Jun Yang

List of Publications by Citations

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	An effective strategy for small-sized and highly-dispersed palladium nanoparticles supported on graphene with excellent performance for formic acid oxidation. *Journal of Materials Chemistry*, **2011**, 21, 3384		220
101	Phase transfer and its applications in nanotechnology. *Chemical Society Reviews*, **2011**, 40, 1672-96	58.5	193
100	Nanocomposites of Ag2S and noble metals. *Angewandte Chemie - International Edition*, **2011**, 50, 4637-43	16.4	178
99	Bimetallic CuPd alloy multipods and their highly electrocatalytic performance for formic acid oxidation and oxygen reduction. *Journal of Materials Chemistry A*, **2017**, 5, 4421-4429	13	148
98	Hollow and cage-bell structured nanomaterials of noble metals. *Journal of the American Chemical Society*, **2012**, 134, 11602-10	16.4	141
97	Morphology and lateral strain control of Pt nanoparticles via core-shell construction using alloy AgPd core toward oxygen reduction reaction. *ACS Nano*, **2012**, 6, 9373-82	16.7	139
96	Size and composition tunable AgAu alloy nanoparticles by replacement reactions. *Nanotechnology*, **2007**, 18, 245605	3.4	114
95	Core-shell Au@Pd nanoparticles with enhanced catalytic activity for oxygen reduction reaction via core-shell Au@Ag/Pd constructions. *Scientific Reports*, **2015**, 5, 11949	4.9	91
94	A selective electrocatalyst-based direct methanol fuel cell operated at high concentrations of methanol. *Science Advances*, **2017**, 3, e1700580	14.3	88
93	Alloy CuPt nanoframes through the structure evolution in Cu-Pt nanoparticles with a core-shell construction. *Scientific Reports*, **2014**, 4, 6414	4.9	86
92	Nanocatalysts for Electrocatalytic Oxidation of Ethanol. *ChemSusChem*, **2019**, 12, 2117-2132	8.3	83
91	Noble metal-based composite nanomaterials fabricated via solution-based approaches. *Journal of Materials Chemistry A*, **2015**, 3, 3182-3223	13	82
90	Diffusion of gold from the inner core to the surface of Ag(2)S nanocrystals. *Journal of the American Chemical Society*, **2010**, 132, 2114-5	16.4	70
89	Hard-Sphere Random Close-Packed Au Cd (TBBT) Nanoclusters with a Faradaic Efficiency of Up to 96 % for Electrocatalytic CO Reduction to CO. *Angewandte Chemie - International Edition*, **2020**, 59, 3073-3077	16.4	69
88	Stellated Ag-Pt bimetallic nanoparticles: an effective platform for catalytic activity tuning. *Scientific Reports*, **2014**, 4, 3969	4.9	63
87	Highly Reactive Se Precursor for the Phosphine-Free Synthesis of Metal Selenide Nanocrystals. *Chemistry of Materials*, **2010**, 22, 5672-5677	9.6	62
86	Effects of cerium incorporation on the catalytic oxidation of benzene over flame-made perovskite La1CexMnO3 catalysts. *Particuology*, **2015**, 19, 60-68	2.8	53

85	Gold-catalyzed formation of core–shell gold–palladium nanoparticles with palladium shells up to three atomic layers. *Journal of Materials Chemistry A*, **2016**, 4, 3813-3821	13	51
84	Heterogeneous Au-Pt nanostructures with enhanced catalytic activity toward oxygen reduction. *Dalton Transactions*, **2012**, 41, 2898-903	4.3	51
83	Enhanced non-inflammasome mediated immune responses by mannosylated zwitterionic-based cationic liposomes for HIV DNA vaccines. *Biomaterials*, **2016**, 85, 1-17	15.6	49
82	Tailoring the Selectivity of Bimetallic Copper–Palladium Nanoalloys for Electrocatalytic Reduction of CO2 to CO. *ACS Applied Energy Materials*, **2018**, 1, 883-890	6.1	47
81	Platinum-based heterogeneous nanomaterials via wet-chemistry approaches toward electrocatalytic applications. *Advances in Colloid and Interface Science*, **2016**, 230, 29-53	14.3	44
80	Highly catalytic hollow palladium nanoparticles derived from silver@silver–palladium core–shell nanostructures for the oxidation of formic acid. *Journal of Power Sources*, **2014**, 272, 152-159	8.9	44
79	Mechanistic Study on the Bis(p-sulfonatophenyl)phenylphosphine Synthesis of Monometallic Pt Hollow Nanoboxes Using Ag*–Pt Core–Shell Nanocubes as Sacrificial Templates. *Journal of Physical Chemistry C*, **2007**, 111, 14084-14090	3.8	44
78	Pt–CuS heterodimers by sulfidation of CuPt alloy nanoparticles and their selective catalytic activity toward methanol oxidation. *Journal of Materials Chemistry A*, **2013**, 1, 11880	13	43
77	A seed-mediated approach to the morphology-controlled synthesis of bimetallic copper–platinum alloy nanoparticles with enhanced electrocatalytic performance for the methanol oxidation reaction. *Journal of Power Sources*, **2015**, 286, 488-494	8.9	39
76	Bimetallic Ag–Hollow Pt heterodimers via inside-out migration of Ag in core–shell Ag–Pt nanoparticles at elevated temperature. *Journal of Materials Chemistry A*, **2014**, 2, 7075-7081	13	39
75	A core-shell templated approach to the nanocomposites of silver sulfide and noble metal nanoparticles with hollow/cage-bell structures. *Nanoscale*, **2013**, 5, 6901-7	7.7	37
74	Enhancing the electrocatalytic property of hollow structured platinum nanoparticles for methanol oxidation through a hybrid construction. *Scientific Reports*, **2014**, 4, 6204	4.9	35
73	Recent advances in noble metal-based nanocomposites for electrochemical reactions. *Materials Today Energy*, **2017**, 6, 115-127	7	34
72	A Universal and Cost-Effective Approach to the Synthesis of Carbon-Supported Noble Metal Nanoparticles with Hollow Interiors. *Industrial & Engineering Chemistry Research*, **2014**, 53, 5925-5931	3.9	33
71	Core-shell gold-nickel nanostructures as highly selective and stable nonenzymatic glucose sensor for fermentation process. *Scientific Reports*, **2020**, 10, 1365	4.9	28
70	Selective electrocatalysts toward a prototype of the membraneless direct methanol fuel cell. *Scientific Reports*, **2014**, 4, 3813	4.9	25
69	Reduced graphene oxide modified platinum catalysts for the oxidation of volatile organic compounds. *Catalysis Today*, **2016**, 278, 203-208	5.3	25
68	A universal approach to the synthesis of nanodendrites of noble metals. *Nanoscale*, **2014**, 6, 6173-9	7.7	25

67	Core-shell Au-Pd nanoparticles as cathode catalysts for microbial fuel cell applications. *Scientific Reports*, **2016**, 6, 35252	4.9	24
66	Effect of Reduction Treatment on Structural Properties of TiO2 Supported Pt Nanoparticles and Their Catalytic Activity for Benzene Oxidation. *Catalysis Letters*, **2014**, 144, 1080-1087	2.8	24
65	Enhancing the methanol tolerance of platinum nanoparticles for the cathode reaction of direct methanol fuel cells through a geometric design. *Scientific Reports*, **2015**, 5, 16219	4.9	24
64	In Situ Anchoring of Zeolite Imidazole Framework-Derived Co, N-Doped Porous Carbon on Multiwalled Carbon Nanotubes toward Efficient Electrocatalytic Oxygen Reduction. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 478-485	8.3	24
63	Unconventional Alloys Confined in Nanoparticles: Building Blocks for New Matter. *Matter*, **2020**, 3, 1646-1663	16.3	23
62	Interfacial Engineering-Triggered Bifunctionality of CoS /MoS Nanocubes/Nanosheet Arrays for High-Efficiency Overall Water Splitting. *ChemSusChem*, **2021**, 14, 699-708	8.3	23
61	Surface composition dominates the electrocatalytic reduction of CO2 on ultrafine CuPd nanoalloys **2020**, 2, 443-451		22
60	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. *Applied Catalysis B: Environmental*, **2021**, 295, 120281	21.8	22
59	Emerging nanostructured materials for the catalytic removal of volatile organic compounds. *Nanotechnology Reviews*, **2016**, 5,	6.3	21
58	Pt-Containing Ag2S-Noble Metal Nanocomposites as Highly Active Electrocatalysts for the Oxidation of Formic Acid. *Nano-Micro Letters*, **2014**, 6, 252-257	19.5	21
57	Interfacial Pd-O-Ce Linkage Enhancement Boosting Formic Acid Electrooxidation. *ACS Applied Materials & Interfaces*, **2020**, 12, 47065-47075	9.5	21
56	Uniformly dispersed platinum-cobalt alloy nanoparticles with stable compositions on carbon substrates for methanol oxidation reaction. *Scientific Reports*, **2017**, 7, 11421	4.9	20
55	One-pot synthesis of noble metal nanoparticles with a core□shell construction. *CrystEngComm*, **2015**, 17, 1826-1832	3.3	20
54	Fine platinum nanoparticles supported on polyindole-derived nitrogen-doped carbon nanotubes for efficiently catalyzing methanol electrooxidation. *Applied Surface Science*, **2020**, 501, 144260	6.7	19
53	Replacement reaction-based synthesis of supported palladium catalysts with atomic dispersion for catalytic removal of benzene. *Journal of Materials Chemistry A*, **2018**, 6, 17032-17039	13	18
52	Efficient overall water splitting catalyzed by robust FeNi3N nanoparticles with hollow interiors. *Journal of Materials Chemistry A*, **2021**, 9, 7750-7758	13	18
51	Heterogeneous nanocomposites of silver selenide and hollow platinum nanoparticles toward methanol oxidation reaction. *Journal of Power Sources*, **2016**, 327, 432-437	8.9	17
50	Cage-bell structured Au□Pt nanomaterials with enhanced electrocatalytic activity toward oxygen reduction. *International Journal of Hydrogen Energy*, **2012**, 37, 13191-13199	6.7	17

49	A Molecular-Based Design of RGO/TiO2-PAM Composite Flocculant with Photocatalytic Self-Degrading Characteristics and the Application of the Oil Sand Tailings Flocculant. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 6758-6768	8.3	15
48	Fine silver sulfide–platinum nanocomposites supported on carbon substrates for the methanol oxidation reaction. *RSC Advances*, **2017**, 7, 3455-3460	3.7	14
47	Template-free synthesis of platinum hollow-opened structures in deep-eutectic solvents and their enhanced performance for methanol electrooxidation. *Electrochimica Acta*, **2020**, 337, 135742	6.7	14
46	Ternary synergistic catalyst system of Pt–Cu–Mo2C with high activity and durability for alcohol oxidation. *Materials Today Physics*, **2021**, 17, 100357	8	14
45	Fine platinum nanoparticles supported on a porous ceramic membrane as efficient catalysts for the removal of benzene. *Scientific Reports*, **2017**, 7, 16589	4.9	13
44	Encapsulation of Janus-structured Ni/Ni2P nanoparticles within hierarchical wrinkled N-doped carbon nanofibers: Interface engineering induces high-efficiency water oxidation. *Applied Catalysis B: Environmental*, **2021**, 298, 120578	21.8	13
43	Rough-surfaced bimetallic copper–palladium alloy multicubes as highly bifunctional electrocatalysts for formic acid oxidation and oxygen reduction. *Green Energy and Environment*, **2019**, 4, 254-263	5.7	12
42	Fabrication of Hollow and Yolk–Shell Structured α-Fe2O3 Nanoparticles with Versatile Configurations. *Industrial & Engineering Chemistry Research*, **2013**, 52, 1303-1308	3.9	12
41	Nanocomposites of Ag2S and Noble Metals. *Angewandte Chemie*, **2011**, 123, 4733-4739	3.6	12
40	Heterogeneous nanocomposites consisting of Pt3Co alloy particles and CoP2 nanorods towards high-efficiency methanol electro-oxidation. *SmartMat*, **2021**, 2, 234-245	22.8	11
39	Research on self-degradation of RGO/TiO2-P(AM-DAC) organic-inorganic composite flocculant prepared by surface initiated polymerization and its flocculation mechanism of oil sand tailings. *European Polymer Journal*, **2019**, 120, 109165	5.2	10
38	Nanoscale noble metals with a hollow interior formed through inside-out diffusion of silver in solid-state core-shell nanoparticles. *Nano Research*, **2015**, 8, 512-522	10	10
37	Enhanced electrocatalytic activity of Pt-nanostructures prepared by electrodeposition using poly(vinyl pyrrolidone) as a shape-control agent. *Electrochimica Acta*, **2012**, 83, 383-386	6.7	10
36	Nanodendritic Platinum Supported on α-Alumina for Complete Benzene Oxidation. *Particle and Particle Systems Characterization*, **2016**, 33, 620-627	3.1	10
35	Cage-bell Pt-Pd nanostructures with enhanced catalytic properties and superior methanol tolerance for oxygen reduction reaction. *Scientific Reports*, **2016**, 6, 24600	4.9	10
34	PEDOT functionalized ZIF-67 derived Co-N-S triple-doped porous carbon for high-efficiency oxygen reduction. *Applied Surface Science*, **2021**, 535, 147659	6.7	10
33	Formation of composite dimers consisting of Ag2S and hollow structured Pd nanoparticles. *CrystEngComm*, **2015**, 17, 6155-6162	3.3	9
32	Combining the core-shell construction with an alloying effect for high efficiency ethanol electrooxidation. *Cell Reports Physical Science*, **2021**, 2, 100357	6.1	9

31	immobilization of Fe/FeC/FeO hollow hetero-nanoparticles onto nitrogen-doped carbon nanotubes towards high-efficiency electrocatalytic oxygen reduction. *Nanoscale*, **2021**, 13, 5400-5409	7.7	9
30	Interfacial engineering-induced electronic regulation drastically enhances the electrocatalytic oxygen evolution: Immobilization of Janus-structured NiS/NiO nanoparticles onto carbon nanotubes/nanofiber-integrated superstructures. *Chemical Engineering Journal*, **2022**, 428, 131094	14.7	9
29	Electrochemical hydrogen evolution reaction efficiently catalyzed by Ru□N coupling in defect-rich Ru/g-C3N4 nanosheets. *Journal of Materials Chemistry A*, **2021**, 9, 15019-15026	13	9
28	Intracellular accumulation and immunological responses of lipid modified magnetic iron nanoparticles in mouse antigen processing cells. *Biomaterials Science*, **2017**, 5, 1603-1611	7.4	8
27	Atomically Dispersed Mo Sites Anchored on Multichannel Carbon Nanofibers toward Superior Electrocatalytic Hydrogen Evolution. *ACS Nano*, **2021**,	16.7	8
26	In situ establishment of Co/MoS2 heterostructures onto inverse opal-structured N,S-doped carbon hollow nanospheres: Interfacial and architectural dual engineering for efficient hydrogen evolution reaction. *SmartMat*,	22.8	8
25	Sulfonated cobalt phthalocyanine-derived Co-N-S tridoped carbon nanotubes as platinum catalyst supports for highly efficient methanol electrooxidation. *Applied Surface Science*, **2020**, 511, 145519	6.7	7
24	Preparation of RGO/TiO/Ag Aerogel and Its Photodegradation Performance in Gas Phase Formaldehyde. *Scientific Reports*, **2019**, 9, 16314	4.9	7
23	MOF-assisted synthesis of Ni, Co, Zn, and N multidoped porous carbon as highly efficient oxygen reduction electrocatalysts in Zn□ir batteries. *Materials Today Energy*, **2021**, 19, 100579	7	7
22	Ag facilitated shape control of transition-metal nanoparticles. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2011**, 385, 85-90	5.1	6
21	Worm-like Pt nanoparticles anchored on graphene with S, N co-doping and Fe3O4 functionalization for boosting the electrooxidation of methanol. *International Journal of Hydrogen Energy*, **2020**, 45, 22929-22937	6.7	6
20	Encapsulation of NiCo nanoparticles into foam-like porous N,P-codoped carbon nanosheets: Electronic and architectural dual regulations toward high-efficiency water electrolysis. *Chemical Engineering Journal*, **2021**, 410, 128325	14.7	6
19	A perspective of chalcogenide semiconductor-noble metal nanocomposites through structural transformations. *Nano Materials Science*, **2019**, 1, 184-197	10.2	5
18	Pt-IrO2 nanorod array electrode for oxygen evolution in PEM water electrolysis cell. *Asia-Pacific Journal of Chemical Engineering*, **2013**, 8, 271-277	1.3	5
17	Ultrafine Pt Nanoclusters for the Direct Methanol Fuel Cell Reactions. *Journal of Cluster Science*, **2011**, 22, 173-181	3	5
16	Manipulation of Mott-Schottky Ni/CeO Heterojunctions into N-Doped Carbon Nanofibers for High-Efficiency Electrochemical Water Splitting.. *Small*, **2022**, e2106592	11	5
15	A dual ligand coordination strategy for synthesizing drum-like Co, N co-doped porous carbon electrocatalyst towards superior oxygen reduction and zinc-air batteries. *International Journal of Hydrogen Energy*, **2021**,	6.7	5
14	Bidirectional controlling synthesis of branched PdCu nanoalloys for efficient and robust formic acid oxidation electrocatalysis. *Journal of Colloid and Interface Science*, **2021**, 600, 503-512	9.3	5

13	Immobilizing Ultrafine PtNi Nanoparticles within Graphitic Carbon Nanosheets toward High-Performance Hydrogenation Reaction. *ACS Omega*, **2018**, 3, 16436-16442	3.9	4
12	Core-shell Ag@Pt nanoparticles: A versatile platform for the synthesis of heterogeneous nanostructures towards catalyzing electrochemical reactions. *Chinese Chemical Letters*, **2021**, 32, 3288-3288	8.1	3
11	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. *Chemistry - A European Journal*, **2021**, 27, 9850-9857	4.8	3
10	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. *Journal of Energy Chemistry*, **2021**, 63, 585-585	12	3
9	Understanding the formation of nanocomposites consisting of silver sulfide and platinum hollow nanostructures. *Journal of Solid State Chemistry*, **2018**, 265, 387-392	3.3	2
8	Core-shell Au@PtIr nanowires with dendritic alloy shells as efficient bifunctional catalysts toward methanol oxidation and hydrogen evolution reactions. *International Journal of Hydrogen Energy*, **2021**, 46, 36771-36771	6.7	2
7	An Introduction to Noble Metal-Based Composite Nanomaterials **2019**, 1-33		1
6	Nanocomposites Consisting of Chalcogenide Semiconductors and Other Noble Metals **2019**, 149-192		1
5	Pt-Containing Ag2S-Noble Metal Nanocomposites as Highly Active Electrocatalysts for the Oxidation of Formic Acid **2014**, 6, 252		1
4	Electronic and lattice strain dual tailoring for boosting Pd electrocatalysis in oxygen reduction reaction. *IScience*, **2021**, 24, 103332	6.1	1
3	High recycling Fe3O4-CdTe nanocomposites for the detection of organophosphorothioate pesticide chlorpyrifos. *Green Energy and Environment*, **2020**, 7, 229-229	5.7	0
2	Nanocomposites Consisting of Metal Oxides and Noble Metals **2019**, 301-381		
1	Suppressing oxygen vacancies on the surface of Li-rich material as a high-energy cathode via high oxygen affinity Ca0.95Bi0.05MnO3 coating. *Electrochimica Acta*, **2022**, 421, 140465	6.7	