

# Jun Yang

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

102  
papers

3,310  
citations

31  
h-index

54  
g-index

112  
ext. papers

4,129  
ext. citations

9.1  
avg, IF

5.82  
L-index

#	Paper	IF	Citations
102	Manipulation of Mott-Schottky Ni/CeO Heterojunctions into N-Doped Carbon Nanofibers for High-Efficiency Electrochemical Water Splitting.. <i>Small</i> , <b>2022</b> , e2106592	11	5
101	Interfacial engineering-induced electronic regulation drastically enhances the electrocatalytic oxygen evolution: Immobilization of Janus-structured NiS/NiO nanoparticles onto carbon nanotubes/nanofiber-integrated superstructures. <i>Chemical Engineering Journal</i> , <b>2022</b> , 428, 131094	14.7	9
100	Suppressing oxygen vacancies on the surface of Li-rich material as a high-energy cathode via high oxygen affinity Ca <sub>0.95</sub> Bi <sub>0.05</sub> MnO <sub>3</sub> coating. <i>Electrochimica Acta</i> , <b>2022</b> , 421, 140465	6.7	
99	Atomically Dispersed Mo Sites Anchored on Multichannel Carbon Nanofibers toward Superior Electrocatalytic Hydrogen Evolution. <i>ACS Nano</i> , <b>2021</b> ,	16.7	8
98	Electronic and lattice strain dual tailoring for boosting Pd electrocatalysis in oxygen reduction reaction. <i>IScience</i> , <b>2021</b> , 24, 103332	6.1	1
97	Ternary synergistic catalyst system of PtCuMo <sub>2</sub> C with high activity and durability for alcohol oxidation. <i>Materials Today Physics</i> , <b>2021</b> , 17, 100357	8	14
96	Combining the core-shell construction with an alloying effect for high efficiency ethanol electrooxidation. <i>Cell Reports Physical Science</i> , <b>2021</b> , 2, 100357	6.1	9
95	Encapsulation of NiCo nanoparticles into foam-like porous N,P-codoped carbon nanosheets: Electronic and architectural dual regulations toward high-efficiency water electrolysis. <i>Chemical Engineering Journal</i> , <b>2021</b> , 410, 128325	14.7	6
94	Core-shell AgPt nanoparticles: A versatile platform for the synthesis of heterogeneous nanostructures towards catalyzing electrochemical reactions. <i>Chinese Chemical Letters</i> , <b>2021</b> , 32, 3288-3288	8.1	3
93	Heterogeneous nanocomposites consisting of Pt <sub>3</sub> Co alloy particles and CoP <sub>2</sub> nanorods towards high-efficiency methanol electro-oxidation. <i>SmartMat</i> , <b>2021</b> , 2, 234-245	22.8	11
92	One-Step Template/Solvent-Free Pyrolysis for In Situ Immobilization of CoP Nanoparticles onto N and P Co-Doped Carbon Porous Nanosheets towards High-efficiency Electrocatalytic Hydrogen Evolution. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 9850-9857	4.8	3
91	A dual ligand coordination strategy for synthesizing drum-like Co, N co-doped porous carbon electrocatalyst towards superior oxygen reduction and zinc-air batteries. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> ,	6.7	5
90	MOF-assisted synthesis of Ni, Co, Zn, and N multidoped porous carbon as highly efficient oxygen reduction electrocatalysts in Zn  air batteries. <i>Materials Today Energy</i> , <b>2021</b> , 19, 100579	7	7
89	PEDOT functionalized ZIF-67 derived Co-N-S triple-doped porous carbon for high-efficiency oxygen reduction. <i>Applied Surface Science</i> , <b>2021</b> , 535, 147659	6.7	10
88	Interfacial Engineering-Triggered Bifunctionality of CoS /MoS Nanocubes/Nanosheet Arrays for High-Efficiency Overall Water Splitting. <i>ChemSusChem</i> , <b>2021</b> , 14, 699-708	8.3	23
87	Efficient overall water splitting catalyzed by robust FeNi <sub>3</sub> N nanoparticles with hollow interiors. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 7750-7758	13	18
86	immobilization of Fe/FeC/FeO hollow hetero-nanoparticles onto nitrogen-doped carbon nanotubes towards high-efficiency electrocatalytic oxygen reduction. <i>Nanoscale</i> , <b>2021</b> , 13, 5400-5409	7.7	9

85	Confinement of sulfur-doped NiO nanoparticles into N-doped carbon nanotube/nanofiber-coupled hierarchical branched superstructures: Electronic modulation by anion doping boosts oxygen evolution electrocatalysis. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 63, 585-585	12	3
84	Core-shell Au@PtIr nanowires with dendritic alloy shells as efficient bifunctional catalysts toward methanol oxidation and hydrogen evolution reactions. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 36771-36771	6.7	2
83	Bidirectional controlling synthesis of branched PdCu nanoalloys for efficient and robust formic acid oxidation electrocatalysis. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 600, 503-512	9.3	5
82	Interfacial engineering Co and MnO within N,S co-doped carbon hierarchical branched superstructures toward high-efficiency electrocatalytic oxygen reduction for robust Zn-air batteries. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 295, 120281	21.8	22
81	Encapsulation of Janus-structured Ni/Ni <sub>2</sub> P nanoparticles within hierarchical wrinkled N-doped carbon nanofibers: Interface engineering induces high-efficiency water oxidation. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 298, 120578	21.8	13
80	Electrochemical hydrogen evolution reaction efficiently catalyzed by Ru $\square$ coupling in defect-rich Ru/g-C <sub>3</sub> N <sub>4</sub> nanosheets. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 15019-15026	13	9
79	High recycling Fe <sub>3</sub> O <sub>4</sub> -CdTe nanocomposites for the detection of organophosphorothioate pesticide chlorpyrifos. <i>Green Energy and Environment</i> , <b>2020</b> , 7, 229-229	5.7	0
78	Surface composition dominates the electrocatalytic reduction of CO <sub>2</sub> on ultrafine CuPd nanoalloys <b>2020</b> , 2, 443-451		22
77	Core-shell gold-nickel nanostructures as highly selective and stable nonenzymatic glucose sensor for fermentation process. <i>Scientific Reports</i> , <b>2020</b> , 10, 1365	4.9	28
76	Sulfonated cobalt phthalocyanine-derived Co-N-S tridoped carbon nanotubes as platinum catalyst supports for highly efficient methanol electrooxidation. <i>Applied Surface Science</i> , <b>2020</b> , 511, 145519	6.7	7
75	Template-free synthesis of platinum hollow-opened structures in deep-eutectic solvents and their enhanced performance for methanol electrooxidation. <i>Electrochimica Acta</i> , <b>2020</b> , 337, 135742	6.7	14
74	Unconventional Alloys Confined in Nanoparticles: Building Blocks for New Matter. <i>Matter</i> , <b>2020</b> , 3, 1646-1663	16.63	23
73	Fine platinum nanoparticles supported on polyindole-derived nitrogen-doped carbon nanotubes for efficiently catalyzing methanol electrooxidation. <i>Applied Surface Science</i> , <b>2020</b> , 501, 144260	6.7	19
72	Hard-Sphere Random Close-Packed Au Cd (TBBT) Nanoclusters with a Faradaic Efficiency of Up to 96 % for Electrocatalytic CO Reduction to CO. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 3073-3077	16.4	69
71	In Situ Anchoring of Zeolite Imidazole Framework-Derived Co, N-Doped Porous Carbon on Multiwalled Carbon Nanotubes toward Efficient Electrocatalytic Oxygen Reduction. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 478-485	8.3	24
70	Interfacial Pd-O-Ce Linkage Enhancement Boosting Formic Acid Electrooxidation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 47065-47075	9.5	21
69	Worm-like Pt nanoparticles anchored on graphene with S, N co-doping and Fe <sub>3</sub> O <sub>4</sub> functionalization for boosting the electrooxidation of methanol. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 22929-22937	6.7	6
68	A perspective of chalcogenide semiconductor-noble metal nanocomposites through structural transformations. <i>Nano Materials Science</i> , <b>2019</b> , 1, 184-197	10.2	5

67	Rough-surfaced bimetallic copper-palladium alloy multicubes as highly bifunctional electrocatalysts for formic acid oxidation and oxygen reduction. <i>Green Energy and Environment</i> , <b>2019</b> , 4, 254-263	5.7	12
66	An Introduction to Noble Metal-Based Composite Nanomaterials <b>2019</b> , 1-33		1
65	Nanocomposites Consisting of Chalcogenide Semiconductors and Other Noble Metals <b>2019</b> , 149-192		1
64	Nanocatalysts for Electrocatalytic Oxidation of Ethanol. <i>ChemSusChem</i> , <b>2019</b> , 12, 2117-2132	8.3	83
63	Nanocomposites Consisting of Metal Oxides and Noble Metals <b>2019</b> , 301-381		
62	A Molecular-Based Design of RGO/TiO <sub>2</sub> -PAM Composite Flocculant with Photocatalytic Self-Degrading Characteristics and the Application of the Oil Sand Tailings Flocculant. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 6758-6768	8.3	15
61	Research on self-degradation of RGO/TiO <sub>2</sub> -P(AM-DAC) organic-inorganic composite flocculant prepared by surface initiated polymerization and its flocculation mechanism of oil sand tailings. <i>European Polymer Journal</i> , <b>2019</b> , 120, 109165	5.2	10
60	Preparation of RGO/TiO <sub>2</sub> /Ag Aerogel and Its Photodegradation Performance in Gas Phase Formaldehyde. <i>Scientific Reports</i> , <b>2019</b> , 9, 16314	4.9	7
59	Tailoring the Selectivity of Bimetallic Copper-Palladium Nanoalloys for Electrocatalytic Reduction of CO <sub>2</sub> to CO. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 883-890	6.1	47
58	Understanding the formation of nanocomposites consisting of silver sulfide and platinum hollow nanostructures. <i>Journal of Solid State Chemistry</i> , <b>2018</b> , 265, 387-392	3.3	2
57	Replacement reaction-based synthesis of supported palladium catalysts with atomic dispersion for catalytic removal of benzene. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 17032-17039	13	18
56	Immobilizing Ultrafine PtNi Nanoparticles within Graphitic Carbon Nanosheets toward High-Performance Hydrogenation Reaction. <i>ACS Omega</i> , <b>2018</b> , 3, 16436-16442	3.9	4
55	Fine silver sulfide-platinum nanocomposites supported on carbon substrates for the methanol oxidation reaction. <i>RSC Advances</i> , <b>2017</b> , 7, 3455-3460	3.7	14
54	Bimetallic Cu-Pd alloy multipods and their highly electrocatalytic performance for formic acid oxidation and oxygen reduction. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 4421-4429	13	148
53	Intracellular accumulation and immunological responses of lipid modified magnetic iron nanoparticles in mouse antigen processing cells. <i>Biomaterials Science</i> , <b>2017</b> , 5, 1603-1611	7.4	8
52	Recent advances in noble metal-based nanocomposites for electrochemical reactions. <i>Materials Today Energy</i> , <b>2017</b> , 6, 115-127	7	34
51	Uniformly dispersed platinum-cobalt alloy nanoparticles with stable compositions on carbon substrates for methanol oxidation reaction. <i>Scientific Reports</i> , <b>2017</b> , 7, 11421	4.9	20
50	Fine platinum nanoparticles supported on a porous ceramic membrane as efficient catalysts for the removal of benzene. <i>Scientific Reports</i> , <b>2017</b> , 7, 16589	4.9	13

49	A selective electrocatalyst-based direct methanol fuel cell operated at high concentrations of methanol. <i>Science Advances</i> , <b>2017</b> , 3, e1700580	14.3	88
48	Heterogeneous nanocomposites of silver selenide and hollow platinum nanoparticles toward methanol oxidation reaction. <i>Journal of Power Sources</i> , <b>2016</b> , 327, 432-437	8.9	17
47	Core-shell Au-Pd nanoparticles as cathode catalysts for microbial fuel cell applications. <i>Scientific Reports</i> , <b>2016</b> , 6, 35252	4.9	24
46	Platinum-based heterogeneous nanomaterials via wet-chemistry approaches toward electrocatalytic applications. <i>Advances in Colloid and Interface Science</i> , <b>2016</b> , 230, 29-53	14.3	44
45	Emerging nanostructured materials for the catalytic removal of volatile organic compounds. <i>Nanotechnology Reviews</i> , <b>2016</b> , 5,	6.3	21
44	Gold-catalyzed formation of core-shell gold-palladium nanoparticles with palladium shells up to three atomic layers. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 3813-3821	13	51
43	Enhanced non-inflammasome mediated immune responses by mannosylated zwitterionic-based cationic liposomes for HIV DNA vaccines. <i>Biomaterials</i> , <b>2016</b> , 85, 1-17	15.6	49
42	Reduced graphene oxide modified platinum catalysts for the oxidation of volatile organic compounds. <i>Catalysis Today</i> , <b>2016</b> , 278, 203-208	5.3	25
41	Nanodendritic Platinum Supported on $\gamma$ -Alumina for Complete Benzene Oxidation. <i>Particle and Particle Systems Characterization</i> , <b>2016</b> , 33, 620-627	3.1	10
40	Cage-shell Pt-Pd nanostructures with enhanced catalytic properties and superior methanol tolerance for oxygen reduction reaction. <i>Scientific Reports</i> , <b>2016</b> , 6, 24600	4.9	10
39	Noble metal-based composite nanomaterials fabricated via solution-based approaches. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 3182-3223	13	82
38	Core-shell Au@Pd nanoparticles with enhanced catalytic activity for oxygen reduction reaction via core-shell Au@Ag/Pd constructions. <i>Scientific Reports</i> , <b>2015</b> , 5, 11949	4.9	91
37	Formation of composite dimers consisting of Ag <sub>2</sub> S and hollow structured Pd nanoparticles. <i>CrystEngComm</i> , <b>2015</b> , 17, 6155-6162	3.3	9
36	A seed-mediated approach to the morphology-controlled synthesis of bimetallic copper-platinum alloy nanoparticles with enhanced electrocatalytic performance for the methanol oxidation reaction. <i>Journal of Power Sources</i> , <b>2015</b> , 286, 488-494	8.9	39
35	Effects of cerium incorporation on the catalytic oxidation of benzene over flame-made perovskite La <sub>1-x</sub> Ce <sub>x</sub> MnO <sub>3</sub> catalysts. <i>Particuology</i> , <b>2015</b> , 19, 60-68	2.8	53
34	Enhancing the methanol tolerance of platinum nanoparticles for the cathode reaction of direct methanol fuel cells through a geometric design. <i>Scientific Reports</i> , <b>2015</b> , 5, 16219	4.9	24
33	One-pot synthesis of noble metal nanoparticles with a core-shell construction. <i>CrystEngComm</i> , <b>2015</b> , 17, 1826-1832	3.3	20
32	Nanoscale noble metals with a hollow interior formed through inside-out diffusion of silver in solid-state core-shell nanoparticles. <i>Nano Research</i> , <b>2015</b> , 8, 512-522	10	10

31	Enhancing the electrocatalytic property of hollow structured platinum nanoparticles for methanol oxidation through a hybrid construction. <i>Scientific Reports</i> , <b>2014</b> , 4, 6204	4.9	35
30	Selective electrocatalysts toward a prototype of the membraneless direct methanol fuel cell. <i>Scientific Reports</i> , <b>2014</b> , 4, 3813	4.9	25
29	Stellated Ag-Pt bimetallic nanoparticles: an effective platform for catalytic activity tuning. <i>Scientific Reports</i> , <b>2014</b> , 4, 3969	4.9	63
28	A universal approach to the synthesis of nanodendrites of noble metals. <i>Nanoscale</i> , <b>2014</b> , 6, 6173-9	7.7	25
27	Bimetallic Ag-hollow Pt heterodimers via inside-out migration of Ag in core-shell AgPt nanoparticles at elevated temperature. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 7075-7081	13	39
26	Pt-Containing Ag <sub>2</sub> S-Noble Metal Nanocomposites as Highly Active Electrocatalysts for the Oxidation of Formic Acid. <i>Nano-Micro Letters</i> , <b>2014</b> , 6, 252-257	19.5	21
25	Effect of Reduction Treatment on Structural Properties of TiO <sub>2</sub> Supported Pt Nanoparticles and Their Catalytic Activity for Benzene Oxidation. <i>Catalysis Letters</i> , <b>2014</b> , 144, 1080-1087	2.8	24
24	Highly catalytic hollow palladium nanoparticles derived from silver@silver-palladium core-shell nanostructures for the oxidation of formic acid. <i>Journal of Power Sources</i> , <b>2014</b> , 272, 152-159	8.9	44
23	A Universal and Cost-Effective Approach to the Synthesis of Carbon-Supported Noble Metal Nanoparticles with Hollow Interiors. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 5925-5931	3.9	33
22	Alloy CuPt nanoframes through the structure evolution in Cu-Pt nanoparticles with a core-shell construction. <i>Scientific Reports</i> , <b>2014</b> , 4, 6414	4.9	86
21	Pt-Containing Ag <sub>2</sub> S-Noble Metal Nanocomposites as Highly Active Electrocatalysts for the Oxidation of Formic Acid <b>2014</b> , 6, 252		1
20	PtCuS heterodimers by sulfidation of CuPt alloy nanoparticles and their selective catalytic activity toward methanol oxidation. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 11880	13	43
19	Fabrication of Hollow and Yolk-Shell Structured Fe <sub>2</sub> O <sub>3</sub> Nanoparticles with Versatile Configurations. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 1303-1308	3.9	12
18	A core-shell templated approach to the nanocomposites of silver sulfide and noble metal nanoparticles with hollow/cage-shell structures. <i>Nanoscale</i> , <b>2013</b> , 5, 6901-7	7.7	37
17	Pt-IrO <sub>2</sub> nanorod array electrode for oxygen evolution in PEM water electrolysis cell. <i>Asia-Pacific Journal of Chemical Engineering</i> , <b>2013</b> , 8, 271-277	1.3	5
16	Cage-shell structured AuPt nanomaterials with enhanced electrocatalytic activity toward oxygen reduction. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 13191-13199	6.7	17
15	Enhanced electrocatalytic activity of Pt-nanostructures prepared by electrodeposition using poly(vinyl pyrrolidone) as a shape-control agent. <i>Electrochimica Acta</i> , <b>2012</b> , 83, 383-386	6.7	10
14	Morphology and lateral strain control of Pt nanoparticles via core-shell construction using alloy AgPd core toward oxygen reduction reaction. <i>ACS Nano</i> , <b>2012</b> , 6, 9373-82	16.7	139

13	Heterogeneous Au-Pt nanostructures with enhanced catalytic activity toward oxygen reduction. <i>Dalton Transactions</i> , <b>2012</b> , 41, 2898-903	4.3	51
12	Hollow and cage-bell structured nanomaterials of noble metals. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 11602-10	16.4	141
11	An effective strategy for small-sized and highly-dispersed palladium nanoparticles supported on graphene with excellent performance for formic acid oxidation. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 3384		220
10	Phase transfer and its applications in nanotechnology. <i>Chemical Society Reviews</i> , <b>2011</b> , 40, 1672-96	58.5	193
9	Ag facilitated shape control of transition-metal nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2011</b> , 385, 85-90	5.1	6
8	Ultrafine Pt Nanoclusters for the Direct Methanol Fuel Cell Reactions. <i>Journal of Cluster Science</i> , <b>2011</b> , 22, 173-181	3	5
7	Nanocomposites of Ag <sub>2</sub> S and Noble Metals. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 4733-4739	3.6	12
6	Nanocomposites of Ag <sub>2</sub> S and noble metals. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 4637-436.4	17.8	
5	Highly Reactive Se Precursor for the Phosphine-Free Synthesis of Metal Selenide Nanocrystals. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 5672-5677	9.6	62
4	Diffusion of gold from the inner core to the surface of Ag(2)S nanocrystals. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 2114-5	16.4	70
3	Mechanistic Study on the Bis(p-sulfonatophenyl)phenylphosphine Synthesis of Monometallic Pt Hollow Nanoboxes Using Ag*Pt CoreShell Nanocubes as Sacrificial Templates. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 14084-14090	3.8	44
2	Size and composition tunable AgAu alloy nanoparticles by replacement reactions. <i>Nanotechnology</i> , <b>2007</b> , 18, 245605	3.4	114
1	In situ establishment of Co/MoS <sub>2</sub> heterostructures onto inverse opal-structured N,S-doped carbon hollow nanospheres: Interfacial and architectural dual engineering for efficient hydrogen evolution reaction. <i>SmartMat</i> ,	22.8	8