electrodes for Capacitive Sensor. <i>Journal of the Electrochemical Society</i> , 2019, 166, A4014-A4019.	2.9	5
51	The g-C <sub>3</sub> N <sub>4</sub> Quantum Dot Decorated g-C <sub>3</sub> N <sub>4</sub> Sheet/Reduced Graphene Oxide Composite as Efficient Metal-Free Electrocatalyst for Oxygen Reduction Reaction. <i>Journal of the Electrochemical Society</i> , 2020, 167, 100534.	2.9	5
52	Significant efficiency enhancement of CdSe/CdS quantum-dot sensitized solar cells by black TiO <sub>2</sub> engineered with ultrashort filamentating pulses. <i>Applied Surface Science Advances</i> , 2021, 6, 100142.	6.8	5
53	The van der Waals Epitaxy of High-Quality Polar Gallium Nitride for High-Response Ultraviolet Photodetectors with Polarization Electric Field Modulation. <i>Advanced Electronic Materials</i> , 0, , 2100759.	5.1	5
54	Accelerated Redox Conversion by CoMoS <sub>3</sub> /CoS Synergistic Interactions for High-Performance Lithium Sulfur Batteries. <i>Journal of Electroanalytical Chemistry</i> , 2022, , 116025.	3.8	5

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55	Delayed autumnal leaf senescence following nutrient fertilization results in altered nitrogen resorption. <i>Tree Physiology</i> , 2022, 42, 1549-1559.	3.1	5
56	A sea cucumber-like BiOBr nanosheet/Zn <sub>2</sub> GeO <sub>4</sub> nanorod heterostructure for enhanced visible light driven photocatalytic activity. <i>Materials Research Express</i> , 2018, 5, 015009.	1.6	4
57	Improved performance of quantum dot-sensitized solar cells by full-spectrum utilization. <i>Superlattices and Microstructures</i> , 2020, 148, 106730.	3.1	4
58	A 3D honeycomb graphene structure for wearable piezoresistive pressure sensor with high sensitivity. <i>Journal of Materials Science: Materials in Electronics</i> , 0, , 1.	2.2	2
59	High coercivity Pr <sub>2</sub> Fe <sub>14</sub> B magnetic nanoparticles by a mechanochemical method. <i>RSC Advances</i> , 2021, 11, 12315-12320.	3.6	1
60	Highly transparent and flexible graphitic C <sub>3</sub> N <sub>4</sub> nanowire/PVA/PEDOT:PSS supercapacitors for transparent electronic devices. <i>Functional Materials Letters</i> , 2020, 13, 2051006.	1.2	0