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	Treatment of organic wastewater by a synergic electrocatalysis process with Ti3+ self-doped TiO2 nanotube arrays electrode as both cathode and anode. Journal of Hazardous Materials, 2022, 424, 127747.	12.4	22
2	Fabrication of FeOCl nanoparticles modified microchannel carbon cathode for flow-through electro-Fenton degradation of refractory organic pollutants. Separation and Purification Technology, 2022, 288, 120661.	7.9	23
3	High-efficiency electrochemical activation of H2O2 into Â·OH enabled by flow-through FeOCl-modified carbon electrode for organic pollutants degradation. Separation and Purification Technology, 2022, 295, 121279.	7.9	6
4	Electro-assisted CNTs/ceramic flat sheet ultrafiltration membrane for enhanced antifouling and separation performance. Frontiers of Environmental Science and Engineering, 2021, 15, 1.	6.0	27
5	Photocatalytic ozonation of organic pollutants in wastewater using a flowing through reactor. Journal of Hazardous Materials, 2021, 405, 124277.	12.4	24
6	Efficient Light-Driven Fuel Cell with Simultaneous Degradation of Pollutants on a TiO₂ Photoanode and Production of H₂O₂ on a Gas Diffusion Electrode Cathode. ACS ES&T Engineering, 2021, 1, 1122-1130.	7.6	11
7	Highly efficient metal-free electro-Fenton degradation of organic contaminants on a bifunctional catalyst. Journal of Hazardous Materials, 2021, 416, 125859.	12.4	49
8	Flow-through heterogeneous electro-Fenton system based on the absorbent cotton derived bulk electrode for refractory organic pollutants treatment. Separation and Purification Technology, 2021, 276, 119266.	7.9	30
9	Selective reduction of nitrate to ammonium over charcoal electrode derived from natural wood. Chemosphere, 2021, 285, 131501.	8.2	16
10	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
11	Durable and Selective Electrochemical H₂O₂ Synthesis under a Large Current Enabled by the Cathode with Highly Hydrophobic Three-Phase Architecture. ACS Catalysis, 2021, 11, 13797-13808.	11.2	59
12	Construction of a Microchannel Aeration Cathode for Producing H₂O₂ via Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2021, 13, 56045-56053.	8.0	14
13	Selective electrochemical H2O2 generation and activation on a bifunctional catalyst for heterogeneous electro-Fenton catalysis. Journal of Hazardous Materials, 2020, 382, 121102.	12.4	137
14	Efficient electrochemical reduction of nitrobenzene by nitrogen doped porous carbon. Chemosphere, 2020, 238, 124636.	8.2	25
15	Porous carbon membrane with enhanced selectivity and antifouling capability for water treatment under electrochemical assistance. Journal of Colloid and Interface Science, 2020, 560, 59-68.	9.4	30
16	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. Environmental Science & Technology, 2020, 54, 1920-1928.	10.0	30
17	Efficient day-night photocatalysis performance of 2D/2D Ti3C2/Porous g-C3N4 nanolayers composite and its application in the degradation of organic pollutants. Chemosphere, 2020, 246, 125760.	8.2	89
18	Electrokinetic Enhancement of Water Flux and Ion Rejection through Graphene Oxide/Carbon Nanotube Membrane. Environmental Science & Technology, 2020, 54, 15433-15441.	10.0	33

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19	Enhanced Photocatalytic H₂O₂ Production over Carbon Nitride by Doping and Defect Engineering. ACS Catalysis, 2020, 10, 14380-14389.	11.2	265
20	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
21	Electrochemical activation of peroxymonosulfate in cathodic micro-channels for effective degradation of organic pollutants in wastewater. Journal of Hazardous Materials, 2020, 398, 122879.	12.4	31
22	Utilizing transparent and conductive SnO2 as electron mediator to enhance the photocatalytic performance of Z-scheme Si-SnO2-TiOx. Frontiers of Environmental Science and Engineering, 2020, 14, 1.	6.0	4
23	Selective electroreduction of CO2 to acetone by single copper atoms anchored on N-doped porous carbon. Nature Communications, 2020, 11, 2455.	12.8	265
24	Enhancing anaerobic digestion in anaerobic integrated floating fixed-film activated sludge (An-IFFAS) system using novel electron mediator suspended biofilm carriers. Water Research, 2020, 175, 115697.	11.3	36
25	Nanoplating of a SnO₂ 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
26	Energy-transfer-mediated oxygen activation in carbonyl functionalized carbon nitride nanosheets for high-efficient photocatalytic water disinfection and organic pollutants degradation. Water Research, 2020, 177, 115798.	11.3	68
27	Vertically Aligned Janus MXene-Based Aerogels for Solar Desalination with High Efficiency and Salt Resistance. ACS Nano, 2019, 13, 13196-13207.	14.6	280
28	Efficient H2O2 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
29	Enhanced activation of peroxymonosulfate by CNT-TiO2 under UV-light assistance for efficient degradation of organic pollutants. Frontiers of Environmental Science and Engineering, 2019, 13, 1.	6.0	28
30	Carbon nanotubes-incorporated MIL-88B-Fe as highly efficient Fenton-like catalyst for degradation of organic pollutants. Frontiers of Environmental Science and Engineering, 2019, 13, 1.	6.0	49
31	Enhanced catalytic ozonation by highly dispersed CeO2 on carbon nanotubes for mineralization of organic pollutants. Journal of Hazardous Materials, 2019, 368, 621-629.	12.4	71
32	Enhanced heterogeneous activation of peroxymonosulfate 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
33	Fabrication of a doubleâ€helical photocatalytic module for disinfection and antibiotics degradation. Water Environment Research, 2019, 91, 918-925.	2.7	1
34	Performing homogeneous catalytic ozonation using heterogeneous Mn²⁺-bonded oxidized carbon nanotubes by self-driven pH variation induced reversible desorption and adsorption of Mn²⁺. Environmental Science: Nano, 2019, 6, 1932-1940.	4.3	12
35	Comparison of CNT-PVA membrane and commercial polymeric membranes in treatment of emulsified oily wastewater. Frontiers of Environmental Science and Engineering, 2019, 13, 1.	6.0	23
36	Electrochemical reduction of N₂ to ammonia on Co single atom embedded N-doped porous carbon under ambient conditions. Journal of Materials Chemistry A, 2019, 7, 26358-26363.	10.3	51

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37	Characterization and Formation Mechanism of the Nanodiamond Synthesized by A High Energy Arcâ€Plasma. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800704.	1.8	2
38	Construction of Z-Scheme g-C3N4/RGO/WO3 with in situ photoreduced graphene oxide as electron mediator for efficient photocatalytic degradation of ciprofloxacin. Chemosphere, 2019, 215, 444-453.	8.2	152
39	Improving Ion Rejection of Conductive Nanofiltration Membrane through Electrically Enhanced Surface Charge Density. Environmental Science & Technology, 2019, 53, 868-877.	10.0	83
40	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
41	Exquisite Enzyme-Fenton Biomimetic Catalysts for Hydroxyl Radical Production by Mimicking an Enzyme Cascade. ACS Applied Materials & Interfaces, 2018, 10, 8666-8675.	8.0	24
42	Enhanced adsorption of ionizable antibiotics on activated carbon fiber under electrochemical assistance in continuous-flow modes. Water Research, 2018, 134, 162-169.	11.3	47
43	Facile Ammonia Synthesis from Electrocatalytic N₂ Reduction under Ambient Conditions on N-Doped Porous Carbon. ACS Catalysis, 2018, 8, 1186-1191.	11.2	520
44	Heterogeneous activation of peroxymonosulfate by LaCo1-xCuxO3 perovskites for degradation of organic pollutants. Journal of Hazardous Materials, 2018, 353, 401-409.	12.4	249
45	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
46	Optical emission spectroscopy diagnosis of energetic Ar ions in synthesis of SiC polytypes by DC arc discharge plasma. Nano Research, 2018, 11, 1470-1481.	10.4	26
47	Enhanced H2O2 production by selective electrochemical reduction of O2 on fluorine-doped hierarchically porous carbon. Journal of Catalysis, 2018, 357, 118-126.	6.2	252
48	Direct growth of ultra-permeable molecularly thin porous graphene membranes for water treatment. Environmental Science: Nano, 2018, 5, 3004-3010.	4.3	5
49	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
50	Fabrication of TiOxâ€“Si photoanode and its energetic photoelectrochemical performance. Journal of Materials Science: Materials in Electronics, 2018, 29, 12700-12706.	2.2	3
51	Enhanced heterogeneous Fenton-like activity by Cu-doped BiFeO3 perovskite for degradation of organic pollutants. Frontiers of Environmental Science and Engineering, 2018, 12, 1.	6.0	26
52	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
53	CO₂ Electroreduction at Low Overpotential on Oxide-Derived Cu/Carbons Fabricated from Metal Organic Framework. ACS Applied Materials & Interfaces, 2017, 9, 5302-5311.	8.0	239
54	Poly(vinylidene fluoride) hollowâ€fiber membranes containing silver/graphene oxide dope with excellent filtration performance. Journal of Applied Polymer Science, 2017, 134, .	2.6	21

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55	Fabrication of graphitic-C₃N₄ quantum dots coated silicon nanowire array as a photoelectrode for vigorous degradation of 4-chlorophenol. RSC Advances, 2017, 7, 14832-14836.	3.6	19
56	Superpermeable Atomic-Thin Graphene Membranes with High Selectivity. ACS Nano, 2017, 11, 1920-1926.	14.6	45
57	Interface evolution in the platelet-like SiC@C and SiC@SiO2 monocrystal nanocapsules. Nano Research, 2017, 10, 2644-2656.	10.4	27
58	Selective Electrochemical Reduction of Carbon Dioxide to Ethanol on a Boronâ€•and Nitrogenâ€Coâ€doped Nanodiamond. Angewandte Chemie, 2017, 129, 15813-15817.	2.0	196
59	Selective Electrochemical Reduction of Carbon Dioxide to Ethanol on a Boronâ€•and Nitrogenâ€Coâ€doped Nanodiamond. Angewandte Chemie - International Edition, 2017, 56, 15607-15611.	13.8	226
60	Cobalt Nanoparticles Encapsulated in Porous Carbons Derived from Coreâ€“Shell ZIF67@ZIF8 as Efficient Electrocatalysts for Oxygen Evolution Reaction. ACS Applied Materials & Interfaces, 2017, 9, 28685-28694.	8.0	142
61	Innentitelbild: Selective Electrochemical Reduction of Carbon Dioxide to Ethanol on a Boronâ€•and Nitrogenâ€Coâ€doped Nanodiamond (Angew. Chem. 49/2017). Angewandte Chemie, 2017, 129, 15678-15678.	2.0	1
62	Enhanced Fenton-like catalysis by iron-based metal organic frameworks for degradation of organic pollutants. Journal of Catalysis, 2017, 356, 125-132.	6.2	256
63	Covering Î±-Fe2O3 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
64	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
65	Novel in situ Synthesized Fe@C Magnetic Nanocapsules Used as Adsorbent for Removal of Organic Dyes and its Recycling. Nano, 2016, 11, 1650013.	1.0	7
66	Uncovering the Key Role of the Fermi Level of the Electron Mediator in a Z-Scheme Photocatalyst by Detecting the Charge Transfer Process of WO₃-metal-gC₃N₄ (Metal = Cu, Ag, Au). ACS Applied Materials & Interfaces, 2016, 8, 2111-2119.	8.0	334
67	Three-Dimensional Porous H_xTiS₂ Nanosheetâ€“Polyaniline Nanocomposite Electrodes for Directly Detecting Trace Cu(II) Ions. Analytical Chemistry, 2015, 87, 5605-5613.	6.5	39
68	Integration of membrane filtration and photoelectrocatalysis using a TiO2/carbon/Al2O3 membrane for enhanced water treatment. Journal of Hazardous Materials, 2015, 299, 27-34.	12.4	50
69	Formation mechanism and optical characterization of polymorphic silicon nanostructures by DC arc-discharge. RSC Advances, 2015, 5, 68714-68721.	3.6	28
70	An electrochemical sensor for selective determination of sulfamethoxazole in surface water using a molecularly imprinted polymer modified BDD electrode. Analytical Methods, 2015, 7, 2693-2698.	2.7	50
71	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
72	Carbon nanotube hollow fiber membranes: High-throughput fabrication, structural control and electrochemically improved selectivity. Journal of Membrane Science, 2015, 493, 97-105.	8.2	38

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73	Improved Photocatalytic Performance of Heterojunction by Controlling the Contact Facet: High Electron Transfer Capacity between TiO₂ and the {110} Facet of BiVO₄ Caused by Suitable Energy Band Alignment. Advanced Functional Materials, 2015, 25, 3074-3080.	14.9	164
74	Constructing metal-free polyimide/g-C₃N₄ with high photocatalytic activity under visible light irradiation. RSC Advances, 2015, 5, 83225-83231.	3.6	28
75	Efficient Mineralization of Perfluorooctanoate by Electro-Fenton with H₂O₂ Electro-generated on Hierarchically Porous Carbon. Environmental Science & Technology, 2015, 49, 13528-13533.	10.0	174
76	Efficient Electrochemical Reduction of Carbon Dioxide to Acetate on Nitrogen-Doped Nanodiamond. Journal of the American Chemical Society, 2015, 137, 11631-11636.	13.7	458
77	Effective adsorption of 2,4-dichlorophenol on hydrogenated graphene: kinetics and isotherms. Science Bulletin, 2014, 59, 4752-4757.	1.7	2
78	Origin of Visible Light Photocatalytic Activity of Ag₃AsO₄from First-Principles Calculation. International Journal of Photoenergy, 2014, 2014, 1-5.	2.5	10
79	Electrocatalytic debromination of BDE-47 at palladized graphene electrode. Frontiers of Environmental Science and Engineering, 2014, 8, 180-187.	6.0	2
80	Atomic single layer graphitic-C₃N₄: fabrication and its high photocatalytic performance under visible light irradiation. RSC Advances, 2014, 4, 624-628.	3.6	152
81	Porous metalâ€“organic framework MIL-100(Fe) as an efficient catalyst for the selective catalytic reduction of NO_x with NH₃. RSC Advances, 2014, 4, 48912-48919.	3.6	80
82	Electrochemically enhanced adsorption of PFOA and PFOS on multiwalled carbon nanotubes in continuous flow mode. Science Bulletin, 2014, 59, 2890-2897.	1.7	17
83	Ultra-thin g-C3N4 nanosheets wrapped silicon nanowire array for improved chemical stability and enhanced photoresponse. Materials Research Bulletin, 2014, 59, 179-184.	5.2	12
84	Nitrogen-doped diamond electrode shows high performance for electrochemical reduction of nitrobenzene. Journal of Hazardous Materials, 2014, 265, 185-190.	12.4	41
85	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
86	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
87	Green Synthesis of Feather-Shaped MoS₂/CdS Photocatalyst for Effective Hydrogen Production. International Journal of Photoenergy, 2013, 2013, 1-5.	2.5	8
88	Nano-cubic structured titanium nitride particle films as cathodes for the effective electrocatalytic debromination of BDE-47. Journal of Hazardous Materials, 2012, 231-232, 105-113.	12.4	37
89	g-C3N4/TiO2 hybrid photocatalyst with wide absorption wavelength range and effective photogenerated charge separation. Separation and Purification Technology, 2012, 99, 50-54.	7.9	211
90	Graphene oxide modified g-C₃N₄hybrid with enhanced photocatalytic capability under visible light irradiation. Journal of Materials Chemistry, 2012, 22, 2721-2726.	6.7	687

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91	Salt-controlled assembly of stacked-graphene for capturing fluorescence and its application in chemical genotoxicity screening. Journal of Materials Chemistry, 2011, 21, 15266.	6.7	6
92	Graphene Sheets Grafted Ag@AgCl Hybrid with Enhanced Plasmonic Photocatalytic Activity under Visible Light. Environmental Science & Technology, 2011, 45, 5731-5736.	10.0	393
93	In situ controllable growth of noble metal nanodot on graphene sheet. Journal of Materials Chemistry, 2011, 21, 12986.	6.7	36
94	Graphene/silicon photoelectrode with high and stable photoelectrochemical response in aqueous solution. Applied Surface Science, 2011, 257, 7714-7718.	6.1	20
95	A Structured Macroporous Silicon/Graphene Heterojunction for Efficient Photoconversion. Angewandte Chemie - International Edition, 2010, 49, 5106-5109.	13.8	76
96	Effective Utilization of Visible Light (Including Î» > 600 nm) in Phenol Degradation with p-Silicon Nanowire/TiO₂ Core/Shell Heterojunction Array Cathode. Environmental Science & Technology, 2009, 43, 7849-7855.	10.0	35
97	â€œMulberry-likeâ€•CdSe Nanoclusters Anchored on TiO₂ Nanotube Arrays: A Novel Architecture with Remarkable Photoelectrochemical Performance. Chemistry of Materials, 2009, 21, 3090-3095.	6.7	105
98	Electrochemically Assisted Photocatalytic Inactivation of Escherichia coli under Visible Light Using a ZnIn₂S₄ Film Electrode. Langmuir, 2008, 24, 7599-7604.	3.5	91
99	Fabrication of nanomaterial models and their applications in water treatment. , 2007, , .		1
100	TiO₂â^'Multiwalled Carbon Nanotube Heterojunction Arrays and Their Charge Separation Capability. Journal of Physical Chemistry C, 2007, 111, 12987-12991.	3.1	222
101	Preparation and characterization of aligned carbon nanotubes coated with titania nanoparticles. Science Bulletin, 2006, 51, 2294-2296.	1.7	14