

# Caitian Gao

## List of Publications by Year in descending order

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43  
papers

3,591  
citations

172207

29  
h-index

264894

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g-index

43  
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43  
docs citations

43  
times ranked

6341  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tuning the Hydration Entropy of Cations during Electrochemical Intercalation for High Thermopower. <i>Advanced Energy and Sustainability Research</i> , 2022, 3, .	2.8	3
2	Amorphizing noble metal chalcogenide catalysts at the single-layer limit towards hydrogen production. <i>Nature Catalysis</i> , 2022, 5, 212-221.	16.1	113
3	Thermally Assisted Alkali/Zinc Ion Hybrid Battery for High Roundtrip Efficiency. <i>ACS Applied Energy Materials</i> , 2022, 5, 2780-2785.	2.5	1
4	Continuous thermally regenerative electrochemical systems for directly converting low-grade heat to electricity. <i>Nano Energy</i> , 2022, 101, 107547.	8.2	17
5	Efficient Low-Grade Heat Harvesting Enabled by Tuning the Hydration Entropy in an Electrochemical System. <i>Advanced Materials</i> , 2021, 33, e2004717.	11.1	22
6	Tear-Based Aqueous Batteries for Smart Contact Lenses Enabled by Prussian Blue Analogue Nanocomposites. <i>Nano Letters</i> , 2021, 21, 1659-1665.	4.5	22
7	Low-Grade Heat Harvesting: Efficient Low-Grade Heat Harvesting Enabled by Tuning the Hydration Entropy in an Electrochemical System ( <i>Adv. Mater.</i> 13/2021). <i>Advanced Materials</i> , 2021, 33, 2170096.	11.1	0
8	Copper Hexacyanoferrate Thin Film Deposition and Its Application to a New Method for Diffusion Coefficient Measurement. <i>Nanomaterials</i> , 2021, 11, 1860.	1.9	3
9	Engineering grain boundaries at the 2D limit for the hydrogen evolution reaction. <i>Nature Communications</i> , 2020, 11, 57.	5.8	153
10	An electrochromic alarm system for smart contact lenses. <i>Sensors and Actuators B: Chemical</i> , 2020, 322, 128601.	4.0	20
11	Selective Ion Sweeping on Prussian Blue Analogue Nanoparticles and Activated Carbon for Electrochemical Kinetic Energy Harvesting. <i>Nano Letters</i> , 2020, 20, 1800-1807.	4.5	8
12	Electrochromic Alarm System with Computer Vision in Smart Contact Lens. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 2081-2081.	0.0	1
13	Self-gating in semiconductor electrocatalysis. <i>Nature Materials</i> , 2019, 18, 1098-1104.	13.3	167
14	Lithium Manganese Oxide in an Aqueous Electrochemical System for Low-Grade Thermal Energy Harvesting. <i>Chemistry of Materials</i> , 2019, 31, 4379-4384.	3.2	41
15	The Effect of Electrolyte Type on the Li Ion Intercalation in Copper Hexacyanoferrate. <i>Journal of the Electrochemical Society</i> , 2019, 166, A1732-A1737.	1.3	12
16	Engineering the Electrochemical Temperature Coefficient for Efficient Low-Grade Heat Harvesting. <i>Advanced Functional Materials</i> , 2018, 28, 1803129.	7.8	64
17	Thermally Regenerative Electrochemical Cycle for Low-Grade Heat Harvesting. <i>ACS Energy Letters</i> , 2017, 2, 2326-2334.	8.8	106
18	Germanium on seamless graphene carbon nanotube hybrids for lithium ion anodes. <i>Carbon</i> , 2017, 123, 433-439.	5.4	35

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19	Nitrogen-doped carbonized cotton for highly flexible supercapacitors. <i>Carbon</i> , 2016, 105, 260-267.	5.4	108
20	Enhanced charge separation and transfer through Fe <sub>2</sub> O <sub>3</sub> /ITO nanowire arrays wrapped with reduced graphene oxide for water-splitting. <i>Nano Energy</i> , 2016, 30, 892-899.	8.2	71
21	Sandwich structured graphene-wrapped FeS-graphene nanoribbons with improved cycling stability for lithium ion batteries. <i>Nano Research</i> , 2016, 9, 2904-2911.	5.8	52
22	High-performance Pseudocapacitive Microsupercapacitors from Laser-induced Graphene. <i>Advanced Materials</i> , 2016, 28, 838-845.	11.1	439
23	Toward efficient photoelectrochemical water-splitting by using screw-like SnO <sub>2</sub> nanostructures as photoanode after being decorated with CdS quantum dots. <i>Nano Energy</i> , 2016, 19, 318-327.	8.2	139
24	Liquid Phase Exfoliation of Two-Dimensional Materials by Directly Probing and Matching Surface Tension Components. <i>Nano Letters</i> , 2015, 15, 5449-5454.	4.5	436
25	Synthesis of cadmium sulfide quantum dot-decorated barium stannate nanowires for photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2015, 3, 12769-12776.	5.2	41
26	Tin Disulfide Nanoplates on Graphene Nanoribbons for Full Lithium Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 26549-26556.	4.0	47
27	Facile and fast one-pot synthesis of ultra-long porous ZnO nanowire arrays for efficient dye-sensitized solar cells. <i>Journal of Alloys and Compounds</i> , 2014, 586, 766-772.	2.8	30
28	The role of carbon in the photocatalytic reaction of carbon/TiO <sub>2</sub> photocatalysts. <i>Applied Surface Science</i> , 2014, 320, 703-709.	3.1	50
29	High performance, self-powered UV-photodetector based on ultrathin, transparent, SnO <sub>2</sub> @TiO <sub>2</sub> core-shell electrodes. <i>Journal of Alloys and Compounds</i> , 2014, 616, 510-515.	2.8	65
30	A simple method to eliminate the surface defects of diamond particles. <i>Powder Technology</i> , 2014, 266, 299-302.	2.1	4
31	Low-temperature synthesis of tin dioxide hollow nanospheres and their potential applications in dye-sensitized solar cells and photoelectrochemical type self-powered ultraviolet photodetectors. <i>Journal of Power Sources</i> , 2014, 272, 886-894.	4.0	46
32	Branched hierarchical photoanode of titanium dioxide nanoneedles on tin dioxide nanofiber network for high performance dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2014, 264, 15-21.	4.0	32
33	One-step synthesis porous tungsten carbide films with excellent hydrophilicity. <i>Materials Letters</i> , 2014, 115, 9-12.	1.3	7
34	An overview of carbon materials for flexible electrochemical capacitors. <i>Nanoscale</i> , 2013, 5, 8799.	2.8	278
35	Titanium dioxide coated zinc oxide nanostrawberry aggregates for dye-sensitized solar cell and self-powered UV-photodetector. <i>Journal of Power Sources</i> , 2013, 239, 458-465.	4.0	60
36	High-performance Photoelectrochemical-type Self-powered UV Photodetector Using Epitaxial TiO <sub>2</sub> /SnO <sub>2</sub> Branched Heterojunction Nanostructure. <i>Small</i> , 2013, 9, 2005-2011.	5.2	194

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37	TiO <sub>2</sub> films with rich bulk oxygen vacancies prepared by electrospinning for dye-sensitized solar cells. Journal of Power Sources, 2012, 214, 244-250.	4.0	54
38	Nanocrystalline TiO <sub>2</sub> film based photoelectrochemical cell as self-powered UV-photodetector. Nano Energy, 2012, 1, 640-645.	8.2	170
39	A facile method to prepare SnO <sub>2</sub> nanotubes for use in efficient SnO <sub>2</sub> @TiO <sub>2</sub> core-shell dye-sensitized solar cells. Nanoscale, 2012, 4, 3475.	2.8	140
40	Graphene-based composite materials beneficial to wound healing. Nanoscale, 2012, 4, 2978.	2.8	236
41	High Field Emission Performance of Needle-on-Fiber Hierarchical ZnO. Journal of the American Ceramic Society, 2011, 94, 4387-4390.	1.9	13
42	Synthesis and H <sub>2</sub> sensing properties of aligned ZnO nanotubes. Applied Surface Science, 2011, 257, 2264-2268.	3.1	44
43	Effect of Al doping on the visible photoluminescence of ZnO nanofibers. Journal of Alloys and Compounds, 2010, 506, 772-776.	2.8	47