Yu Lin Zhong

List of Publications by Citations

77 papers	4,374 citations	34 h-index	66 g-index
81 ext. papers	5,025 ext. citations	8.8 avg, IF	5.7 L-index

#	Paper	IF	Citations
77	Hydrothermal Dehydration for the "Green" Reduction of Exfoliated Graphene Oxide to Graphene and Demonstration of Tunable Optical Limiting Properties. *Chemistry of Materials*, **2009**, 21, 2950-2956	9.6	1285
76	Large area, continuous, few-layered graphene as anodes in organic photovoltaic devices. *Applied Physics Letters*, **2009**, 95, 063302	3.4	368
75	Scalable production of graphene via wet chemistry: progress and challenges. *Materials Today*, **2015**, 18, 73-78	21.8	209
74	Electrochemical exfoliation of graphite and production of functional graphene. *Current Opinion in Colloid and Interface Science*, **2015**, 20, 329-338	7.6	202
73	Ultrathin Nitrogen-Doped Holey Carbon@Graphene Bifunctional Electrocatalyst for Oxygen Reduction and Evolution Reactions in Alkaline and Acidic Media. *Angewandte Chemie - International Edition*, **2018**, 57, 16511-16515	16.4	190
72	Synthesis and Transfer of Large-Area Monolayer WS2 Crystals: Moving Toward the Recyclable Use of Sapphire Substrates. *ACS Nano*, **2015**, 9, 6178-87	16.7	163
71	Enhanced electrochemical expansion of graphite for in situ electrochemical functionalization. *Journal of the American Chemical Society*, **2012**, 134, 17896-9	16.4	138
70	One-step solid phase synthesis of a highly efficient and robust cobalt pentlandite electrocatalyst for the oxygen evolution reaction. *Journal of Materials Chemistry A*, **2016**, 4, 18314-18321	13	80
69	Encapsulation of Plasmid DNA by Nanoscale Metal-Organic Frameworks for Efficient Gene Transportation and Expression. *Advanced Materials*, **2019**, 31, e1901570	24	76
68	Low-temperature processed In2S3 electron transport layer for efficient hybrid perovskite solar cells. *Nano Energy*, **2017**, 36, 102-109	17.1	74
67	Mechanically-Assisted Electrochemical Production of Graphene Oxide. *Chemistry of Materials*, **2016**, 28, 8429-8438	9.6	67
66	Wavelength-tunable waveguides based on polycrystalline organic-inorganic perovskite microwires. *Nanoscale*, **2016**, 8, 6258-64	7.7	66
65	Magnetic Electrodeposition of the Hierarchical Cobalt Oxide Nanostructure from Spent Lithium-Ion Batteries: Its Application as a Supercapacitor Electrode. *Journal of Physical Chemistry C*, **2018**, 122, 12200-12206	3.8	59
64	Electrostatically self-assembled polyoxometalates on molecular-dye-functionalized diamond. *Journal of the American Chemical Society*, **2009**, 131, 18293-8	16.4	57
63	A versatile PDMS submicrobead/graphene oxide nanocomposite ink for the direct ink writing of wearable micron-scale tactile sensors. *Applied Materials Today*, **2019**, 16, 482-492	6.6	56
62	Cell adhesion properties on photochemically functionalized diamond. *Langmuir*, **2007**, 23, 5615-21	4	56
61	Recent Progress of Direct Ink Writing of Electronic Components for Advanced Wearable Devices. *ACS Applied Electronic Materials*, **2019**, 1, 1718-1734	4	54

60	Suzuki Coupling of Aryl Organics on Diamond. *Chemistry of Materials*, **2008**, 20, 3137-3144	9.6	51
59	Facile electrochemical approach for the production of graphite oxide with tunable chemistry. *Carbon*, **2017**, 112, 185-191	10.4	48
58	Bifunctional FePt Core□Shell and Hollow Spheres:□Sonochemical Preparation and Self-Assembly. *Chemistry of Materials*, **2007**, 19, 2566-2572	9.6	48
57	Porous MnO/Mn3O4 nanocomposites for electrochemical energy storage. *Nano Energy*, **2015**, 13, 702-708	17.1	46
56	Remarkably enhanced water splitting activity of nickel foam due to simple immersion in a ferric nitrate solution. *Nano Research*, **2018**, 11, 3959-3971	10	45
55	Single-Atom Electrocatalysts for Lithium Sulfur Batteries: Progress, Opportunities, and Challenges **2020**, 2, 1450-1463		44
54	Solvothermal Growth of Bismuth Chalcogenide Nanoplatelets by the Oriented Attachment Mechanism: An in Situ PXRD Study. *Chemistry of Materials*, **2015**, 27, 3471-3482	9.6	43
53	Optimizing biosensing properties on undecylenic Acid-functionalized diamond. *Langmuir*, **2007**, 23, 5824-30	4	42
52	Diamond-based molecular platform for photoelectrochemistry. *Journal of the American Chemical Society*, **2008**, 130, 17218-9	16.4	41
51	Ultrathin Nitrogen-Doped Holey Carbon@Graphene Bifunctional Electrocatalyst for Oxygen Reduction and Evolution Reactions in Alkaline and Acidic Media. *Angewandte Chemie*, **2018**, 130, 16749-16753	3.6	41
50	Fluorescent nanogel of arsenic sulfide nanoclusters. *Angewandte Chemie - International Edition*, **2009**, 48, 6282-5	16.4	40
49	Recent Advances in Perovskite-Based Building-Integrated Photovoltaics. *Advanced Materials*, **2020**, 32, e2000631	24	37
48	Syntheses and catalytic activities of Group 4 metal complexes derived from C(cage)-appended cyclohexyloxocarborane trianion. *Journal of Organometallic Chemistry*, **2005**, 690, 2802-2808	2.3	35
47	Defect Engineering in Titanium-Based Oxides for Electrochemical Energy Storage Devices. *Electrochemical Energy Reviews*, **2020**, 3, 286-343	29.3	34
46	Efficient Excitation of Multiple Plasmonic Modes on Three-Dimensional Graphene: An Unexplored Dimension. *ACS Photonics*, **2016**, 3, 1986-1992	6.3	34
45	Mild and efficient functionalization of hydrogen-terminated Si(111) via sonochemical activated hydrosilylation. *Journal of the American Chemical Society*, **2011**, 133, 8118-21	16.4	34
44	The chemistry of C-H bond activation on diamond. *Chemistry - an Asian Journal*, **2010**, 5, 1532-40	4.5	34
43	Oxygen-Terminated Nanocrystalline Diamond Film as an Efficient Anode in Photovoltaics. *Advanced Functional Materials*, **2010**, 20, 1313-1318	15.6	34

42	Large-Scale Production of Bismuth Chalcogenide and Graphene Heterostructure and Its Application for Flexible Broadband Photodetector. *Advanced Electronic Materials*, **2016**, 2, 1600077	6.4	29
41	W18O49 nanowires-graphene nanocomposite for asymmetric supercapacitors employing AlCl3 aqueous electrolyte. *Chemical Engineering Journal*, **2021**, 409, 128216	14.7	27
40	Scalable Production of Graphene Oxide Using a 3D-Printed Packed-Bed Electrochemical Reactor with a Boron-Doped Diamond Electrode. *ACS Applied Nano Materials*, **2019**, 2, 867-878	5.6	25
39	Ca2+ and Ga3+ doped LaMnO3 perovskite as a highly efficient and stable catalyst for two-step thermochemical water splitting. *Sustainable Energy and Fuels*, **2017**, 1, 1013-1017	5.8	23
38	The role of electrolyte acid concentration in the electrochemical exfoliation of graphite: Mechanism and synthesis of electrochemical graphene oxide. *Nano Materials Science*, **2019**, 1, 215-223	10.2	23
37	Design of three-dimensional hierarchical TiO2/SrTiO3 heterostructures towards selective CO2 photoreduction. *Inorganic Chemistry Frontiers*, **2019**, 6, 1667-1674	6.8	20
36	Direct photochemical functionalization of Si(111) with undecenol. *Langmuir*, **2011**, 27, 1796-802	4	19
35	Nanocontact-induced catalytic activation in palladium nanoparticles. *Nanoscale*, **2009**, 1, 391-4	7.7	19
34	Doping Strategies in Sb S Thin Films for Solar Cells. *Small*, **2021**, 17, e2100241	11	18
33	NiCoO hole transport materials: gap state assisted hole extraction with superior electrical conductivity. *Journal of Materials Chemistry A*, **2019**, 7, 20905-20910	13	17
32	Room temperature production of graphene oxide with thermally labile oxygen functional groups for improved lithium ion battery fabrication and performance. *Journal of Materials Chemistry A*, **2019**, 7, 9646-9655	13	16
31	Electrochemically-derived graphene oxide membranes with high stability and superior ionic sieving. *Chemical Communications*, **2019**, 55, 4075-4078	5.8	15
30	A novel carbazole derivative containing fluorobenzene unit: aggregation-induced fluorescence emission, polymorphism, mechanochromism and non-reversible thermo-stimulus fluorescence. *CrystEngComm*, **2018**, 20, 2772-2779	3.3	15
29	Hollow melon-seed-shaped lithium iron phosphate micro- and sub-micrometer plates for lithium-ion batteries. *ChemSusChem*, **2014**, 7, 1618-22	8.3	15
28	UV-visible-near infrared photoabsorption and photodetection using close-packed metallic gold nanoparticle network. *Journal of Applied Physics*, **2010**, 107, 053510	2.5	15
27	Electrolyte Effect on Electrocatalytic Hydrogen Evolution Performance of One-Dimensional CobaltDithiolene MetalOrganic Frameworks: A Theoretical Perspective. *ACS Applied Energy Materials*, **2018**, 1, 1688-1694	6.1	14
26	Enhanced electrochemical production and facile modification of graphite oxide for cost-effective sodium ion battery anodes. *Carbon*, **2021**, 177, 71-78	10.4	14
25	A Multifunctional Wearable Device with a Graphene/Silver Nanowire Nanocomposite for Highly Sensitive Strain Sensing and Drug Delivery. *Journal of Carbon Research*, **2019**, 5, 17	3.3	12

24	Challenges of Industrial-Scale Graphene Oxide Production **2016**, 410-431		12
23	Highly Dispersed Ru Nanoparticles on Boron-Doped Ti C T (MXene) Nanosheets for Synergistic Enhancement of Electrocatalytic Hydrogen Evolution. *Small*, **2021**, 17, e2102218	11	12
22	Enhanced Thermochemical Water Splitting through Formation of Oxygen Vacancy in La Sr BO (B=Cr, Mn, Fe, Co, and Ni) Perovskites. *ChemPlusChem*, **2018**, 83, 924-928	2.8	10
21	Electrochemically Exfoliated Platinum Dichalcogenide Atomic Layers for High-Performance Air-Stable Infrared Photodetectors. *ACS Applied Materials & Interfaces*, **2021**, 13, 8518-8527	9.5	9
20	Tungsten-Doped Nanocrystalline V6O13 Nanoparticles as Low-Cost and High-Performance Electrodes for Energy Storage Devices. *Energy Technology*, **2019**, 7, 1801041	3.5	8
19	Enhanced Thermochemical H2 Production on Ca-Doped Lanthanum Manganite Perovskites Through Optimizing the Dopant Level and Re-oxidation Temperature. *Acta Metallurgica Sinica (English Letters)*, **2018**, 31, 431-439	2.5	6
18	Ru(bpy)32+-sensitized {001} facets LiCoO2 nanosheets catalyzed CO2 reduction reaction with 100% carbonaceous products. *Nano Research*,1	10	6
17	Substituent effects on the kinetics of bifunctional styrene SAM formation on H-terminated Si. *Langmuir*, **2014**, 30, 7687-94	4	5
16	Potassium spin polarization lifetime for a 30-carbon chain siloxane film. *Journal of Chemical Physics*, **2012**, 137, 174703	3.9	5
15	Sustainable Recycling of Formic Acid by Bio-Catalytic CO2 Capture and Re-Hydrogenation. *Journal of Carbon Research*, **2019**, 5, 22	3.3	4
14	Fluorescent Nanogel of Arsenic Sulfide Nanoclusters. *Angewandte Chemie*, **2009**, 121, 6400-6403	3.6	4
13	Scalable Spray Drying Production of Amorphous V O -EGO 2D Heterostructured Xerogels for High-Rate and High-Capacity Aqueous Zinc Ion Batteries.. *Small*, **2022**, 18, e2105761	11	4
12	Elemental 2D Materials: Solution-Processed Synthesis and Applications in Electrochemical Ammonia Production. *Advanced Functional Materials*,2107280	15.6	4
11	Harnessing the Potential of Graphitic Carbon Nitride for Optoelectronic Applications. *Advanced Optical Materials*, **2021**, 9, 2100146	8.1	4
10	Enhanced Electrohydrodynamics for Electrospinning a Highly Sensitive Flexible Fiber-Based Piezoelectric Sensor. *ACS Applied Electronic Materials*, **2022**, 4, 1301-1310	4	4
9	Phosphorus and Sulfur Co-Doped Cobaltous Oxide Synthesized by an Inorganic-Salt-Assisted Method: Reaction Mechanism and Electrocatalytic Application. *ChemPlusChem*, **2020**, 85, 1602-1611	2.8	2
8	Flexible and stretchable inorganic electronics: Conductive materials, fabrication strategy, and applicable devices **2020**, 199-252		2
7	Nanomaterials and Composites for Energy Conversion and Storage. *Jom*, **2021**, 73, 2752-2753	2.1	2

6	Graphene Photodetectors: Large-Scale Production of Bismuth Chalcogenide and Graphene Heterostructure and Its Application for Flexible Broadband Photodetector (Adv. Electron. Mater. 5/2016). *Advanced Electronic Materials*, **2016**, 2,	6.4	1
5	Exfoliated 2D Antimonene-Based Structures for Light-Harvesting Photoactive Layer of Highly Stable Solar Cells. *Small Structures*,2200038	8.7	1
4	Heat and Electro-Responsive Nanomaterials for Smart Windows. *Springer Series in Materials Science*, **2020**, 215-243	0.9	0
3	Fast and cost-effective room temperature synthesis of high quality graphene oxide with excellent structural intactness. *Sustainable Materials and Technologies*, **2020**, 25, e00198	5.3	0
2	Facile Synthesis of Boron-Doped Reduced Electrochemical Graphene Oxide for Sodium Ion Battery Anode. *Jom*, **2021**, 73, 2531	2.1	0
1	A focus review on 3D printing of wearable energy storage devices		0