

# Hongtao Yu

## List of Publications by Year in descending order

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101  
papers

8,722  
citations

53794

45  
h-index

42399

92  
g-index

103  
all docs

103  
docs citations

103  
times ranked

10339  
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphene oxide modified g-C <sub>3</sub> N <sub>4</sub> hybrid with enhanced photocatalytic capability under visible light irradiation. <i>Journal of Materials Chemistry</i> , 2012, 22, 2721-2726.	6.7	687
2	Facile Ammonia Synthesis from Electrocatalytic N <sub>2</sub> Reduction under Ambient Conditions on N-Doped Porous Carbon. <i>ACS Catalysis</i> , 2018, 8, 1186-1191.	11.2	520
3	Efficient Electrochemical Reduction of Carbon Dioxide to Acetate on Nitrogen-Doped Nanodiamond. <i>Journal of the American Chemical Society</i> , 2015, 137, 11631-11636.	13.7	458
4	Graphene Sheets Grafted Ag@AgCl Hybrid with Enhanced Plasmonic Photocatalytic Activity under Visible Light. <i>Environmental Science &amp; Technology</i> , 2011, 45, 5731-5736.	10.0	393
5	Uncovering the Key Role of the Fermi Level of the Electron Mediator in a Z-Scheme Photocatalyst by Detecting the Charge Transfer Process of WO <sub>3</sub> -metal-gC <sub>3</sub> N <sub>4</sub> (Metal = Cu, Ag, Au). <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 2111-2119.	8.0	334
6	Vertically Aligned Janus MXene-Based Aerogels for Solar Desalination with High Efficiency and Salt Resistance. <i>ACS Nano</i> , 2019, 13, 13196-13207.	14.6	280
7	Enhanced Photocatalytic H <sub>2</sub> O <sub>2</sub> Production over Carbon Nitride by Doping and Defect Engineering. <i>ACS Catalysis</i> , 2020, 10, 14380-14389.	11.2	265
8	Selective electroreduction of CO <sub>2</sub> to acetone by single copper atoms anchored on N-doped porous carbon. <i>Nature Communications</i> , 2020, 11, 2455.	12.8	265
9	Enhanced Fenton-like catalysis by iron-based metal organic frameworks for degradation of organic pollutants. <i>Journal of Catalysis</i> , 2017, 356, 125-132.	6.2	256
10	Enhanced H <sub>2</sub> O <sub>2</sub> production by selective electrochemical reduction of O <sub>2</sub> on fluorine-doped hierarchically porous carbon. <i>Journal of Catalysis</i> , 2018, 357, 118-126.	6.2	252
11	Heterogeneous activation of peroxymonosulfate by LaCo <sub>1-x</sub> Cu <sub>x</sub> O <sub>3</sub> perovskites for degradation of organic pollutants. <i>Journal of Hazardous Materials</i> , 2018, 353, 401-409.	12.4	249
12	CO <sub>2</sub> Electroreduction at Low Overpotential on Oxide-Derived Cu/Carbons Fabricated from Metal Organic Framework. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 5302-5311.	8.0	239
13	Selective Electrochemical Reduction of Carbon Dioxide to Ethanol on a Boron- and Nitrogen-doped Nanodiamond. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15607-15611.	13.8	226
14	TiO <sub>2</sub> ~Multiwalled Carbon Nanotube Heterojunction Arrays and Their Charge Separation Capability. <i>Journal of Physical Chemistry C</i> , 2007, 111, 12987-12991.	3.1	222
15	g-C <sub>3</sub> N <sub>4</sub> /TiO <sub>2</sub> hybrid photocatalyst with wide absorption wavelength range and effective photogenerated charge separation. <i>Separation and Purification Technology</i> , 2012, 99, 50-54.	7.9	211
16	Selective Electrochemical Reduction of Carbon Dioxide to Ethanol on a Boron- and Nitrogen-doped Nanodiamond. <i>Angewandte Chemie</i> , 2017, 129, 15813-15817.	2.0	196
17	Efficient Mineralization of Perfluorooctanoate by Electro-Fenton with H <sub>2</sub> O <sub>2</sub> Electro-generated on Hierarchically Porous Carbon. <i>Environmental Science &amp; Technology</i> , 2015, 49, 13528-13533.	10.0	174
18	Improved Photocatalytic Performance of Heterojunction by Controlling the Contact Facet: High Electron Transfer Capacity between TiO <sub>2</sub> and the {110} Facet of BiVO <sub>4</sub> Caused by Suitable Energy Band Alignment. <i>Advanced Functional Materials</i> , 2015, 25, 3074-3080.	14.9	164

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19	Atomic single layer graphitic-C <sub>3</sub> N <sub>4</sub> : fabrication and its high photocatalytic performance under visible light irradiation. RSC Advances, 2014, 4, 624-628.	3.6	152
20	Construction of Z-Scheme g-C <sub>3</sub> N <sub>4</sub> /RGO/WO <sub>3</sub> with in situ photoreduced graphene oxide as electron mediator for efficient photocatalytic degradation of ciprofloxacin. Chemosphere, 2019, 215, 444-453.	8.2	152
21	Cobalt Nanoparticles Encapsulated in Porous Carbons Derived from Core-Shell ZIF67@ZIF8 as Efficient Electrocatalysts for Oxygen Evolution Reaction. ACS Applied Materials & Interfaces, 2017, 9, 28685-28694.	8.0	142
22	Selective electrochemical H <sub>2</sub> O <sub>2</sub> generation and activation on a bifunctional catalyst for heterogeneous electro-Fenton catalysis. Journal of Hazardous Materials, 2020, 382, 121102.	12.4	137
23	Enhanced heterogeneous activation of peroxydisulfate by Co and N codoped porous carbon for degradation of organic pollutants: the synergism between Co and N. Environmental Science: Nano, 2019, 6, 399-410.	4.3	129
24	High-Efficiency Electrocatalysis of Molecular Oxygen toward Hydroxyl Radicals Enabled by an Atomically Dispersed Iron Catalyst. Environmental Science & Technology, 2020, 54, 12662-12672.	10.0	114
25	“Mulberry-like” CdSe Nanoclusters Anchored on TiO <sub>2</sub> Nanotube Arrays: A Novel Architecture with Remarkable Photoelectrochemical Performance. Chemistry of Materials, 2009, 21, 3090-3095.	6.7	105
26	Electrochemically Assisted Photocatalytic Inactivation of Escherichia coli under Visible Light Using a ZnIn <sub>2</sub> S <sub>4</sub> Film Electrode. Langmuir, 2008, 24, 7599-7604.	3.5	91
27	Enhanced electro-Fenton performance by fluorine-doped porous carbon for removal of organic pollutants in wastewater. Chemical Engineering Journal, 2018, 354, 606-615.	12.7	91
28	Efficient day-night photocatalysis performance of 2D/2D Ti <sub>3</sub> C <sub>2</sub> /Porous g-C <sub>3</sub> N <sub>4</sub> nanolayers composite and its application in the degradation of organic pollutants. Chemosphere, 2020, 246, 125760.	8.2	89
29	Improving Ion Rejection of Conductive Nanofiltration Membrane through Electrically Enhanced Surface Charge Density. Environmental Science & Technology, 2019, 53, 868-877.	10.0	83
30	Boron and Nitrogen Codoped Nanodiamond as an Efficient Metal-Free Catalyst for Oxygen Reduction Reaction. Journal of Physical Chemistry C, 2013, 117, 14992-14998.	3.1	80
31	Porous metal-organic framework MIL-100(Fe) as an efficient catalyst for the selective catalytic reduction of NO <sub>x</sub> with NH <sub>3</sub> . RSC Advances, 2014, 4, 48912-48919.	3.6	80
32	Combined Effects of Surface Charge and Pore Size on Co-Enhanced Permeability and Ion Selectivity through RGO-OCNT Nanofiltration Membranes. Environmental Science & Technology, 2018, 52, 4827-4834.	10.0	79
33	A Structured Macroporous Silicon/Graphene Heterojunction for Efficient Photoconversion. Angewandte Chemie - International Edition, 2010, 49, 5106-5109.	13.8	76
34	Fluorine-doped carbon nanotubes as an efficient metal-free catalyst for destruction of organic pollutants in catalytic ozonation. Chemosphere, 2018, 190, 135-143.	8.2	75
35	Enhanced catalytic ozonation by highly dispersed CeO <sub>2</sub> on carbon nanotubes for mineralization of organic pollutants. Journal of Hazardous Materials, 2019, 368, 621-629.	12.4	71
36	Enhanced Chlorinated Pollutant Degradation by the Synergistic Effect between Dechlorination and Hydroxyl Radical Oxidation on a Bimetallic Single-Atom Catalyst. Environmental Science & Technology, 2021, 55, 14194-14203.	10.0	70

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37	Energy-transfer-mediated oxygen activation in carbonyl functionalized carbon nitride nanosheets for high-efficient photocatalytic water disinfection and organic pollutants degradation. <i>Water Research</i> , 2020, 177, 115798.	11.3	68
38	Durable and Selective Electrochemical H <sub>2</sub> O <sub>2</sub> Synthesis under a Large Current Enabled by the Cathode with Highly Hydrophobic Three-Phase Architecture. <i>ACS Catalysis</i> , 2021, 11, 13797-13808.	11.2	59
39	Electrochemical reduction of N <sub>2</sub> to ammonia on Co single atom embedded N-doped porous carbon under ambient conditions. <i>Journal of Materials Chemistry A</i> , 2019, 7, 26358-26363.	10.3	51
40	Integration of membrane filtration and photoelectrocatalysis using a TiO <sub>2</sub> /carbon/Al <sub>2</sub> O <sub>3</sub> membrane for enhanced water treatment. <i>Journal of Hazardous Materials</i> , 2015, 299, 27-34.	12.4	50
41	An electrochemical sensor for selective determination of sulfamethoxazole in surface water using a molecularly imprinted polymer modified BDD electrode. <i>Analytical Methods</i> , 2015, 7, 2693-2698.	2.7	50
42	Carbon nanotubes-incorporated MIL-88B-Fe as highly efficient Fenton-like catalyst for degradation of organic pollutants. <i>Frontiers of Environmental Science and Engineering</i> , 2019, 13, 1.	6.0	49
43	Highly efficient metal-free electro-Fenton degradation of organic contaminants on a bifunctional catalyst. <i>Journal of Hazardous Materials</i> , 2021, 416, 125859.	12.4	49
44	Enhanced adsorption of ionizable antibiotics on activated carbon fiber under electrochemical assistance in continuous-flow modes. <i>Water Research</i> , 2018, 134, 162-169.	11.3	47
45	Superpermeable Atomic-Thin Graphene Membranes with High Selectivity. <i>ACS Nano</i> , 2017, 11, 1920-1926.	14.6	45
46	Nitrogen-doped diamond electrode shows high performance for electrochemical reduction of nitrobenzene. <i>Journal of Hazardous Materials</i> , 2014, 265, 185-190.	12.4	41
47	Three-Dimensional Porous H <sub>2</sub> TiS <sub>2</sub> Nanosheet@Polyaniline Nanocomposite Electrodes for Directly Detecting Trace Cu(II) Ions. <i>Analytical Chemistry</i> , 2015, 87, 5605-5613.	6.5	39
48	Carbon nanotube hollow fiber membranes: High-throughput fabrication, structural control and electrochemically improved selectivity. <i>Journal of Membrane Science</i> , 2015, 493, 97-105.	8.2	38
49	Nano-cubic structured titanium nitride particle films as cathodes for the effective electrocatalytic debromination of BDE-47. <i>Journal of Hazardous Materials</i> , 2012, 231-232, 105-113.	12.4	37
50	In situ controllable growth of noble metal nanodot on graphene sheet. <i>Journal of Materials Chemistry</i> , 2011, 21, 12986.	6.7	36
51	Enhancing anaerobic digestion in anaerobic integrated floating fixed-film activated sludge (An-IFAS) system using novel electron mediator suspended biofilm carriers. <i>Water Research</i> , 2020, 175, 115697.	11.3	36
52	Effective Utilization of Visible Light (Including λ > 600 nm) in Phenol Degradation with p-Silicon Nanowire/TiO <sub>2</sub> Core/Shell Heterojunction Array Cathode. <i>Environmental Science &amp; Technology</i> , 2009, 43, 7849-7855.	10.0	35
53	Electrokinetic Enhancement of Water Flux and Ion Rejection through Graphene Oxide/Carbon Nanotube Membrane. <i>Environmental Science &amp; Technology</i> , 2020, 54, 15433-15441.	10.0	33
54	Electrochemical activation of peroxydisulfate in cathodic micro-channels for effective degradation of organic pollutants in wastewater. <i>Journal of Hazardous Materials</i> , 2020, 398, 122879.	12.4	31

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55	Porous carbon membrane with enhanced selectivity and antifouling capability for water treatment under electrochemical assistance. <i>Journal of Colloid and Interface Science</i> , 2020, 560, 59-68.	9.4	30
56	Construction of a Microchannel Electrochemical Reactor with a Monolithic Porous-Carbon Cathode for Adsorption and Degradation of Organic Pollutants in Several Minutes of Retention Time. <i>Environmental Science &amp; Technology</i> , 2020, 54, 1920-1928.	10.0	30
57	Flow-through heterogeneous electro-Fenton system based on the absorbent cotton derived bulk electrode for refractory organic pollutants treatment. <i>Separation and Purification Technology</i> , 2021, 276, 119266.	7.9	30
58	Formation mechanism and optical characterization of polymorphic silicon nanostructures by DC arc-discharge. <i>RSC Advances</i> , 2015, 5, 68714-68721.	3.6	28
59	Constructing metal-free polyimide/g-C <sub>3</sub> N <sub>4</sub> with high photocatalytic activity under visible light irradiation. <i>RSC Advances</i> , 2015, 5, 83225-83231.	3.6	28
60	Enhanced activation of peroxymonosulfate by CNT-TiO <sub>2</sub> under UV-light assistance for efficient degradation of organic pollutants. <i>Frontiers of Environmental Science and Engineering</i> , 2019, 13, 1.	6.0	28
61	Interface evolution in the platelet-like SiC@C and SiC@SiO <sub>2</sub> monocrystal nanocapsules. <i>Nano Research</i> , 2017, 10, 2644-2656.	10.4	27
62	Electro-assisted CNTs/ceramic flat sheet ultrafiltration membrane for enhanced antifouling and separation performance. <i>Frontiers of Environmental Science and Engineering</i> , 2021, 15, 1.	6.0	27
63	Optical emission spectroscopy diagnosis of energetic Ar ions in synthesis of SiC polytypes by DC arc discharge plasma. <i>Nano Research</i> , 2018, 11, 1470-1481.	10.4	26
64	Enhanced heterogeneous Fenton-like activity by Cu-doped BiFeO <sub>3</sub> perovskite for degradation of organic pollutants. <i>Frontiers of Environmental Science and Engineering</i> , 2018, 12, 1.	6.0	26
65	Efficient electrochemical reduction of nitrobenzene by nitrogen doped porous carbon. <i>Chemosphere</i> , 2020, 238, 124636.	8.2	25
66	Exquisite Enzyme-Fenton Biomimetic Catalysts for Hydroxyl Radical Production by Mimicking an Enzyme Cascade. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 8666-8675.	8.0	24
67	Photocatalytic ozonation of organic pollutants in wastewater using a flowing through reactor. <i>Journal of Hazardous Materials</i> , 2021, 405, 124277.	12.4	24
68	Comparison of CNT-PVA membrane and commercial polymeric membranes in treatment of emulsified oily wastewater. <i>Frontiers of Environmental Science and Engineering</i> , 2019, 13, 1.	6.0	23
69	Fabrication of FeOCl nanoparticles modified microchannel carbon cathode for flow-through electro-Fenton degradation of refractory organic pollutants. <i>Separation and Purification Technology</i> , 2022, 288, 120661.	7.9	23
70	Treatment of organic wastewater by a synergic electrocatalysis process with Ti <sup>3+</sup> self-doped TiO <sub>2</sub> nanotube arrays electrode as both cathode and anode. <i>Journal of Hazardous Materials</i> , 2022, 424, 127747.	12.4	22
71	Poly(vinylidene fluoride) hollow fiber membranes containing silver/graphene oxide dope with excellent filtration performance. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	2.6	21
72	Graphene/silicon photoelectrode with high and stable photoelectrochemical response in aqueous solution. <i>Applied Surface Science</i> , 2011, 257, 7714-7718.	6.1	20

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73	Fabrication of graphitic-C <sub>3</sub> N <sub>4</sub> quantum dots coated silicon nanowire array as a photoelectrode for vigorous degradation of 4-chlorophenol. RSC Advances, 2017, 7, 14832-14836.	3.6	19
74	Nanoplatting of a SnO <sub>2</sub> thin-film on MXene-based sponge for stable and efficient solar energy conversion. Journal of Materials Chemistry A, 2020, 8, 8065-8074.	10.3	19
75	Electrochemically enhanced adsorption of PFOA and PFOS on multiwalled carbon nanotubes in continuous flow mode. Science Bulletin, 2014, 59, 2890-2897.	1.7	17
76	Tuning the electrochemical properties of a boron and nitrogen codoped nanodiamond rod array to achieve high performance for both electro-oxidation and electro-reduction. Journal of Materials Chemistry A, 2013, 1, 14706.	10.3	16
77	Selective reduction of nitrate to ammonium over charcoal electrode derived from natural wood. Chemosphere, 2021, 285, 131501.	8.2	16
78	Preparation and characterization of aligned carbon nanotubes coated with titania nanoparticles. Science Bulletin, 2006, 51, 2294-2296.	1.7	14
79	Voltage-Gated Transport of Nanoparticles across Free-Standing All-Carbon-Nanotube-Based Hollow-Fiber Membranes. ACS Applied Materials & Interfaces, 2015, 7, 14620-14627.	8.0	14
80	Construction of a Microchannel Aeration Cathode for Producing H <sub>2</sub> O <sub>2</sub> via Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2021, 13, 56045-56053.	8.0	14
81	Ultra-thin g-C <sub>3</sub> N <sub>4</sub> nanosheets wrapped silicon nanowire array for improved chemical stability and enhanced photoresponse. Materials Research Bulletin, 2014, 59, 179-184.	5.2	12
82	Performing homogeneous catalytic ozonation using heterogeneous Mn <sup>2+</sup> -bonded oxidized carbon nanotubes by self-driven pH variation induced reversible desorption and adsorption of Mn <sup>2+</sup> . Environmental Science: Nano, 2019, 6, 1932-1940.	4.3	12
83	Efficient Light-Driven Fuel Cell with Simultaneous Degradation of Pollutants on a TiO <sub>2</sub> Photoanode and Production of H <sub>2</sub> O <sub>2</sub> on a Gas Diffusion Electrode Cathode. ACS ES&T Engineering, 2021, 1, 1122-1130.	7.6	11
84	Origin of Visible Light Photocatalytic Activity of Ag <sub>3</sub> AsO <sub>4</sub> from First-Principles Calculation. International Journal of Photoenergy, 2014, 2014, 1-5.	2.5	10
85	Green Synthesis of Feather-Shaped MoS <sub>2</sub> /CdS Photocatalyst for Effective Hydrogen Production. International Journal of Photoenergy, 2013, 2013, 1-5.	2.5	8
86	Superpermeable nanoporous carbon-based catalytic membranes for electro-Fenton driven high-efficiency water treatment. Journal of Materials Chemistry A, 2018, 6, 23502-23512.	10.3	8
87	Efficient H <sub>2</sub> O <sub>2</sub> generation and electro-Fenton degradation of pollutants in microchannels of oxidized monolithic-porous-carbon cathode. Water Science and Technology, 2019, 80, 970-978.	2.5	8
88	Novel <i>in situ</i> Synthesized Fe@C Magnetic Nanocapsules Used as Adsorbent for Removal of Organic Dyes and its Recycling. Nano, 2016, 11, 1650013.	1.0	7
89	Covering $\hat{\pm}$ -Fe <sub>2</sub> O <sub>3</sub> protection layer on the surface of p-Si micropillar array for enhanced photoelectrochemical performance. Frontiers of Environmental Science and Engineering, 2017, 11, 1.	6.0	7
90	Fabrication of the hierarchical structure photocathode by structuring the surface nanopores on Si nanowires standing on p-Si wafer for the effective photoelectrochemical reduction of Cr(VI) in the aqueous solution. Separation and Purification Technology, 2017, 175, 454-459.	7.9	7

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91	Salt-controlled assembly of stacked-graphene for capturing fluorescence and its application in chemical genotoxicity screening. <i>Journal of Materials Chemistry</i> , 2011, 21, 15266.	6.7	6
92	High-efficiency electrochemical activation of H <sub>2</sub> O <sub>2</sub> into $\cdot$ OH enabled by flow-through FeOCl-modified carbon electrode for organic pollutants degradation. <i>Separation and Purification Technology</i> , 2022, 295, 121279.	7.9	6
93	Direct growth of ultra-permeable molecularly thin porous graphene membranes for water treatment. <i>Environmental Science: Nano</i> , 2018, 5, 3004-3010.	4.3	5
94	Utilizing transparent and conductive SnO <sub>2</sub> as electron mediator to enhance the photocatalytic performance of Z-scheme Si-SnO <sub>2</sub> -TiO <sub>x</sub> . <i>Frontiers of Environmental Science and Engineering</i> , 2020, 14, 1.	6.0	4
95	Fabrication of TiO <sub>2</sub> @Si photoanode and its energetic photoelectrochemical performance. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 12700-12706.	2.2	3
96	Effective adsorption of 2,4-dichlorophenol on hydrogenated graphene: kinetics and isotherms. <i>Science Bulletin</i> , 2014, 59, 4752-4757.	1.7	2
97	Electrocatalytic debromination of BDE-47 at palladized graphene electrode. <i>Frontiers of Environmental Science and Engineering</i> , 2014, 8, 180-187.	6.0	2
98	Characterization and Formation Mechanism of the Nanodiamond Synthesized by A High Energy Arc-Plasma. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019, 216, 1800704.	1.8	2
99	Fabrication of nanomaterial models and their applications in water treatment. , 2007, , .		1
100	Innentitelbild: Selective Electrochemical Reduction of Carbon Dioxide to Ethanol on a Boron- and Nitrogen-Co-doped Nanodiamond ( <i>Angew. Chem.</i> 49/2017). <i>Angewandte Chemie</i> , 2017, 129, 15678-15678.	2.0	1
101	Fabrication of a double-helical photocatalytic module for disinfection and antibiotics degradation. <i>Water Environment Research</i> , 2019, 91, 918-925.	2.7	1