Ge-Ping Yin

List of Publications by Citations

346 papers	15,162 citations	62 h-index	108 g-index
355 ext. papers	17,569 ext. citations	8.9 avg, IF	6.83 L-index

#	Paper	IF	Citations
346	Understanding and approaches for the durability issues of Pt-based catalysts for PEM fuel cell. *Journal of Power Sources*, **2007**, 171, 558-566	8.9	926
345	Nitrogen-doped carbon nanostructures and their composites as catalytic materials for proton exchange membrane fuel cell. *Applied Catalysis B: Environmental*, **2008**, 79, 89-99	21.8	649
344	Carbonized nanoscale metal-organic frameworks as high performance electrocatalyst for oxygen reduction reaction. *ACS Nano*, **2014**, 8, 12660-8	16.7	456
343	Proton exchange membrane fuel cell from low temperature to high temperature: Material challenges. *Journal of Power Sources*, **2007**, 167, 235-242	8.9	425
342	Durability Study of Pt□ and Pt□CNTs Catalysts under Simulated PEM Fuel Cell Conditions. *Journal of the Electrochemical Society*, **2006**, 153, A1093	3.9	351
341	Effect of carbon black support corrosion on the durability of Pt/C catalyst. *Journal of Power Sources* , **2007**, 171, 331-339	8.9	343
340	Graphene Decorated with PtAu Alloy Nanoparticles: Facile Synthesis and Promising Application for Formic Acid Oxidation. *Chemistry of Materials*, **2011**, 23, 1079-1081	9.6	342
339	Polyelectrolyte-induced reduction of exfoliated graphite oxide: a facile route to synthesis of soluble graphene nanosheets. *ACS Nano*, **2011**, 5, 1785-91	16.7	274
338	Comparative investigation of the resistance to electrochemical oxidation of carbon black and carbon nanotubes in aqueous sulfuric acid solution. *Electrochimica Acta*, **2006**, 51, 5853-5857	6.7	272
337	Electrostatic self-assembly of a Pt-around-Au nanocomposite with high activity towards formic acid oxidation. *Angewandte Chemie - International Edition*, **2010**, 49, 2211-4	16.4	270
336	Superior performance of ordered macroporous TiNb2O7 anodes for lithium ion batteries: Understanding from the structural and pseudocapacitive insights on achieving high rate capability. *Nano Energy*, **2017**, 34, 15-25	17.1	264
335	Evaluation of ZnO nanorod arrays with dandelion-like morphology as negative electrodes for lithium-ion batteries. *Electrochimica Acta*, **2009**, 54, 2851-2855	6.7	214
334	Understanding undesirable anode lithium plating issues in lithium-ion batteries. *RSC Advances*, **2016**, 6, 88683-88700	3.7	204
333	Ultrahigh stable carbon riveted Pt/TiO2□ catalyst prepared by in situ carbonized glucose for proton exchange membrane fuel cell. *Energy and Environmental Science*, **2011**, 4, 728-735	35.4	170
332	Three dimensional N-doped graphene/PtRu nanoparticle hybrids as high performance anode for direct methanol fuel cells. *Journal of Materials Chemistry A*, **2014**, 2, 3719	13	165
331	Recent progress in nanostructured electrocatalysts for PEM fuel cells. *Journal of Materials Chemistry A*, **2013**, 1, 4631	13	157
330	ZIF-8 with Ferrocene Encapsulated: A Promising Precursor to Single-Atom Fe Embedded Nitrogen-Doped Carbon as Highly Efficient Catalyst for Oxygen Electroreduction. *Small*, **2018**, 14, e1704282	11	148

329	Nanosized core/shell silicon@carbon anode material for lithium ion batteries with polyvinylidene fluoride as carbon source. *Journal of Materials Chemistry*, **2010**, 20, 3216		146
328	Carbon nanotubes decorated with Pt nanoparticles via electrostatic self-assembly: a highly active oxygen reduction electrocatalyst. *Journal of Materials Chemistry*, **2010**, 20, 2826		144
327	Radially Oriented Single-Crystal Primary Nanosheets Enable Ultrahigh Rate and Cycling Properties of LiNi0.8Co0.1Mn0.1O2 Cathode Material for Lithium-Ion Batteries. *Advanced Energy Materials*, **2019**, 9, 1803963	21.8	143
326	Nanoporous PdNi Alloy Nanowires As Highly Active Catalysts for the Electro-Oxidation of Formic Acid. *ACS Applied Materials & Interfaces*, **2011**, 3, 105-9	9.5	131
325	Investigation of Further Improvement of Platinum Catalyst Durability with Highly Graphitized Carbon Nanotubes Support. *Journal of Physical Chemistry C*, **2008**, 112, 5784-5789	3.8	120
324	Pseudocapacitive Li+ intercalation in porous Ti2Nb10O29 nanospheres enables ultra-fast lithium storage. *Energy Storage Materials*, **2018**, 11, 57-66	19.4	119
323	Facile synthesis of PtAu alloy nanoparticles with high activity for formic acid oxidation. *Journal of Power Sources*, **2010**, 195, 1103-1106	8.9	119
322	Fabrication of CuO film with network-like architectures through solution-immersion and their application in lithium ion batteries. *Journal of Power Sources*, **2007**, 167, 206-211	8.9	115
321	Advanced catalyst supports for PEM fuel cell cathodes. *Nano Energy*, **2016**, 29, 314-322	17.1	114
320	Nitrogen□oped graphitized carbon shell encapsulated NiFe nanoparticles: A highly durable oxygen evolution catalyst. *Nano Energy*, **2017**, 39, 245-252	17.1	109
319	Multi-walled carbon nanotubes based Pt electrodes prepared with in situ ion exchange method for oxygen reduction. *Journal of Power Sources*, **2006**, 161, 47-53	8.9	108
318	High-rate capability of three-dimensionally ordered macroporous T-Nb2O5 through Li+ intercalation pseudocapacitance. *Journal of Power Sources*, **2017**, 361, 80-86	8.9	106
317	Effects of temperature on charge/discharge behaviors of LiFePO4 cathode for Li-ion batteries. *Electrochimica Acta*, **2012**, 60, 269-273	6.7	103
316	Fluoroethylene carbonate as electrolyte additive to improve low temperature performance of LiFePO4 electrode. *Electrochimica Acta*, **2013**, 87, 466-472	6.7	100
315	Surface regulation enables high stability of single-crystal lithium-ion cathodes at high voltage. *Nature Communications*, **2020**, 11, 3050	17.4	97
314	Facile synthesis of nanostructured TiNb2O7 anode materials with superior performance for high-rate lithium ion batteries. *Chemical Communications*, **2015**, 51, 17293-6	5.8	96
313	Carbon riveted microcapsule Pt/MWCNTs-TiO2catalyst prepared by in situ carbonized glucose with ultrahigh stability for proton exchange membrane fuel cell. *Energy and Environmental Science*, **2011**, 4, 2558	35.4	94
312	Lithium-rich Li1.2Ni0.13Co0.13Mn0.54O2 oxide coated by Li3PO4 and carbon nanocomposite layers as high performance cathode materials for lithium ion batteries. *Journal of Materials Chemistry A*, **2015**, 3, 2634-2641	13	92

311	Improved electrochemical performance of micro-sized SiO-based composite anode by prelithiation of stabilized lithium metal powder. *Journal of Power Sources*, **2017**, 347, 170-177	8.9	91
310	High loading single-atom Cu dispersed on graphene for efficient oxygen reduction reaction. *Nano Energy*, **2019**, 66, 104088	17.1	88
309	Self-assembly of Pt nanoparticles on highly graphitized carbon nanotubes as an excellent oxygen-reduction catalyst. *Applied Catalysis B: Environmental*, **2011**, 102, 372-377	21.8	84
308	Interface Issues and Challenges in All-Solid-State Batteries: Lithium, Sodium, and Beyond. *Advanced Materials*, **2021**, 33, e2000721	24	84
307	Enabling reliable lithium metal batteries by a bifunctional anionic electrolyte additive. *Energy Storage Materials*, **2018**, 11, 197-204	19.4	82
306	Stabilization of platinum nanoparticle electrocatalysts for oxygen reduction using poly(diallyldimethylammonium chloride). *Journal of Materials Chemistry*, **2009**, 19, 7995		82
305	Flower-like CuO film-electrode for lithium ion batteries and the effect of surface morphology on electrochemical performance. *Electrochimica Acta*, **2007**, 53, 951-956	6.7	81
304	Ethanol-assisted hydrothermal synthesis of LiNi0.5Mn1.5O4 with excellent long-term cyclability at high rate for lithium-ion batteries. *Journal of Materials Chemistry A*, **2014**, 2, 4185-4191	13	80
303	Oxygen vacancies in SnO2 surface coating to enhance the activation of layered Li-Rich Li1.2Mn0.54Ni0.13Co0.13O2 cathode material for Li-ion batteries. *Journal of Power Sources*, **2016**, 331, 91-99	8.9	75
302	Electrocatalytic valorisation of biomass derived chemicals. *Catalysis Science and Technology*, **2018**, 8, 3216-3232	5.5	73
301	Unravelling the origin of irreversible capacity loss in NaNiO2 for high voltage sodium ion batteries. *Nano Energy*, **2017**, 34, 215-223	17.1	69
300	Facile fabrication of a nanoporous silicon electrode with superior stability for lithium ion batteries. *Energy and Environmental Science*, **2011**, 4, 1037	35.4	69
299	Ti-Based Oxide Anode Materials for Advanced Electrochemical Energy Storage: Lithium/Sodium Ion Batteries and Hybrid Pseudocapacitors. *Small*, **2019**, 15, e1904740	11	69
298	Capacity fading mechanism during long-term cycling of over-discharged LiCoO2/mesocarbon microbeads battery. *Journal of Power Sources*, **2015**, 293, 1006-1015	8.9	67
297	High-performance LiFePO4 cathode material from FePO4 microspheres with carbon nanotube networks embedded for lithium ion batteries. *Journal of Power Sources*, **2013**, 223, 100-106	8.9	67
296	A Mild Surface Washing Method Using Protonated Polyaniline for Ni-rich LiNi0.8Co0.1Mn0.1O2 Material of Lithium Ion Batteries. *Electrochimica Acta*, **2017**, 248, 534-540	6.7	67
295	Micro-sized spherical silicon@carbon@graphene prepared by spray drying as anode material for lithium-ion batteries. *Journal of Alloys and Compounds*, **2017**, 723, 434-440	5.7	67
294	A two-dimensional nitrogen-rich carbon/silicon composite as high performance anode material for lithium ion batteries. *Chemical Engineering Journal*, **2018**, 341, 37-46	14.7	66

293	Facilitating the redox reaction of polysulfides by an electrocatalytic layer-modified separator for lithium–sulfur batteries. *Journal of Materials Chemistry A*, **2017**, 5, 10936-10945	13	65
292	An Li-rich oxide cathode material with mosaic spinel grain and a surface coating for high performance Li-ion batteries. *Journal of Materials Chemistry A*, **2014**, 2, 15640	13	65
291	Multi-stress factor model for cycle lifetime prediction of lithium ion batteries with shallow-depth discharge. *Journal of Power Sources*, **2015**, 279, 123-132	8.9	65
290	Boron-doped graphene as promising support for platinum catalyst with superior activity towards the methanol electrooxidation reaction. *Journal of Power Sources*, **2015**, 300, 245-253	8.9	64
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286	A novel CNT@SnO2 core–sheath nanocomposite as a stabilizing support for catalysts of proton exchange membrane fuel cells. *Electrochemistry Communications*, **2009**, 11, 496-498	5.1	62
285	Ab initio investigations of the electric field dependence of the geometric and electronic structures of molecular wires. *Journal of Physical Chemistry A*, **2006**, 110, 11130-5	2.8	62
284	Pd nanoparticles deposited on vertically aligned carbon nanotubes grown on carbon paper for formic acid oxidation. *International Journal of Hydrogen Energy*, **2009**, 34, 8270-8275	6.7	61
283	Polyaniline-encapsulated silicon on three-dimensional carbon nanotubes foam with enhanced electrochemical performance for lithium-ion batteries. *Journal of Power Sources*, **2018**, 381, 156-163	8.9	60
282	Electrochemical stability of silicon/carbon composite anode for lithium ion batteries. *Electrochimica Acta*, **2007**, 52, 4878-4883	6.7	59
281	Iodine-doped sulfurized polyacrylonitrile with enhanced electrochemical performance for room-temperature sodium/potassium sulfur batteries. *Chemical Communications*, **2019**, 55, 5267-5270	5.8	58
280	Modification of Nafion membrane using fluorocarbon surfactant for all vanadium redox flow battery. *Journal of Membrane Science*, **2015**, 476, 20-29	9.6	57
279	Covalently-functionalizing synthesis of Si@C core–shell nanocomposites as high-capacity anode materials for lithium-ion batteries. *Journal of Materials Chemistry*, **2011**, 21, 15692		57
278	Improved electrochemical performance and capacity fading mechanism of nano-sized LiMn0.9Fe0.1PO4 cathode modified by polyacene coating. *Journal of Materials Chemistry A*, **2015**, 3, 1569-1579	13	55
277	Al2O3 Coated Concentration-Gradient Li[Ni0.73Co0.12Mn0.15]O2 Cathode Material by Freeze Drying for Long-Life Lithium Ion Batteries. *Electrochimica Acta*, **2015**, 174, 1185-1191	6.7	54
276	Palladium nanocrystals-imbedded mesoporous hollow carbon spheres with enhanced electrochemical kinetics for high performance lithium sulfur batteries. *Carbon*, **2019**, 143, 878-889	10.4	54

275	Synergistic engineering of defects and architecture in Co3O4@C nanosheets toward Li/Na ion batteries with enhanced pseudocapacitances. *Nano Energy*, **2020**, 78, 105366	17.1	53
274	A novel Pt/Au/C cathode catalyst for direct methanol fuel cells with simultaneous methanol tolerance and oxygen promotion. *Electrochemistry Communications*, **2008**, 10, 831-834	5.1	52
273	Electronically Conductive Sb-doped SnO 2 Nanoparticles Coated LiNi 0.8 Co 0.15 Al 0.05 O 2 Cathode Material with Enhanced Electrochemical Properties for Li-ion Batteries. *Electrochimica Acta*, **2017**, 236, 273-279	6.7	50
272	Pd-around-CeO2□ hybrid nanostructure catalyst: three-phase-transfer synthesis, electrocatalytic properties and dual promoting mechanism. *Journal of Materials Chemistry A*, **2014**, 2, 1429-1435	13	50
271	Free-Standing Sandwich-Type Graphene/Nanocellulose/Silicon Laminar Anode for Flexible Rechargeable Lithium Ion Batteries. *ACS Applied Materials & Interfaces*, **2018**, 10, 29638-29646	9.5	48
270	Conformational analysis of diphenylacetylene under the influence of an external electric field. *Physical Chemistry Chemical Physics*, **2007**, 9, 1186-93	3.6	48
269	Active and Stable Pt□Ni Alloy Octahedra Catalyst for Oxygen Reduction via Near-Surface Atomical Engineering. *ACS Catalysis*, **2020**, 10, 4205-4214	13.1	47
268	A facile strategy to prepare nano-crystalline Li4Ti5O12/C anode material via polyvinyl alcohol as carbon source for high-rate rechargeable Li-ion batteries. *Electrochimica Acta*, **2013**, 93, 173-178	6.7	47
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265	Understanding the initial irreversibility of metal sulfides for sodium-ion batteries via operando techniques. *Nano Energy*, **2018**, 43, 184-191	17.1	46
264	Boron, nitrogen co-doped graphene: a superior electrocatalyst support and enhancing mechanism for methanol electrooxidation. *Electrochimica Acta*, **2016**, 212, 313-321	6.7	45
263	Investigation on performance of Pd/Al2O3□ catalyst synthesized by microwave assisted polyol process for electrooxidation of formic acid. *RSC Advances*, **2012**, 2, 344-350	3.7	44
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259	Polyelectrolyte assisted synthesis and enhanced oxygen reduction activity of Pt nanocrystals with controllable shape and size. *ACS Applied Materials & Interfaces*, **2014**, 6, 14043-9	9.5	43
258	Improving electrochemical performance of NiO films by electrodeposition on foam nickel substrates. *Journal of Applied Electrochemistry*, **2009**, 39, 1597-1602	2.6	43

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254	Enhancement of high voltage cycling performance and thermal stability of LiNi1/3Co1/3Mn1/3O2 cathode by use of boron-based additives. *Solid State Ionics*, **2014**, 263, 146-151	3.3	40
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250	Influence of fluoroethylene carbonate as co-solvent on the high-voltage performance of LiNi1/3Co1/3Mn1/3O2 cathode for lithium-ion batteries. *Electrochimica Acta*, **2016**, 191, 8-15	6.7	39
249	Iron sulfide/carbon hybrid cluster as an anode for potassium-ion storage. *Journal of Alloys and Compounds*, **2018**, 766, 1086-1091	5.7	39
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245	Oxygen Reduction Kinetics on Pt Monolayer Shell Highly Affected by the Structure of Bimetallic AuNi Cores. *Chemistry of Materials*, **2016**, 28, 5274-5281	9.6	38
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243	Hierarchical ordered macroporous/ultrathin mesoporous carbon architecture: A promising cathode scaffold with excellent rate performance for rechargeable Li-O2 batteries. *Carbon*, **2017**, 118, 139-147	10.4	37
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239	Changing of SEI Film and Electrochemical Properties about MCMB Electrodes during Long-Term Charge/Discharge Cycles. *Journal of the Electrochemical Society*, **2013**, 160, A2093-A2099	3.9	36
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236	Degradation mechanism of LiCoO2/mesocarbon microbeads battery based on accelerated aging tests. *Journal of Power Sources*, **2014**, 268, 816-823	8.9	35
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234	A dual-salt coupled fluoroethylene carbonate succinonitrile-based electrolyte enables Li-metal batteries. *Journal of Materials Chemistry A*, **2020**, 8, 2066-2073	13	35
233	Structural Distortion Induced by Manganese Activation in a Lithium-Rich Layered Cathode. *Journal of the American Chemical Society*, **2020**, 142, 14966-14973	16.4	35
232	Bifunctional LaMnCoO Perovskite Oxide Catalyst for Oxygen Reduction and Evolution Reactions: The Optimized e Electronic Structures by Manganese Dopant. *ACS Applied Materials & Interfaces*, **2020**, 12, 24717-24725	9.5	34
231	A novel nanoporous Fe-doped lithium manganese phosphate material with superior long-term cycling stability for lithium-ion batteries. *Nanoscale*, **2015**, 7, 11509-14	7.7	34
230	Metal-Organic Coordination Networks: Prussian Blue and Its Synergy with Pt Nanoparticles to Enhance Oxygen Reduction Kinetics. *ACS Applied Materials & Interfaces*, **2016**, 8, 15250-7	9.5	33
229	Ultra-thin polytetrafluoroethene/Nafion/silica composite membrane with high performance for vanadium redox flow battery. *Journal of Power Sources*, **2014**, 272, 113-120	8.9	33
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225	Pt□GO□TiO2 nanocomposite by UV-photoreduction method as promising electrocatalyst for methanol oxidation. *International Journal of Hydrogen Energy*, **2013**, 38, 12310-12317	6.7	32
224	Theoretical investigations of oligo(phenylene ethylene) molecular wire: Effects from substituents and external electric field. *Computational Materials Science*, **2007**, 39, 775-781	3.2	32
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220	The Enhanced CO Tolerance of Platinum Supported on FeP Nanosheet for Superior Catalytic Activity Toward Methanol Oxidation. *Electrochimica Acta*, **2017**, 254, 36-43	6.7	31
219	Enhancement of low-temperature performance of LiFePO4 electrode by butyl sultone as electrolyte additive. *Solid State Ionics*, **2014**, 254, 27-31	3.3	31
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211	Lithium Phosphorus Oxynitride Coated Concentration Gradient Li[Ni0.73Co0.12Mn0.15]O2 Cathode Material with Enhanced Electrochemical Properties. *Electrochimica Acta*, **2016**, 192, 340-345	6.7	29
210	Anisotropically Electrochemical-Mechanical Evolution in Solid-State Batteries and Interfacial Tailored Strategy. *Angewandte Chemie - International Edition*, **2019**, 58, 18647-18653	16.4	29
209	Lithium deposition on graphite anode during long-term cycles and the effect on capacity loss. *RSC Advances*, **2014**, 4, 26335-26341	3.7	29
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205	Pt nanoparticles supported by sulfur and phosphorus co-doped graphene as highly active catalyst for acidic methanol electrooxidation. *Electrochimica Acta*, **2018**, 285, 202-213	6.7	28
204	In Situ Deposition of Highly Dispersed Pt Nanoparticles on Carbon Black Electrode for Oxygen Reduction. *Journal of the Electrochemical Society*, **2006**, 153, A1261	3.9	28

203	Ultra-low Pt decorated PdFe Alloy Nanoparticles for Formic Acid Electro-oxidation. *Electrochimica Acta*, **2016**, 217, 203-209	6.7	28
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201	Self-doping Ti1-xNb2+xO7 anode material for lithium-ion battery and its electrochemical performance. *Journal of Alloys and Compounds*, **2017**, 728, 534-540	5.7	27
200	Effects of carbon on the structure and electrochemical performance of Li2FeSiO4 cathode materials for lithium-ion batteries. *RSC Advances*, **2012**, 2, 6994	3.7	27
199	Unravelling the Enhanced High-Temperature Performance of Lithium-Rich Oxide Cathode with Methyl Diphenylphosphinite as Electrolyte Additive. *ChemElectroChem*, **2018**, 5, 1569-1575	4.3	26
198	Lithium compound deposition on mesocarbon microbead anode of lithium ion batteries after long-term cycling. *ACS Applied Materials & Interfaces*, **2014**, 6, 12962-70	9.5	26
197	Inducing uniform lithium nucleation by integrated lithium-rich li-in anode with lithiophilic 3D framework. *Energy Storage Materials*, **2020**, 33, 423-431	19.4	26
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