Wei-Yong Yuan

List of Publications by Year
in descending order

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71 papers	3,190 citations	126858 33 h-index	155592 55 g-index
72 all docs	72 docs citations	72 times ranked	4216 citing authors

#	Article	IF	Citations
1	Construction of anti-adhesive and antibacterial multilayer films via layer-by-layer assembly of heparin and chitosan. Biomaterials, 2005, 26, 6684-6692.	5.7	426
2	Polymer/nanosilver composite coatings for antibacterial applications. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 439, 69-83.	2.3	215
3	pH-Controlled Construction of Chitosan/Alginate Multilayer Film:â€‰ Characterization and Application for Antibody Immobilization. Langmuir, 2007, 23, 13046-13052.	1.6	134
4	Polymer-Mediated Self-Assembly of TiO₂@Cu₂O Coreâ€“Shell Nanowire Array for Highly Efficient Photoelectrochemical Water Oxidation. ACS Applied Materials & Interfaces, 2016, 8, 6082-6092.	4.0	105
5	Tuning Pt-skinned PtAg nanotubes in nanoscales to efficiently modify electronic structure for boosting performance of methanol electrooxidation. Applied Catalysis B: Environmental, 2020, 265, 118606.	10.8	83
6	Perforated Pd Nanosheets with Crystalline/Amorphous Heterostructures as a Highly Active Robust Catalyst toward Formic Acid Oxidation. Small, 2019, 15, e1904245.	5.2	81
7	Layered and Heterostructured Pd/PdWCr Sheetâ€Assembled Nanoflowers as Highly Active and Stable Electrocatalysts for Formic Acid Oxidation. Advanced Functional Materials, 2020, 30, 2003933.	7.8	81
8	A facile method to construct hybrid multilayered films as a strong and multifunctional antibacterial coating. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2008, 85B, 556-563.	1.6	75
9	In situ synthesized heteropoly acid/polyaniline/graphene nanocomposites to simultaneously boost both double layer- and pseudo-capacitance for supercapacitors. Physical Chemistry Chemical Physics, 2012, 14, 12823.	1.3	72
10	Weak polyelectrolyte-based multilayers via layer-by-layer assembly: Approaches, properties, and applications. Advances in Colloid and Interface Science, 2020, 282, 102200.	7.0	72
11	Twisted palladium-copper nanochains toward efficient electrocatalytic oxidation of formic acid. Journal of Colloid and Interface Science, 2019, 537, 366-374.	5.0	68
12	CoP Nanoparticles in Situ Grown in Three-Dimensional Hierarchical Nanoporous Carbons as Superior Electrocatalysts for Hydrogen Evolution. ACS Applied Materials & Interfaces, 2016, 8, 20720-20729.	4.0	67
13	Ni foam supported three-dimensional vertically aligned and networked layered CoO nanosheet/graphene hybrid array as a high-performance oxygen evolution electrode. Journal of Power Sources, 2016, 319, 159-167.	4.0	64
14	Facile fabrication of stable PdCu clusters uniformly decorated on graphene as an efficient electrocatalyst for formic acid oxidation. International Journal of Hydrogen Energy, 2019, 44, 2731-2740.	3.8	64
15	Controllable Synthesis of Webâ€Footed PdCu Nanosheets and Their Electrocatalytic Applications. Small, 2022, 18, e2107623.	5.2	62
16	Pt-based nanoparticles on non-covalent functionalized carbon nanotubes as effective electrocatalysts for proton exchange membrane fuel cells. RSC Advances, 2014, 4, 46265-46284.	1.7	60
17	Controllable synthesis of graphene supported MnO₂nanowires via self-assembly for enhanced water oxidation in both alkaline and neutral solutions. Journal of Materials Chemistry A, 2014, 2, 123-129.	5.2	59
18	'Environment-friendly' polymer solid electrolyte membrane via a rapid surface-initiating polymeration strategy. Chemical Engineering Journal, 2021, 421, 129710.	6.6	58

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19	Direct Modulation of Localized Surface Plasmon Coupling of Au Nanoparticles on Solid Substrates via Weak Polyelectrolyte-Mediated Layer-by-Layer Self Assembly. Langmuir, 2009, 25, 7578-7585.	1.6	57
20	Controllably self-assembled graphene-supported Au@Pt bimetallic nanodendrites as superior electrocatalysts for methanol oxidation in direct methanol fuel cells. Journal of Materials Chemistry A, 2016, 4, 7352-7364.	5.2	57
21	Ultrafast synthesis of uniform 4â€“5 atoms-thin layered tremella-like Pd nanostructure with extremely large electrochemically active surface area for formic acid oxidation. Journal of Power Sources, 2020, 447, 227248.	4.0	56
22	Facile one-pot surfactant-free synthesis of uniform Pd₆Co nanocrystals on 3D graphene as an efficient electrocatalyst toward formic acid oxidation. Nanoscale, 2016, 8, 1905-1909.	2.8	52
23	Controllably layer-by-layer self-assembled polyelectrolytes/nanoparticle blend hollow capsules and their unique properties. Journal of Materials Chemistry, 2011, 21, 5148.	6.7	48
24	Significance of wall number on the carbon nanotube support-promoted electrocatalytic activity of Pt NPs towards methanol/formic acid oxidation reactions in direct alcohol fuel cells. Journal of Materials Chemistry A, 2015, 3, 1961-1971.	5.2	47
25	Layered PdW nanosheet assemblies for alcohol electrooxidation. Applied Surface Science, 2021, 537, 147860.	3.1	44
26	Synthesis of Cobalt Phosphide Nanoparticles Supported on Pristine Graphene by Dynamically Selfâ€Assembled Graphene Quantum Dots for Hydrogen Evolution. ChemSusChem, 2017, 10, 1014-1021.	3.6	42
27	Improved Interface Stability and Room-Temperature Performance of Solid-State Lithium Batteries by Integrating Cathode/Electrolyte and Graphite Coating. ACS Applied Materials & Interfaces, 2020, 12, 15120-15127.	4.0	41
28	Self-assembled chitosan/heparin multilayer film as a novel template for in situ synthesis of silver nanoparticles. Colloids and Surfaces B: Biointerfaces, 2010, 76, 549-555.	2.5	40
29	Controlled self-assembly of Ni foam supported poly(ethyleneimine)/reduced graphene oxide three-dimensional composite electrodes with remarkable synergistic effects for efficient oxygen evolution. Journal of Materials Chemistry A, 2017, 5, 1201-1210.	5.2	38
30	Enhanced ionic conductivity and lithium dendrite suppression of polymer solid electrolytes by alumina nanorods and interfacial graphite modification. Journal of Colloid and Interface Science, 2021, 590, 50-59.	5.0	38
31	Exponentially growing layer-by-layer assembly to fabricate pH-responsive hierarchical nanoporous polymeric film and its superior controlled release performance. Chemical Communications, 2010, 46, 9161.	2.2	36
32	Diethylenetriamine-mediated self-assembly of three-dimensional hierarchical nanoporous CoP nanoflowers/pristine graphene interconnected networks as efficient electrocatalysts toward hydrogen evolution. Sustainable Energy and Fuels, 2017, 1, 2172-2180.	2.5	35
33	Charged drug delivery by ultrafast exponentially grown weak polyelectrolyte multilayers: amphoteric properties, ultrahigh loading capacity and pH-responsiveness. Journal of Materials Chemistry, 2012, 22, 9351.	6.7	34
34	Stimuliâ€Free Reversible and Controllable Loading and Release of Proteins under Physiological Conditions by Exponentially Growing Nanoporous Multilayered Structure. Advanced Functional Materials, 2012, 22, 1932-1939.	7.8	32
35	Heteropolyacid-Mediated Self-Assembly of Heteropolyacid-Modified Pristine Graphene Supported Pd Nanoflowers for Superior Catalytic Performance toward Formic Acid Oxidation. ACS Applied Energy Materials, 2018, 1, 411-420.	2.5	31
36	Improved ionic conductivity and Li dendrite suppression of PVDF-based solid electrolyte membrane by LLZO incorporation and mechanical reinforcement. Ionics, 2021, 27, 1101-1111.	1.2	31

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37	Self-assembled CeO2 on carbon nanotubes supported Au nanoclusters as superior electrocatalysts for glycerol oxidation reaction of fuel cells. Electrochimica Acta, 2016, 190, 817-828.	2.6	30
38	Polymer-Mediated Self-Assembly of Amorphous Metalâ€“Organic Complexes toward Fabrication of Three-Dimensional Graphene Supported CoP Nanoparticle-Embedded N-Doped Carbon as a Superior Hydrogen Evolution Catalyst. ACS Applied Energy Materials, 2019, 2, 8851-8861.	2.5	30
39	In situ growth of Î±-Fe₂O₃@Co₃O₄ coreâ€“shell wormlike nanoarrays for a highly efficient photoelectrochemical water oxidation reaction. Nanoscale, 2019, 11, 1111-1122.	2.8	29
40	Tannic Acid-Mediated In Situ Controlled Assembly of NiFe Alloy Nanoparticles on Pristine Graphene as a Superior Oxygen Evolution Catalyst. ACS Applied Energy Materials, 2020, 3, 3966-3977.	2.5	29
41	Self-assembling microsized materials to fabricate multifunctional hierarchical nanostructures on macroscale substrates. Journal of Materials Chemistry A, 2013, 1, 6416.	5.2	28
42	Biomassâ€Derived Hierarchical Nanoporous Carbon with Rich Functional Groups for Directâ€Electronâ€Transferâ€Based Glucose Sensing. ChemElectroChem, 2016, 3, 144-151.	1.7	26
43	Remarkably promoted photoelectrochemical water oxidation on TiO2 nanowire arrays via polymer-mediated self-assembly of CoOx nanoparticles. Solar Energy Materials and Solar Cells, 2020, 207, 110349.	3.0	26
44	Surface Nitridation of PdCu Nanosheets to Promote Charge Transfer and Suppress CO Poisoning toward Ethanol Electrooxidation. Advanced Materials Interfaces, 2022, 9, .	1.9	26
45	Pristineâ€Grapheneâ€Supported Nitrogenâ€Doped Carbon Selfâ€Assembled from Glucaminiumâ€Based Ionic Liquids as Metalâ€Free Catalyst for Oxygen Evolution. ChemSusChem, 2019, 12, 5041-5050.	3.6	25
46	Ultrasmall and uniform Pt3Au clusters strongly suppress Ostwald ripening for efficient ethanol oxidation. Electrochemistry Communications, 2017, 84, 1-5.	2.3	24
47	Directionally In Situ Selfâ€Assembled, Highâ€Density, Macroporeâ€Oriented, CoPâ€Impregnated, 3D Hierarchical Porous Carbon Sheet Nanostructure for Superior Electrocatalysis in the Hydrogen Evolution Reaction. Small, 2022, 18, e2103866.	5.2	24
48	Holey PdPb nanosheet array: An advanced catalyst for methanol electrooxidation. International Journal of Hydrogen Energy, 2021, 46, 2236-2243.	3.8	22
49	Safety-Enhanced Flexible Polypropylene Oxideâ€“ZrO₂ Composite Solid Electrolyte Film with High Room-Temperature Ionic Conductivity. ACS Sustainable Chemistry and Engineering, 2021, 9, 11118-11126.	3.2	22
50	Ionic liquid in situ functionalized carbon nanotubes as metal-free catalyst for efficient electrocatalytic hydrogen evolution reaction. Nanoscale, 2021, 13, 4444-4450.	2.8	22
51	Ionic liquid functionalized carbon nanotubes: metal-free electrocatalyst for hydrogen evolution reaction. RSC Advances, 2016, 6, 12792-12796.	1.7	21
52	In situ self-assembled 3-D interconnected pristine graphene supported NiO nanosheets as superior catalysts for oxygen evolution. Electrochimica Acta, 2020, 342, 136118.	2.6	21
53	Self-assembled ultrasmall mixed Coâ€“W phosphide nanoparticles on pristine graphene with remarkable synergistic effects as highly efficient electrocatalysts for hydrogen evolution. Journal of Materials Chemistry A, 2022, 10, 7694-7704.	5.2	20
54	Integrating high ionic conductive PDOL solid/gel composite electrolyte for enhancement of interface combination and lithium dentrite inhibition of solid-state lithium battery. Journal of Colloid and Interface Science, 2022, 620, 199-208.	5.0	20

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55	Highly Efficient Interface Modification between Poly(Propylene Carbonate)-Based Solid Electrolytes and a Lithium Anode by Facile Graphite Coating. ACS Sustainable Chemistry and Engineering, 2020, 8, 17106-17115.	3.2	15
56	Synthesis of Palladiumâ€“Tungsten Metallene-Constructed Sandwich-Like Nanosheets as Bifunctional Catalysts for Direct Formic Acid Fuel Cells. ACS Applied Energy Materials, 2021, 4, 12336-12344.	2.5	15
57	Dynamically self-assembled adenine-mediated synthesis of pristine graphene-supported clean Pd nanoparticles with superior electrocatalytic performance toward formic acid oxidation. Journal of Colloid and Interface Science, 2022, 613, 515-523.	5.0	15
58	Sacrificial polymer thin-film template with tunability to construct high-density Au nanoparticle arrays and their refractive index sensing. Physical Chemistry Chemical Physics, 2013, 15, 15499.	1.3	12
59	In situ self-assembled N-rich carbon on pristine graphene as a highly effective support and cocatalyst of short Pt nanoparticle chains for superior electrocatalytic activity toward methanol oxidation. Nanoscale, 2021, 13, 18332-18339.	2.8	12
60	ZnO nanowire array-templated LbL self-assembled polyelectrolyte nanotube arrays and application for charged drug delivery. Nanotechnology, 2013, 24, 045605.	1.3	10
61	Cross-Linked Polypropylene Oxide Solid Electrolyte Film with Enhanced Mechanical, Thermal, and Electrochemical Properties via Additive Modification. ACS Applied Polymer Materials, 2021, 3, 6539-6547.	2.0	9
62	Unique Coâ€Catalytic Behavior of Protic Ionic Liquids as Multifunctional Electrolytes for Water Splitting. ChemElectroChem, 2016, 3, 204-208.	1.7	8
63	ZnO nanowire arrays with in situ sequentially self-assembled vertically oriented CdS nanosheets as superior photoanodes for photoelectrochemical water splitting. Sustainable Energy and Fuels, 2022, 6, 3240-3248.	2.5	8
64	Tungsten-induced synthesis of defective palladiumâ€“copperâ€“tungsten trimetallic nanochains to highly enhance activity for formic acid electrooxidation. Materials Today Energy, 2020, 18, 100558.	2.5	7
65	Facile synthesis of heterophase sponge-like Pd toward enhanced formic acid oxidation. Electrochemistry Communications, 2021, 126, 107004.	2.3	7
66	Three-Dimensional Ni Foam-Supported CoO Nanoparticles/N-Doped Carbon Multilayer Nanocomposite Electrode for Oxygen Evolution. ACS Applied Nano Materials, 2020, 3, 11416-11425.	2.4	6
67	Three-dimensional Ni foam supported pristine graphene as a superior oxygen evolution electrode. International Journal of Hydrogen Energy, 2019, 44, 22947-22954.	3.8	5
68	A novel all-fiber-based LiFePO₄/Li₄Ti₅O₁₂ battery with self-standing nanofiber membrane electrodes. Beilstein Journal of Nanotechnology, 2019, 10, 2229-2237.	1.5	5
69	Synthesis of hierarchical interconnected graphene oxide for enhanced oxygen reduction. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 610, 125719.	2.3	4
70	Highly Adaptable Poly(ether-acrylate) Solid Electrolyte for Cathode/Electrolyte Interface Integration and Application in Lithium Metal-Free Solid-State Batteries. ACS Applied Energy Materials, 2021, 4, 12989-12997.	2.5	2
71	Directionally In Situ Selfâ€Assembled, Highâ€Density, Macroporeâ€Oriented, CoPâ€Impregnated, 3D Hierarchical Porous Carbon Sheet Nanostructure for Superior Electrocatalysis in the Hydrogen Evolution Reaction (Small 2/2022). Small, 2022, 18, .	5.2	0