Xiaowei Teng

List of Publications by Year
in descending order

47 papers	4,444 citations	147801 31 h-index	206112 48 g-index
52 all docs	52 docs citations	52 times ranked	6488 citing authors

#	Article	IF	Citations
1	Platinum-Maghemite Coreâ^'Shell Nanoparticles Using a Sequential Synthesis. Nano Letters, 2003, 3, 261-264.	9.1	400
2	â€œPullingâ€•Nanoparticles into Water:â€‰ Phase Transfer of Oleic Acid Stabilized Monodisperse Nanoparticles into Aqueous Solutions of Î±-Cyclodextrin. Nano Letters, 2003, 3, 1555-1559.	9.1	279
3	Synthesis of Platinum Multipods:Â An Induced Anisotropic Growth. Nano Letters, 2005, 5, 885-891.	9.1	272
4	Palladiumâ€"Tin Alloyed Catalysts for the Ethanol Oxidation Reaction in an Alkaline Medium. ACS Catalysis, 2012, 2, 287-297.	11.2	266
5	Solvent-Free Atom Transfer Radical Polymerization in the Synthesis of Fe2O3@Polystyrene Coreâ^'Shell Nanoparticles. Nano Letters, 2003, 3, 789-793.	9.1	236
6	Patterned Langmuirâ^'Blodgett Films of Monodisperse Nanoparticles of Iron Oxide Using Soft Lithography. Journal of the American Chemical Society, 2003, 125, 630-631.	13.7	236
7	Synthesis of Porous Platinum Nanoparticles. Small, 2006, 2, 249-253.	10.0	234
8	Effects of surfactants and synthetic conditions on the sizes and self-assembly of monodisperse iron oxide nanoparticlesElectronic supplementary information (ESI) available: XRD data of iron oxide nanoparticles, Fig. S1 and S2. See http://www.rsc.org/suppdata/jm/b3/b311610g/. Journal of Materials Chemistry, 2004, 14, 774.	6.7	181
9	Platinum-Tin Oxide Coreâ€"Shell Catalysts for Efficient Electro-Oxidation of Ethanol. Journal of the American Chemical Society, 2014, 136, 10862-10865.	13.7	180
10	Synthesis of Face-Centered Tetragonal FePt Nanoparticles and Granular Films from Pt@Fe2O3Coreâ^'Shell Nanoparticles. Journal of the American Chemical Society, 2003, 125, 14559-14563.	13.7	173
11	Highly Active Iridium/Iridiumâ€"Tin/Tin Oxide Heterogeneous Nanoparticles as Alternative Electrocatalysts for the Ethanol Oxidation Reaction. Journal of the American Chemical Society, 2011, 133, 15172-15183.	13.7	167
12	Formation of Pd/Au Nanostructures from Pd Nanowires via Galvanic Replacement Reaction. Journal of the American Chemical Society, 2008, 130, 1093-1101.	13.7	146
13	Roles of Twin Defects in the Formation of Platinum Multipod Nanocrystals. Journal of Physical Chemistry C, 2007, 111, 14312-14319.	3.1	136
14	Three-Dimensional PtRu Nanostructures. Chemistry of Materials, 2007, 19, 36-41.	6.7	123
15	Structural water engaged disordered vanadium oxide nanosheets for high capacity aqueous potassium-ion storage. Nature Communications, 2017, 8, 15520.	12.8	121
16	Synthesis of Ultrathin Palladium and Platinum Nanowires and a Study of Their Magnetic Properties. Angewandte Chemie - International Edition, 2008, 47, 2055-2058.	13.8	116
17	Bivalence Mn5O8 with hydroxylated interphase for high-voltage aqueous sodium-ion storage. Nature Communications, 2016, 7, 13370.	12.8	109
18	Electronic and Magnetic Properties of Ultrathin Au/Pt Nanowires. Nano Letters, 2009, 9, 3177-3184.	9.1	91

#	Article	IF	Citations
19	Structural water and disordered structure promote aqueous sodium-ion energy storage in sodium-birnessite. Nature Communications, 2019, 10, 4975.	12.8	75
20	One-Dimensional Ceria as Catalyst for the Low-Temperature Waterâ^'Gas Shift Reaction. Journal of Physical Chemistry C, 2009, 113, 21949-21955.	3.1	68
21	Highly Efficient K_{0.15}MnO₂ Birnessite Nanosheets for Stable Pseudocapacitive Cathodes. Journal of Physical Chemistry C, 2012, 116, 20173-20181.	3.1	65
22	Ternary PtSnRhâ€“SnO2 nanoclusters: synthesis and electroactivity for ethanol oxidation fuel cell reaction. Journal of Materials Chemistry, 2011, 21, 8887.	6.7	64
23	Planar tripods of platinum: formation and self-assembly. Physical Chemistry Chemical Physics, 2006, 8, 4660.	2.8	63
24	Framework Doping of Ni Enhances Pseudocapacitive Na-Ion Storage of (Ni)MnO₂ Layered Birnessite. Chemistry of Materials, 2019, 31, 8774-8786.	6.7	51
25	Iridiumâ€“Ruthenium Alloyed Nanoparticles for the Ethanol Oxidation Fuel Cell Reactions. ACS Catalysis, 2012, 2, 1226-1231.	11.2	47
26	Potentiodynamics of the Zinc and Proton Storage in Disordered Sodium Vanadate for Aqueous Zn-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 54627-54636.	8.0	46
27	Pseudocapacitive NiO Fine Nanoparticles for Supercapacitor Reactions. Journal of the Electrochemical Society, 2012, 159, A1598-A1603.	2.9	44
28	Hybrid Pt/Au Nanowires: Synthesis and Electronic Structure. Journal of Physical Chemistry C, 2008, 112, 14696-14701.	3.1	40
29	Synthesis of magnetic nanocomposites and alloys from platinumâ€“iron oxide coreâ€“shell nanoparticles. Nanotechnology, 2005, 16, S554-S561.	2.6	39
30	Promotional Effects of Bismuth on the Formation of Platinumâ^'Bismuth Nanowires Network and the Electrocatalytic Activity toward Ethanol Oxidation. Crystal Growth and Design, 2011, 11, 594-599.	3.0	36
31	Enhanced Electrokinetics of Câ^'C Bond Splitting during Ethanol Oxidation by using a Pt/Rh/Sn Catalyst with a Partially Oxidized Pt and Rh Core and a SnO₂ Shell. ChemCatChem, 2016, 8, 2876-2880.	3.7	31
32	Screening iridium-based bimetallic alloys as catalysts for direct ethanol fuel cells. Applied Catalysis A: General, 2014, 483, 85-96.	4.3	30
33	Structural characterization of bimetallic nanomaterials with overlapping x-ray absorption edges. Physical Review B, 2009, 80, .	3.2	25
34	Biphase Cobaltâ€“Manganese Oxide with High Capacity and Rate Performance for Aqueous Sodiumâ€Ion Electrochemical Energy Storage. Advanced Functional Materials, 2018, 28, 1703266.	14.9	25
35	Influence of â^—OH adsorbates on the potentiodynamics of the CO2 generation during the electro-oxidation of ethanol. Journal of Catalysis, 2017, 353, 335-348.	6.2	24
36	Pseudocapacitive Hausmannite Nanoparticles with (101) Facets: Synthesis, Characterization, and Chargeâ€Transfer Mechanism. ChemSusChem, 2013, 6, 1983-1992.	6.8	22

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37	Exchange bias effect in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mtext>Au-Fe</mml:mtext><mml:mn>3</mml:m mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>dumbbell nanoparticles induced by the charge transfer from gold. Physical Review B, 2015, 92, .	3.2	21
38	High-Capacity Aqueous Storage in Vanadate Cathodes Promoted by the Zn-Ion and Proton Intercalation and Conversionâ€“Intercalation of Vanadyl Ions. ACS Applied Materials & Interfaces, 2021, 13, 25993-26000.	8.0	20
39	High purity Mn5O8 nanoparticles with a high overpotential to gas evolution reactions for high voltage aqueous sodium-ion electrochemical storage. Frontiers in Energy, 2017, 11, 383-400.	2.3	19
40	Storage of Potassium Ions in Layered Vanadium Pentoxide Nanofiber Electrodes for Aqueous Pseudocapacitors. ChemSusChem, 2013, 6, 2231-2235.	6.8	16
41	Electrochemically prepared cuprous oxide film for photo-catalytic oxygen evolution from water oxidation under visible light. Solar Energy Materials and Solar Cells, 2015, 132, 275-281.	6.2	15
42	Conversion of Ethanol via Câ€“C Splitting on Noble Metal Surfaces in Room-Temperature Liquid-Phase. Journal of the American Chemical Society, 2019, 141, 9444-9447.	13.7	15
43	Dual-stage K⁺ ion intercalation in V₂O₅-conductive polymer composites. Journal of Materials Chemistry A, 2021, 9, 15629-15636.	10.3	13
44	Exemption of lattice collapse in Niâ€“MnO₂ birnessite regulated by the structural water mobility. Journal of Materials Chemistry A, 2021, 9, 23459-23466.	10.3	12
45	Synthesis and electrocatalytic property of cubic and spherical nanoparticles of cobalt platinum alloys. Frontiers of Chemical Engineering in China, 2010, 4, 45-51.	0.6	10
46	Iron oxide shell as the oxidation-resistant layer in SmCo5 @ Fe2O3 core-shell magnetic nanoparticles. Journal of Nanoscience and Nanotechnology, 2007, 7, 356-61.	0.9	2
47	Revitalizing Iron Redox by Anion-Insertion-Assisted Ferro- and Ferri-Hydroxides Conversion at Low Alkalinity. Journal of the American Chemical Society, 2022, 144, 11938-11942.	13.7	2