Yuye J Tong

List of Publications by Year in Descending Order

102 papers	2,988 citations	30 h-index	51 g-index
106 ext. papers	3,210 ext. citations	6.7 avg, IF	5.26 L-index

#	Paper	IF	Citations
102	Surfactant-Free One-Pot Synthesis of Homogeneous Trimetallic PtNiCu Nanoparticles with Size Control by Using Glycine. *Langmuir*, **2020**, 36, 5902-5907	4	6
101	A versatile and robust surface-poison-resisting Scanning Amperometric Proton Microscopy. *Journal of Electroanalytical Chemistry*, **2020**, 875, 113918	4.1	1
100	A self-promoting growth of Na microstructures. *Nature Nanotechnology*, **2020**, 15, 1-2	28.7	1
99	Site-Dependent Spin Delocalization and Evidence of Ferrimagnetism in Atomically Precise Au(SR) Clusters as Seen by Solution C NMR Spectroscopy. *Journal of Physical Chemistry A*, **2020**, 124, 7464-7469	2.8	2
98	Origin of the Drastic Current Decay during Potentiostatic Alkaline Methanol Oxidation. *ACS Applied Materials & Interfaces*, **2020**, 12, 43535-43542	9.5	4
97	Ternary CoPtAu Nanoparticles as a General Catalyst for Highly Efficient Electro-oxidation of Liquid Fuels. *Angewandte Chemie - International Edition*, **2019**, 58, 11527-11533	16.4	44
96	Ternary CoPtAu Nanoparticles as a General Catalyst for Highly Efficient Electro-oxidation of Liquid Fuels. *Angewandte Chemie*, **2019**, 131, 11651-11657	3.6	14
95	Template-free cyclic hexavanadate: Synthesis, characterization, solid-state structure, and solution-state dynamics. *Polyhedron*, **2019**, 169, 266-277	2.7	2
94	Dual-IR Window/Electrode Operando Attenuated Total Reflection-IR Absorption Spectroscopy for Battery Research. *Batteries and Supercaps*, **2019**, 2, 60-65	5.6	2
93	Effect of surface-bound sulfide on oxygen reduction reaction on Pt: Breaking the scaling relationship and mechanistic insights. *Journal of Chemical Physics*, **2019**, 150, 041728	3.9	10
92	In Situ Stripline Electrochemical NMR for Batteries. *ChemElectroChem*, **2018**, 5, 2336-2340	4.3	9
91	An in-situ electrochemical IR investigation of solution CO electro-oxidation on a polycrystalline Au surface in an alkaline electrolyte: Identification of active reaction intermediates. *Journal of Electroanalytical Chemistry*, **2017**, 800, 39-45	4.1	8
90	Electrochemical Energy Generation and Storage as Seen by In-Situ NMR **2017**, 331-363		2
89	In situ electrochemical nuclear magnetic resonance spectroscopy for electrocatalysis: Challenges and prospects. *Current Opinion in Electrochemistry*, **2017**, 4, 60-68	7.2	13
88	Methanol and Ethanol Electrooxidation on PtRu and PtNiCu as Studied by High-Resolution In Situ Electrochemical NMR Spectroscopy with Interdigitated Electrodes. *Electrocatalysis*, **2017**, 8, 95-102	2.7	6
87	Mechanistic Insight into Sulfide-Enhanced Oxygen Reduction Reaction Activity and Stability of Commercial Pt Black: An in Situ Raman Spectroscopic Study. *ACS Catalysis*, **2016**, 6, 5000-5004	13.1	20
86	Mechanistic Insights into Electro-Oxidation of Solution CO on the Polycrystalline Gold Surface as Seen by in Situ IR Spectroscopy. *Journal of Physical Chemistry C*, **2016**, 120, 16132-16139	3.8	7

85	Interdigitated metal electrodes for high-resolution in situ electrochemical NMR. *Journal of Electroanalytical Chemistry*, **2016**, 769, 1-4	4.1	8
84	Dual-Electrode In Situ Infrared Spectroscopy for Fuel Cells. *Journal of the Electrochemical Society*, **2016**, 163, H3038-H3042	3.9	6
83	Combined EC-NMR and In Situ FTIR Spectroscopic Studies of Glycerol Electrooxidation on Pt/C, PtRu/C, and PtRh/C. *ACS Catalysis*, **2016**, 6, 7686-7695	13.1	67
82	Integrated Studies of Au@Pt and Ru@Pt Core-Shell Nanoparticles by In Situ Electrochemical NMR, ATR-SEIRAS, and SERS. *Nanostructure Science and Technology*, **2016**, 225-251	0.9	
81	Measuring level alignment at the metal-molecule interface by in situ electrochemical (13) C NMR. *ChemPhysChem*, **2015**, 16, 747-51	3.2	3
80	Irrelevance of Carbon Monoxide Poisoning in the Methanol Oxidation Reaction on a PtRu Electrocatalyst. *Angewandte Chemie - International Edition*, **2015**, 54, 9394-8	16.4	106
79	Irrelevance of Carbon Monoxide Poisoning in the Methanol Oxidation Reaction on a PtRu Electrocatalyst. *Angewandte Chemie*, **2015**, 127, 9526-9530	3.6	20
78	In Situ FT-IR Investigation of Methanol and CO Electrooxidation on Cubic and Octahedral/Tetrahedral Pt Nanoparticles Having Residual PVP. *Electrocatalysis*, **2014**, 5, 248-255	2.7	9
77	Electrochemical and in situ ATR-SEIRAS investigations of methanol and CO electro-oxidation on PVP-free cubic and octahedral/tetrahedral Pt nanoparticles. *RSC Advances*, **2014**, 4, 21284-21293	3.7	16
76	On the chemistry of activation of a commercial carbon-supported PtRu electrocatalyst for the methanol oxidation reaction. *Chemical Communications*, **2014**, 50, 12963-5	5.8	14
75	Sulfide‐Adsorption-Enhanced Oxygen Reduction Reaction on Carbon-Supported Pt Electrocatalyst. *Electrocatalysis*, **2013**, 4, 117-122	2.7	14
74	Enhanced CO monolayer electro-oxidation reaction on sulfide-adsorbed Pt nanoparticles: A combined electrochemical and in situ ATR-SEIRAS spectroscopic study. *Catalysis Today*, **2013**, 202, 175-182	5.3	10
73	Electrochemical impedance spectroscopic measurement of potential of zero charge of octanethiolate-protected Au and Pd nanoparticles. *Journal of Electroanalytical Chemistry*, **2013**, 688, 349-353	4.1	3
72	Application of the condensed Fukui function to predict reactivity in core‐shell transition metal nanoparticles. *Electrochimica Acta*, **2013**, 101, 334-340	6.7	25
71	Unconventional promoters of catalytic activity in electrocatalysis. *Chemical Society Reviews*, **2012**, 41, 8195-209	58.5	52
70	Different mechanisms govern the two-phase Brust-Schiffrin dialkylditelluride syntheses of Ag and Au nanoparticles. *Journal of the American Chemical Society*, **2012**, 134, 1990-2	16.4	27
69	Inverse-micelle-encapsulated water-enabled bond breaking of dialkyl diselenide/disulfide: a critical step for synthesizing high-quality gold nanoparticles. *Journal of the American Chemical Society*, **2012**, 134, 17991-6	16.4	19
68	Mechanistic Insights on Sulfide-Adsorption Enhanced Activity of Methanol Electro-Oxidation on Pt Nanoparticles. *ACS Catalysis*, **2012**, 2, 168-174	13.1	17

67	An in situ attenuated total reflection-surface enhanced infrared absorption spectroscopic study of enhanced methanol electro-oxidation activity on carbon-supported Pt nanoparticles by poly(vinylpyrrolidone) of different molecular weights. *Electrochimica Acta*, **2012**, 82, 543-549	6.7	11
66	Synthesis of Au and Ag nanoparticles with alkylselenocyanates. *RSC Advances*, **2012**, 2, 7396	3.7	2
65	Spatially Resolved Electronic Alterations As Seen by in Situ195Pt and 13CO NMR in and Core‐Shell Nanoparticles. *Journal of Physical Chemistry C*, **2012**, 116, 26480-26486	3.8	15
64	Mechanistic insights on one-phase vs. two-phase Brust-Schiffrin method synthesis of Au nanoparticles with dioctyl-diselenides. *Chemical Communications*, **2012**, 48, 362-4	5.8	28
63	Origin of the current peak of negative scan in the cyclic voltammetry of methanol electro-oxidation on Pt-based electrocatalysts: a revisit to the current ratio criterion. *Journal of Materials Chemistry*, **2012**, 22, 5205		194
62	Electroless deposition of ultrathin Au film for surface enhanced in situ spectroelectrochemisrty and reaction-driven surface reconstruction for oxygen reduction reaction. *Catalysis Today*, **2012**, 182, 46-53	5.3	20
61	An in situ SERS investigation of the chemical states of sulfur species adsorbed onto Pt from different sulfur sources. *Journal of Electroanalytical Chemistry*, **2011**, 662, 52-56	4.1	16
60	Mechanistic insights into the Brust-Schiffrin two-phase synthesis of organo-chalcogenate-protected metal nanoparticles. *Journal of the American Chemical Society*, **2011**, 133, 2092-5	16.4	160
59	Identification of the Most Active Sites and Surface Water Species: A Comparative Study of CO and Methanol Oxidation Reactions on Core‐Shell (M = Ru, Au) Nanoparticles by in Situ IR Spectroscopy. *Journal of Physical Chemistry C*, **2011**, 115, 8735-8743	3.8	29
58	Polyoxometalate-stabilized Pt nanoparticles and their electrocatalytic activities. *Physical Chemistry Chemical Physics*, **2011**, 13, 7433-8	3.6	22
57	Size-Dependent Methanol Electro-oxidation Activity of Pt Nanoparticles with Different Shapes. *Electrocatalysis*, **2011**, 2, 75-81	2.7	14
56	Chemical state of adsorbed sulfur on Pt nanoparticles. *ChemPhysChem*, **2011**, 12, 747-52	3.2	11
55	Inside Cover: Chemical State of Adsorbed Sulfur on Pt Nanoparticles (ChemPhysChem 4/2011). *ChemPhysChem*, **2011**, 12, 722-722	3.2	3
54	Evaluation of methods to predict reactivity of gold nanoparticles. *Physical Chemistry Chemical Physics*, **2011**, 13, 12858-64	3.6	7
53	Capping polymer-enhanced electrocatalytic activity on Pt nanoparticles: a combined electrochemical and in situ IR spectroelectrochemical study. *Physical Chemistry Chemical Physics*, **2011**, 13, 7467-74	3.6	31
52	Electrocatalytic properties of Au@Pt nanoparticles: effects of Pt shell packing density and Au core size. *Physical Chemistry Chemical Physics*, **2011**, 13, 11568-74	3.6	30
51	Identification of a source of size polydispersity and its solution in Brust-Schiffrin metal nanoparticle synthesis. *Chemical Communications*, **2011**, 47, 6033-5	5.8	30
50	Critical role of water and the structure of inverse micelles in the Brust-Schiffrin synthesis of metal nanoparticles. *Langmuir*, **2011**, 27, 7366-70	4	50

49	Spectroscopic evidence of a bidentate-binding of meso-2,3-dimercaptosuccinic acid on silver nanoclusters. *Chemical Physics Letters*, **2011**, 509, 148-151	2.5	12
48	A volcano curve: optimizing methanol electro-oxidation on Pt-decorated Ru nanoparticles. *Physical Chemistry Chemical Physics*, **2009**, 11, 8231-9	3.6	27
47	Surface attached manganese-oxo clusters as potential contrast agents. *Chemical Communications*, **2009**, 788-90	5.8	21
46	A comparative in situ 195Pt electrochemical-NMR investigation of PtRu nanoparticles supported on diverse carbon nanomaterials. *Faraday Discussions*, **2008**, 140, 139-53; discussion 185-207	3.6	5
45	Room-temperature and low-ordered, amphotropic-lyotropic ionic liquid crystal phases induced by alcohols in phosphonium halides. *Langmuir*, **2008**, 24, 9843-54	4	24
44	Alkanetelluroxide-protected gold nanoparticles. *Langmuir*, **2008**, 24, 7048-53	4	30
43	Spatially resolved 195Pt NMR of carbon-supported PtRu electrocatalysts: local electronic properties, elemental composition, and catalytic activity. *Journal of Chemical Physics*, **2008**, 128, 052311	3.9	5
42	Shape and size stability of Pt nanoparticles for MeOH electro-oxidation. *Electrochimica Acta*, **2008**, 53, 6135-6142	6.7	47
41	An unexpected enhancement in methanol electro-oxidation on an ensemble of Pt(111) nanofacets: a case of nanoscale single crystal ensemble electrocatalysis. *Physical Chemistry Chemical Physics*, **2008**, 10, 3712-21	3.6	47
40	Probing spatially-resolved Pt distribution in PtRu nanoparticles with 195Pt EC-NMR. *Journal of the American Chemical Society*, **2007**, 129, 13806-7	16.4	13
39	Particle Size Limit for Concomitant Tuning of Size and Shape of Platinum Nanoparticles. *Journal of Cluster Science*, **2007**, 18, 773-780	3	8
38	Interactions between Keggin-Type Lacunary Polyoxometalates and Ag Nanoparticles: A Surface-Enhanced Raman Scattering Spectroscopic Investigation. *Journal of Cluster Science*, **2006**, 17, 349-359	3	27
37	A coverage-dependent study of pt spontaneously deposited onto Au and Ru surfaces: direct experimental evidence of the ensemble effect for methanol electro-oxidation on Pt. *Journal of Physical Chemistry B*, **2005**, 109, 17775-80	3.4	109
36	Local quantum size effect as seen by room-temperature 195Pt NMR in octanethiol-protected Pt nanoparticles. *Chemical Physics Letters*, **2005**, 406, 137-142	2.5	7
35	A Fast and Convenient One-Pot Synthesis of Dioctyldiselenide at Ambient Temperature and Atmosphere. *Synlett*, **2005**, 2005, 1618-1620	2.2	3
34	Charge Dependence of Surface Plasma Resonance on 2 nm Octanethiol-Protected Au Nanoparticles: Evidence of a Free-Electron System. *Journal of Physical Chemistry B*, **2004**, 108, 19896-19900	3.4	44
33	Observation of selenium-77 nuclear magnetic resonance in octaneselenol-protected gold nanoparticles. *Journal of the American Chemical Society*, **2004**, 126, 8112-3	16.4	30
32	13C NMR and infrared evidence of a dioctyl-disulfide structure on octanethiol-protected palladium nanoparticle surfaces. *Journal of the American Chemical Society*, **2004**, 126, 10053-8	16.4	40

31	Electrochemical and NMR characterization of octanethiol-protected Au nanoparticles. *Journal of Electroanalytical Chemistry*, **2003**, 554-555, 127-132	4.1	30
30	13C NMR spectroscopy of 13C1-labeled octanethiol-protected Au nanoparticles: shifts, relaxations, and particle-size effect. *Journal of the American Chemical Society*, **2003**, 125, 18-9	16.4	44
29	Nanostructured electrode surfaces studied by electrochemical NMR. *Journal of Electroanalytical Chemistry*, **2002**, 524-525, 157-167	4.1	27
28	NMR evidence of a spatially resolved oscillation in the Ef-LDOS in a nanoscale platinum electrocatalyst. *Chemical Physics Letters*, **2002**, 361, 183-188	2.5	5
27	Advanced 13C Nuclear Magnetic Resonance Investigation of Metal-Ligand Interactions in Monolayer-Protected Gold Nanoparticles: NMR Shifts and Relaxations. *Materials Research Society Symposia Proceedings*, **2002**, 738, 821		
26	NMR of Electrocatalysts. *Journal of Physical Chemistry B*, **2002**, 106, 2434-2446	3.4	50
25	Infrared Spectral Comparison of Electrochemical Carbon Monoxide Adlayers Formed by Direct Chemisorption and Methanol Dissociation on Carbon-Supported Platinum Nanoparticles. *Langmuir*, **2002**, 18, 3233-3240	4	43
24	An NMR investigation of CO tolerance in a Pt/Ru fuel cell catalyst. *Journal of the American Chemical Society*, **2002**, 124, 468-73	16.4	311
23	Diffusion on a nanoparticle surface as revealed by electrochemical NMR. *Faraday Discussions*, **2002**, 323-30; discussion 331-64	3.6	12
22	Infrared reflection–absorption properties of platinum nanoparticle films on metal electrode substrates: control of anomalous optical effects. *Electrochemistry Communications*, **2001**, 3, 509-513	5.1	54
21	Methanol Electrooxidation on Platinum/Ruthenium Nanoparticle Catalysts. *Journal of Catalysis*, **2001**, 203, 1-6	7.3	175
20	Electronic Properties at a Metal-Solution Interface as Viewed by Solid-State NMR. *ACS Symposium Series*, **2001**, 26-39	0.4	2
19	Characterization of protonic sites in H3PW12O40 and Cs1.9H1.1PW12O40: a solid-state 1H,2H,31P MAS-NMR and inelastic neutron scattering study on samples prepared under standard reaction conditions. *Applied Catalysis A: General*, **2000**, 194-195, 109-122	5.1	60
18	195Pt NMR of Platinum Electrocatalysts: Friedel–Heine Invariance and Correlations between Platinum Knight Shifts, Healing Length, and Adsorbate Electronegativity. *Journal of the American Chemical Society*, **2000**, 122, 11921-11924	16.4	33
17	In Situ Infrared Study of Carbon Monoxide Adsorbed onto Commercial Fuel-Cell-Grade Carbon-Supported Platinum Nanoparticles: Correlation with13C NMR Results. *Journal of Physical Chemistry B*, **2000**, 104, 5803-5807	3.4	67
16	Cyclic voltammetry and 195Pt nuclear magnetic resonance characterization of graphite-supported commercial fuel cell grade platinum electrocatalysts. *Electrochimica Acta*, **1998**, 43, 2825-2830	6.7	35
15	Exploring electrochemical interfaces with solid-state NMR. *Analytical Chemistry*, **1998**, 70, 518A-527A	7.8	44
14	Supported Aqueous-Phase Palladium Catalysts for the Reaction of Allylic Substitution: Toward an Understanding of the Catalytic System. *Organometallics*, **1998**, 17, 78-89	3.8	47

13	Tailoring the Frontier Orbitals at the Surfaces of Platinum Catalysts. *Journal of Physical Chemistry B*, **1997**, 101, 10155-10158	3.4	10
12	Correlation between the Stretching Frequency of Carbon Monoxide Adsorbed and the Fermi Level Local Density of States at Surfaces of Platinum Catalysts. *Journal of the American Chemical Society*, **1997**, 119, 3929-3934	16.4	17
11	195Pt NMR of Polymer-Protected Pt/Pd Bimetallic Catalysts. *The Journal of Physical Chemistry*, **1996**, 100, 730-733		43
10	Inadequacy of a simple Curie–Weiss approximation for nuclear magnetic resonance in paramagnetic transition-metal oxides. *Chemical Communications*, **1996**, 2317-2317	5.8	
9	Nuclear Spin-Echo Fourier-Transform Mapping Spectroscopy for Broad NMR Lines in Solids. *Journal of Magnetic Resonance Series A*, **1996**, 119, 22-28		49
8	Indications from 195Pt NMR for a temperature-dependent metal-nonmetal transition of small platinum particles in zeolites. *Physical Review B*, **1995**, 52, 8407-8413	3.3	16
7	Local metal to non-metal transition on oxygen-covered platinum particles from195Pt nuclear magnetic resonance. *Journal of Physics Condensed Matter*, **1995**, 7, 2447-2459	1.8	13
6	Hydrogen Adsorption on Platinum Particles Studied by 195Pt NMR. *The Journal of Physical Chemistry*, **1994**, 98, 11011-11014		13
5	195Pt NMR observation of local density of states enhancement on alkali-promoted Pt catalyst surfaces. *Journal of Physics Condensed Matter*, **1994**, 6, L533-L538	1.8	14
4	Electron microscopy and 195Pt nuclear magnetic resonance of platinum particles in a zeolite-Y matrix. *Surface Science*, **1993**, 292, 276-288	1.8	12
3	Hydration process of beta-dicalcium silicate followed by MAS and CP/MAS nuclear magnetic resonance. *Cement and Concrete Research*, **1991**, 21, 355-358	10.3	8
2	Comparison between the hydration processes of tricalcium silicate and beta-dicalcium silicate. *Cement and Concrete Research*, **1991**, 21, 509-514	10.3	6
1	CP/MAS NMR studies of the initial hydration processes of activated and ordinary beta-dicalcium silicates. *Cement and Concrete Research*, **1990**, 20, 986-991	10.3	6