

# Yu Lin Zhong

## List of Publications by Year in descending order

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77  
papers

5,759  
citations

101496

36  
h-index

79644

73  
g-index

81  
all docs

81  
docs citations

81  
times ranked

9814  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrothermal Dehydration for the "Green" Reduction of Exfoliated Graphene Oxide to Graphene and Demonstration of Tunable Optical Limiting Properties. <i>Chemistry of Materials</i> , 2009, 21, 2950-2956.	3.2	1,430
2	Large area, continuous, few-layered graphene as anodes in organic photovoltaic devices. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	394
3	Scalable production of graphene via wet chemistry: progress and challenges. <i>Materials Today</i> , 2015, 18, 73-78.	8.3	265
4	Electrochemical exfoliation of graphite and production of functional graphene. <i>Current Opinion in Colloid and Interface Science</i> , 2015, 20, 329-338.	3.4	262
5	Ultrathin Nitrogen-Doped Holey Carbon@Graphene Bifunctional Electrocatalyst for Oxygen Reduction and Evolution Reactions in Alkaline and Acidic Media. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16511-16515.	7.2	261
6	Synthesis and Transfer of Large-Area Monolayer WS <sub>2</sub> Crystals: Moving Toward the Recyclable Use of Sapphire Substrates. <i>ACS Nano</i> , 2015, 9, 6178-6187.	7.3	200
7	Enhanced Electrochemical Expansion of Graphite for <i>in Situ</i> Electrochemical Functionalization. <i>Journal of the American Chemical Society</i> , 2012, 134, 17896-17899.	6.6	163
8	Encapsulation of Plasmid DNA by Nanoscale Metal-Organic Frameworks for Efficient Gene Transportation and Expression. <i>Advanced Materials</i> , 2019, 31, e1901570.	11.1	130
9	Recent Progress of Direct Ink Writing of Electronic Components for Advanced Wearable Devices. <i>ACS Applied Electronic Materials</i> , 2019, 1, 1718-1734.	2.0	108
10	Single-Atom Electrocatalysts for Lithium Sulfur Batteries: Progress, Opportunities, and Challenges. , 2020, 2, 1450-1463.		108
11	A versatile PDMS submicrobead/graphene oxide nanocomposite ink for the direct ink writing of wearable micron-scale tactile sensors. <i>Applied Materials Today</i> , 2019, 16, 482-492.	2.3	106
12	One-step solid phase synthesis of a highly efficient and robust cobalt pentlandite electrocatalyst for the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2016, 4, 18314-18321.	5.2	97
13	Mechanically-Assisted Electrochemical Production of Graphene Oxide. <i>Chemistry of Materials</i> , 2016, 28, 8429-8438.	3.2	91
14	Remarkably enhanced water splitting activity of nickel foam due to simple immersion in a ferric nitrate solution. <i>Nano Research</i> , 2018, 11, 3959-3971.	5.8	88
15	Low-temperature processed In <sub>2</sub> S <sub>3</sub> electron transport layer for efficient hybrid perovskite solar cells. <i>Nano Energy</i> , 2017, 36, 102-109.	8.2	87
16	Highly Dispersed Ru Nanoparticles on Boron-Doped Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> (MXene) Nanosheets for Synergistic Enhancement of Electrocatalytic Hydrogen Evolution. <i>Small</i> , 2021, 17, e2102218.	5.2	83
17	Recent Advances in Perovskite-Based Building-Integrated Photovoltaics. <i>Advanced Materials</i> , 2020, 32, e2000631.	11.1	80
18	Magnetic Electrodeposition of the Hierarchical Cobalt Oxide Nanostructure from Spent Lithium-Ion Batteries: Its Application as a Supercapacitor Electrode. <i>Journal of Physical Chemistry C</i> , 2018, 122, 12200-12206.	1.5	77

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19	Wavelength-tunable waveguides based on polycrystalline organic-inorganic perovskite microwires. <i>Nanoscale</i> , 2016, 8, 6258-6264.	2.8	76
20	W18O49 nanowires-graphene nanocomposite for asymmetric supercapacitors employing AlCl <sub>3</sub> aqueous electrolyte. <i>Chemical Engineering Journal</i> , 2021, 409, 128216.	6.6	72
21	Electrostatically Self-Assembled Polyoxometalates on Molecular-Dye-Functionalized Diamond. <i>Journal of the American Chemical Society</i> , 2009, 131, 18293-18298.	6.6	64
22	Porous MnO/Mn <sub>3</sub> O <sub>4</sub> nanocomposites for electrochemical energy storage. <i>Nano Energy</i> , 2015, 13, 702-708.	8.2	62
23	Doping Strategies in Sb <sub>2</sub> S <sub>3</sub> Thin Films for Solar Cells. <i>Small</i> , 2021, 17, e2100241.	5.2	62
24	Cell Adhesion Properties on Photochemically Functionalized Diamond. <i>Langmuir</i> , 2007, 23, 5615-5621.	1.6	61
25	Facile electrochemical approach for the production of graphite oxide with tunable chemistry. <i>Carbon</i> , 2017, 112, 185-191.	5.4	59
26	Suzuki Coupling of Aryl Organics on Diamond. <i>Chemistry of Materials</i> , 2008, 20, 3137-3144.	3.2	55
27	Bifunctional FePt Core-Shell and Hollow Spheres: Sonochemical Preparation and Self-Assembly. <i>Chemistry of Materials</i> , 2007, 19, 2566-2572.	3.2	53
28	Defect Engineering in Titanium-Based Oxides for Electrochemical Energy Storage Devices. <i>Electrochemical Energy Reviews</i> , 2020, 3, 286-343.	13.1	52
29	Solvothermal Growth of Bismuth Chalcogenide Nanoplatelets by the Oriented Attachment Mechanism: An in Situ PXRD Study. <i>Chemistry of Materials</i> , 2015, 27, 3471-3482.	3.2	51
30	Ultrathin Nitrogen-Doped Holey Carbon@Graphene Bifunctional Electrocatalyst for Oxygen Reduction and Evolution Reactions in Alkaline and Acidic Media. <i>Angewandte Chemie</i> , 2018, 130, 16749-16753.	1.6	49
31	Fluorescent Nanogel of Arsenic Sulfide Nanoclusters. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 6282-6285.	7.2	46
32	Optimizing Biosensing Properties on Undecylenic Acid-Functionalized Diamond. <i>Langmuir</i> , 2007, 23, 5824-5830.	1.6	43
33	Diamond-Based Molecular Platform for Photoelectrochemistry. <i>Journal of the American Chemical Society</i> , 2008, 130, 17218-17219.	6.6	43
34	Efficient Excitation of Multiple Plasmonic Modes on Three-Dimensional Graphene: An Unexplored Dimension. <i>ACS Photonics</i> , 2016, 3, 1986-1992.	3.2	42
35	Scalable Production of Graphene Oxide Using a 3D-Printed Packed-Bed Electrochemical Reactor with a Boron-Doped Diamond Electrode. <i>ACS Applied Nano Materials</i> , 2019, 2, 867-878.	2.4	41
36	The Chemistry of C-H Bond Activation on Diamond. <i>Chemistry - an Asian Journal</i> , 2010, 5, 1532-1540.	1.7	40

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37	Mild and Efficient Functionalization of Hydrogen-Terminated Si(111) via Sonochemical Activated Hydrosilylation. <i>Journal of the American Chemical Society</i> , 2011, 133, 8118-8121.	6.6	37
38	Ca <sup>2+</sup> and Ga <sup>3+</sup> doped LaMnO <sub>3</sub> perovskite as a highly efficient and stable catalyst for two-step thermochemical water splitting. <i>Sustainable Energy and Fuels</i> , 2017, 1, 1013-1017.	2.5	37
39	Syntheses and catalytic activities of Group 4 metal complexes derived from C(cage)-appended cyclohexyloxocarborane trianion. <i>Journal of Organometallic Chemistry</i> , 2005, 690, 2802-2808.	0.8	36
40	Oxygen-Terminated Nanocrystalline Diamond Film as an Efficient Anode in Photovoltaics. <i>Advanced Functional Materials</i> , 2010, 20, 1313-1318.	7.8	35
41	The role of electrolyte acid concentration in the electrochemical exfoliation of graphite: Mechanism and synthesis of electrochemical graphene oxide. <i>Nano Materials Science</i> , 2019, 1, 215-223.	3.9	35
42	Enhanced electrochemical production and facile modification of graphite oxide for cost-effective sodium ion battery anodes. <i>Carbon</i> , 2021, 177, 71-78.	5.4	34
43	Large-Scale Production of Bismuth Chalcogenide and Graphene Heterostructure and Its Application for Flexible Broadband Photodetector. <i>Advanced Electronic Materials</i> , 2016, 2, 1600077.	2.6	33
44	Design of three-dimensional hierarchical TiO <sub>2</sub> /SrTiO <sub>3</sub> heterostructures towards selective CO <sub>2</sub> photoreduction. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 1667-1674.	3.0	33
45	Electrolyte Effect on Electrocatalytic Hydrogen Evolution Performance of One-Dimensional Cobalt-Dithiolene Metal-Organic Frameworks: A Theoretical Perspective. <i>ACS Applied Energy Materials</i> , 2018, 1, 1688-1694.	2.5	27
46	Room temperature production of graphene oxide with thermally labile oxygen functional groups for improved lithium ion battery fabrication and performance. <i>Journal of Materials Chemistry A</i> , 2019, 7, 9646-9655.	5.2	27
47	A Multifunctional Wearable Device with a Graphene/Silver Nanowire Nanocomposite for Highly Sensitive Strain Sensing and Drug Delivery. <i>Journal of Carbon Research</i> , 2019, 5, 17.	1.4	26
48	Ru(bpy) <sub>3</sub> <sup>2+</sup> -sensitized {001} facets LiCoO <sub>2</sub> nanosheets catalyzed CO <sub>2</sub> reduction reaction with 100% carbonaceous products. <i>Nano Research</i> , 2022, 15, 1061-1068.	5.8	24
49	Scalable Spray Drying Production of Amorphous V <sub>2</sub> O <sub>5</sub> -EGO 2D Heterostructured Xerogels for High-Rate and High-Capacity Aqueous Zinc Ion Batteries. <i>Small</i> , 2022, 18, e2105761.	5.2	24
50	Ni-Co-O hole transport materials: gap state assisted hole extraction with superior electrical conductivity. <i>Journal of Materials Chemistry A</i> , 2019, 7, 20905-20910.	5.2	23
51	Electrochemically Exfoliated Platinum Dichalcogenide Atomic Layers for High-Performance Air-Stable Infrared Photodetectors. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 8518-8527.	4.0	23
52	A focus review on 3D printing of wearable energy storage devices. , 2022, 4, 1242-1261.		23
53	Harnessing the Potential of Graphitic Carbon Nitride for Optoelectronic Applications. <i>Advanced Optical Materials</i> , 2021, 9, 2100146.	3.6	22
54	Electrochemically-derived graphene oxide membranes with high stability and superior ionic sieving. <i>Chemical Communications</i> , 2019, 55, 4075-4078.	2.2	21

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55	Nanocontact-induced catalytic activation in palladium nanoparticles. <i>Nanoscale</i> , 2009, 1, 391.	2.8	20
56	Elemental 2D Materials: Solution-Processed Synthesis and Applications in Electrochemical Ammonia Production. <i>Advanced Functional Materials</i> , 2022, 32, 2107280.	7.8	20
57	Direct Photochemical Functionalization of Si(111) with Undecenol. <i>Langmuir</i> , 2011, 27, 1796-1802.	1.6	19
58	Enhanced Thermochemical Water Splitting through Formation of Oxygen Vacancy in $\text{La}_{0.6}\text{Sr}_{0.4}\text{BO}_3$ (B=Cr, Mn, Fe, Co, and Ni) Perovskites. <i>ChemPlusChem</i> , 2018, 83, 924-928.	1.3	19
59	A novel carbazole derivative containing fluorobenzene unit: aggregation-induced fluorescence emission, polymorphism, mechanochromism and non-reversible thermo-stimulus fluorescence. <i>CrystEngComm</i> , 2018, 20, 2772-2779.	1.3	18
60	Hollow Melon-Seeded Shaped Lithium Iron Phosphate Micro- and Sub-Micrometer Plates for Lithium-Ion Batteries. <i>ChemSusChem</i> , 2014, 7, 1618-1622.	3.6	16
61	UV-visible-near infrared photoabsorption and photodetection using close-packed metallic gold nanoparticle network. <i>Journal of Applied Physics</i> , 2010, 107, 053510.	1.1	15
62	Enhanced Electrohydrodynamics for Electrospinning a Highly Sensitive Flexible Fiber-Based Piezoelectric Sensor. <i>ACS Applied Electronic Materials</i> , 2022, 4, 1301-1310.	2.0	15
63	Enhanced Thermochemical H <sub>2</sub> Production on Ca-Doped Lanthanum Manganite Perovskites Through Optimizing the Dopant Level and Re-oxidation Temperature. <i>Acta Metallurgica Sinica (English Letters)</i> , 2018, 31, 431-439.	1.5	13
64	Tungsten-Doped Nanocrystalline $\text{V}_6\text{O}_{13}$ Nanoparticles as Low-Cost and High-Performance Electrodes for Energy Storage Devices. <i>Energy Technology</i> , 2019, 7, 1801041.	1.8	10
65	Sulfur-Functionalized Titanium Carbide $\text{Ti}_3\text{C}_2\text{T}_x$ (MXene) Nanosheets Modified Light Absorbers for Ambient Fabrication of $\text{Sb}_2\text{S}_3$ Solar Cells. <i>ACS Applied Nano Materials</i> , 2022, 5, 12107-12116.	2.4	7
66	Potassium spin polarization lifetime for a 30-carbon chain siloxane film. <i>Journal of Chemical Physics</i> , 2012, 137, 174703.	1.2	6
67	Substituent Effects on the Kinetics of Bifunctional Styrene SAM Formation on H-Terminated Si. <i>Langmuir</i> , 2014, 30, 7687-7694.	1.6	6
68	Facile Synthesis of Boron-Doped Reduced Electrochemical Graphene Oxide for Sodium Ion Battery Anode. <i>Jom</i> , 2021, 73, 2531.	0.9	6
69	Sustainable Recycling of Formic Acid by Bio-Catalytic CO <sub>2</sub> Capture and Re-Hydrogenation. <i>Journal of Carbon Research</i> , 2019, 5, 22.	1.4	5
70	Fast and cost-effective room temperature synthesis of high quality graphene oxide with excellent structural intactness. <i>Sustainable Materials and Technologies</i> , 2020, 25, e00198.	1.7	4
71	Phosphorus and Sulfur Co-Doped Cobaltous Oxide Synthesized by an Inorganic-Salt-Assisted Method: Reaction Mechanism and Electrocatalytic Application. <i>ChemPlusChem</i> , 2020, 85, 1602-1611.	1.3	4
72	Nanomaterials and Composites for Energy Conversion and Storage. <i>Jom</i> , 2021, 73, 2752-2753.	0.9	3

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73	Flexible and stretchable inorganic electronics: Conductive materials, fabrication strategy, and applicable devices. , 2020, , 199-252.		2
74	Exfoliated 2D Antimonene-Based Structures for Light-Harvesting Photoactive Layer of Highly Stable Solar Cells. Small Structures, 0, , 2200038.	6.9	2
75	Graphene Photodetectors: Large-Scale Production of Bismuth Chalcogenide and Graphene Heterostructure and Its Application for Flexible Broadband Photodetector (Adv. Electron. Mater.) Tj ETQq1 1 0.784314 rgBT /Overlock	1.1	1
76	Heat and Electro-Responsive Nanomaterials for Smart Windows. Springer Series in Materials Science, 2020, , 215-243.	0.4	1
77	3rd International Symposium on Renewable Energy Technologies. Energy Technology, 2019, 7, 1900605.	1.8	0