Yi Shen

List of Publications by Year in Descending Order

67 papers	2,791 citations	30 h-index	52 g-index
70 ext. papers	3,307 ext. citations	8 avg, IF	5.83 L-index

#	Paper	IF	Citations
67	Electro-oxidation of glycerol by tetrametallic platinum-gold–palladium-silver nanoparticles. *Journal of Applied Electrochemistry*, **2021**, 51, 79-86	2.6	4
66	Synthesis of magnetic Fe3O4@PS-ANTA-M2+ (M = Ni, Co, Cu and Zn) nanospheres for specific isolation of histidine-tagged proteins. *Chemical Engineering Journal*, **2021**, 404, 126427	14.7	5
65	Facile and moderate immobilization of proteases on SPS nanospheres for the active collagen peptides. *Food Chemistry*, **2021**, 335, 127610	8.5	2
64	Critical practices in conducting electrochemical conversion of 5-hydroxymethylfurfural. *Catalysis Science and Technology*, **2021**, 11, 4882-4888	5.5	1
63	Electro-Oxidation of Glycerol into Formic Acid by Nickel-Copper Electrocatalysts. *Journal of the Electrochemical Society*, **2021**, 168, 084510	3.9	1
62	Effects of Metallic Impurities in Alkaline Electrolytes on Electro-Oxidation of Water and Alcohol Molecules. *Journal of the Electrochemical Society*, **2021**, 168, 124516	3.9	0
61	Mechanistic study on nickel-molybdenum based electrocatalysts for the hydrogen evolution reaction. *Journal of Catalysis*, **2020**, 388, 122-129	7.3	13
60	Boosting activity and selectivity of glycerol oxidation over platinum–palladium–silver electrocatalysts via surface engineering. *Nanoscale Advances*, **2020**, 2, 3423-3430	5.1	4
59	Hemoglobin-derived Fe-Nx-S species supported by bamboo-shaped carbon nanotubes as efficient electrocatalysts for the oxygen evolution reaction. *Carbon*, **2020**, 168, 588-596	10.4	6
58	Optimizing the activity and selectivity of glycerol oxidation over core-shell electrocatalysts. *Journal of Catalysis*, **2020**, 381, 130-138	7.3	10
57	Fabricating electrochemical aptasensors for detecting aflatoxin B1 via layer-by-layer self-assembly. *Journal of Electroanalytical Chemistry*, **2020**, 870, 114247	4.1	14
56	General synthesis of single atom electrocatalysts via a facile condensation–carbonization process. *Journal of Materials Chemistry A*, **2020**, 8, 25959-25969	13	5
55	An intrinsically stretchable humidity sensor based on anti-drying, self-healing and transparent organohydrogels. *Materials Horizons*, **2019**, 6, 595-603	14.4	178
54	Adsorption of Bovine Hemoglobin by Sulfonated Polystyrene Nanospheres. *ChemistrySelect*, **2019**, 4, 2874-2880	1.8	3
53	Synthesis of Positively Charged Polystyrene Microspheres for the Removal of Congo Red, Phosphate, and Chromium(VI). *ACS Omega*, **2019**, 4, 6669-6676	3.9	10
52	Selective Electro-Oxidation of Glycerol to Dihydroxyacetone by PtAg Skeletons. *ACS Applied Materials & Interfaces*, **2019**, 11, 28953-28959	9.5	26
51	Exceptional Performance of Hierarchical Ni-Fe (hydr)oxide@NiCu Electrocatalysts for Water Splitting. *Advanced Materials*, **2019**, 31, e1806769	24	81

50	Seed-mediated synthesis of PtxAuy@Ag electrocatalysts for the selective oxidation of glycerol. *Applied Catalysis B: Environmental*, **2019**, 245, 604-612	21.8	49
49	Product Distribution of Glycerol Electro-oxidation over Platinum-Ceria/Graphene Nanosheet. *Electrochemistry*, **2019**, 87, 30-34	1.2	5
48	Efficient extraction of heavy metals from collagens by sulfonated polystyrene nanospheres. *Food Chemistry*, **2019**, 275, 377-384	8.5	16
47	Selective electro-oxidation of glycerol over Pd and Pt@Pd nanocubes. *Electrochemistry Communications*, **2018**, 90, 106-110	5.1	27
46	Nickel□Copper Alloy Encapsulated in Graphitic Carbon Shells as Electrocatalysts for Hydrogen Evolution Reaction. *Advanced Energy Materials*, **2018**, 8, 1701759	21.8	164
45	Sustainable Conversion of Glycerol into Value-Added Chemicals by Selective Electro-Oxidation on Pt-Based Catalysts. *ChemElectroChem*, **2018**, 5, 1624-1624	4.3	4
44	Holey-engineered electrodes for advanced vanadium flow batteries. *Nano Energy*, **2018**, 43, 55-62	17.1	81
43	Sustainable Conversion of Glycerol into Value-Added Chemicals by Selective Electro-Oxidation on Pt-Based Catalysts. *ChemElectroChem*, **2018**, 5, 1636-1643	4.3	36
42	Deactivation of bimetallic nickel□copper alloy catalysts in thermocatalytic decomposition of methane. *Catalysis Science and Technology*, **2018**, 8, 3853-3862	5.5	20
41	In Situ Assembly of Ultrathin PtRh Nanowires to Graphene Nanosheets as Highly Efficient Electrocatalysts for the Oxidation of Ethanol. *ACS Applied Materials & Interfaces*, **2017**, 9, 3535-3543	9.5	76
40	Electrochemical evaluation methods of vanadium flow battery electrodes. *Physical Chemistry Chemical Physics*, **2017**, 19, 14708-14717	3.6	28
39	Carbon dots promoted vanadium flow batteries for all-climate energy storage. *Chemical Communications*, **2017**, 53, 7565-7568	5.8	34
38	Cobalt□copper oxalate nanofibers mediated Fenton degradation of Congo red in aqueous solutions. *Journal of Industrial and Engineering Chemistry*, **2017**, 52, 153-161	6.3	22
37	One-pot synthesis of ultrafine decahedral platinum crystal decorated graphite nanosheets for the electro-oxidation of formic acid. *Journal of Catalysis*, **2017**, 345, 70-77	7.3	11
36	Synthesis of 3D iron and carbon-based composite as a bifunctional sorbent and catalyst for remediation of organic pollutants. *Materials Research Express*, **2017**, 4, 075005	1.7	0
35	Gram-scale synthesis of monodisperse sulfonated polystyrene nanospheres for rapid and efficient sequestration of heavy metal ions. *Chemical Communications*, **2017**, 53, 12766-12769	5.8	20
34	A trimodal porous carbon as an effective catalyst for hydrogen production by methane decomposition. *Journal of Colloid and Interface Science*, **2016**, 462, 48-55	9.3	16
33	Boosting vanadium flow battery performance by Nitrogen-doped carbon nanospheres electrocatalyst. *Nano Energy*, **2016**, 28, 19-28	17.1	136

32	ZrO2-Nanoparticle-Modified Graphite Felt: Bifunctional Effects on Vanadium Flow Batteries. *ACS Applied Materials & Interfaces*, **2016**, 8, 15369-78	9.5	185
31	Ternary Platinum-Copper-Nickel Nanoparticles Anchored to Hierarchical Carbon Supports as Free-Standing Hydrogen Evolution Electrodes. *ACS Applied Materials & Interfaces*, **2016**, 8, 3464-72	9.5	67
30	A facile approach to fabricate free-standing hydrogen evolution electrodes: riveting tungsten carbide nanocrystals to graphite felt fabrics by carbon nanosheets. *Journal of Materials Chemistry A*, **2016**, 4, 5817-5822	13	34
29	Synthesis of three-dimensional carbon felt supported TiO 2 monoliths for photocatalytic degradation of methyl orange. *Journal of Environmental Chemical Engineering*, **2016**, 4, 1259-1266	6.8	25
28	Scalable and Environmentally Friendly Synthesis of Hierarchical Magnetic Carbon Nanosheet Assemblies and Their Application in Water Treatment. *Journal of Physical Chemistry C*, **2016**, 120, 6659-6668	4.8	24
27	Constructing Three-Dimensional Hierarchical Architectures by Integrating Carbon Nanofibers into Graphite Felts for Water Purification. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 2351-2358	8.3	43
26	Alcohol electro-oxidation on platinum–ceria/graphene nanosheet in alkaline solutions. *International Journal of Hydrogen Energy*, **2016**, 41, 20709-20719	6.7	30
25	Coupling Mo2C Nanoparticles with Graphite Nanosheets as Durable Electrocatalysts for Hydrogen Evolution Reaction. *Journal of the Electrochemical Society*, **2016**, 163, H1060-H1065	3.9	7
24	Evaluation of the effects of frozen storage on the microstructure of tilapia (Perciformes: Cichlidae) through fractal dimension method. *LWT - Food Science and Technology*, **2015**, 64, 1283-1288	5.4	17
23	Evaluation of cobalt oxide, copper oxide and their solid solutions as heterogeneous catalysts for Fenton-degradation of dye pollutants. *RSC Advances*, **2015**, 5, 91846-91854	3.7	31
22	Polyol synthesis of nickel–copper based catalysts for hydrogen production by methane decomposition. *International Journal of Hydrogen Energy*, **2015**, 40, 311-321	6.7	37
21	Synthesis of Ni and Ni–Cu supported on carbon nanotubes for hydrogen and carbon production by catalytic decomposition of methane. *Applied Catalysis B: Environmental*, **2015**, 164, 61-69	21.8	123
20	One-Pot Synthesis of Platinum–Ceria/Graphene Nanosheet as Advanced Electrocatalysts for Alcohol Oxidation. *ChemElectroChem*, **2015**, 2, 887-895	4.3	37
19	Comparison study of few-layered graphene supported platinum and platinum alloys for methanol and ethanol electro-oxidation. *Journal of Power Sources*, **2015**, 278, 235-244	8.9	60
18	Sol–gel synthesis of titanium oxide supported nickel catalysts for hydrogen and carbon production by methane decomposition. *Journal of Power Sources*, **2015**, 280, 467-475	8.9	36
17	Sol–gel synthesis of Ni and Ni supported catalysts for hydrogen production by methane decomposition. *RSC Advances*, **2014**, 4, 42159-42167	3.7	22
16	Synthesis of ultrafine Pt nanoparticles stabilized by pristine graphene nanosheets for electro-oxidation of methanol. *ACS Applied Materials & Interfaces*, **2014**, 6, 15162-70	9.5	64
15	Electrocatalytic activity of Pt subnano/nanoclusters stabilized by pristine graphene nanosheets. *Physical Chemistry Chemical Physics*, **2014**, 16, 21609-14	3.6	24

14	SPEEK/Graphene oxide nanocomposite membranes with superior cyclability for highly efficient vanadium redox flow battery. *Journal of Materials Chemistry A*, **2014**, 2, 12423-12432	13	198
13	Synthesis of Pt, PtRh, and PtRhNi Alloys Supported by Pristine Graphene Nanosheets for Ethanol Electrooxidation. *ChemCatChem*, **2014**, 6, 3254-3261	5.2	42
12	Influence of inorganic fillers on the structural and transport properties of mixed matrix membranes. *Journal of Applied Polymer Science*, **2013**, 128, 4058-4066	2.9	17
11	Theoretical and experimental studies on the gas transport properties of mixed matrix membranes based on polyvinylidene fluoride. *AICHE Journal*, **2013**, 59, 4715-4726	3.6	24
10	Preparation and characterization of asymmetric membranes based on nonsolvent/NMP/P84 for gas separation. *Journal of Membrane Science*, **2013**, 429, 155-167	9.6	24
9	Preparation and characterization of polyimide–silica composite membranes and their derived carbon–silica composite membranes for gas separation. *Chemical Engineering Journal*, **2013**, 220, 441-451	14.7	56
8	A facile method for the large-scale continuous synthesis of graphene sheets using a novel catalyst. *Scientific Reports*, **2013**, 3, 3037	4.9	84
7	Preparation and characterization of mixed matrix membranes based on poly(vinylidene fluoride) and zeolite 4A for gas separation. *Polymer Engineering and Science*, **2012**, 52, 2106-2113	2.3	20
6	Structural and transport properties of BTDA-TDI/MDI co-polyimide (P84)–silica nanocomposite membranes for gas separation. *Chemical Engineering Journal*, **2012**, 188, 199-209	14.7	54
5	Preparation and characterization of mixed matrix membranes based on PVDF and three inorganic fillers (fumed nonporous silica, zeolite 4A and mesoporous MCM-41) for gas separation. *Chemical Engineering Journal*, **2012**, 192, 201-210	14.7	101
4	Effects of membrane thickness and heat treatment on the gas transport properties of membranes based on P84 polyimide. *Journal of Applied Polymer Science*, **2010**, 116, NA-NA	2.9	3
3	A new proton conducting membrane based on copolymer of methyl methacrylate and 2-acrylamido-2-methyl-1-propanesulfonic acid for direct methanol fuel cells. *Electrochimica Acta*, **2007**, 52, 6956-6961	6.7	32
2	Structural designing of Pt-CeO2/CNTs for methanol electro-oxidation. *Journal of Power Sources*, **2007**, 164, 555-560	8.9	109
1	PVDF-g-PSSA and Al2O3 composite proton exchange membranes. *Journal of Power Sources*, **2006**, 161, 54-60	8.9	53