

Xiang Peng

List of Publications by Year in descending order

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69
papers

5,120
citations

76294

40
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69
docs citations

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times ranked

7470
citing authors

#	ARTICLE	IF	CITATIONS
1	Freestanding Mesoporous VN/CNT Hybrid Electrodes for Flexible All-Solid-State Supercapacitors. <i>Advanced Materials</i> , 2013, 25, 5091-5097.	11.1	420
2	Recent progress of transition metal nitrides for efficient electrocatalytic water splitting. <i>Sustainable Energy and Fuels</i> , 2019, 3, 366-381.	2.5	305
3	Enhanced Ion Conductivity in Conducting Polymer Binder for High-Performance Silicon Anodes in Advanced Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1702314.	10.2	258
4	Recent advance and prospectives of electrocatalysts based on transition metal selenides for efficient water splitting. <i>Nano Energy</i> , 2020, 78, 105234.	8.2	250
5	Antibacterial effects of titanium embedded with silver nanoparticles based on electron-transfer-induced reactive oxygen species. <i>Biomaterials</i> , 2017, 124, 25-34.	5.7	219
6	Elucidating the Intercalation Pseudocapacitance Mechanism of MoS ₂ -Carbon Monolayer Interoverlapped Superstructure: Toward High-Performance Sodium-Ion-Based Hybrid Supercapacitor. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 32745-32755.	4.0	156
7	An antibacterial platform based on capacitive carbon-doped TiO ₂ nanotubes after direct or alternating current-charging. <i>Nature Communications</i> , 2018, 9, 2055.	5.8	153
8	Hydrogenated V ₂ O ₅ Nanosheets for Superior Lithium Storage Properties. <i>Advanced Functional Materials</i> , 2016, 26, 784-791.	7.8	149
9	Ni/Co-based nanosheet arrays for efficient oxygen evolution reaction. <i>Nano Energy</i> , 2018, 52, 360-368.	8.2	135
10	Vanadium carbide nanoparticles encapsulated in graphitic carbon network nanosheets: A high-efficiency electrocatalyst for hydrogen evolution reaction. <i>Nano Energy</i> , 2016, 26, 603-609.	8.2	120
11	In situ segregation of cobalt nanoparticles on VN nanosheets via nitriding of Co ₂ V ₂ O ₇ nanosheets as efficient oxygen evolution reaction electrocatalysts. <i>Nano Energy</i> , 2017, 34, 1-7.	8.2	119
12	Ni-doped amorphous iron phosphide nanoparticles on TiN nanowire arrays: An advanced alkaline hydrogen evolution electrocatalyst. <i>Nano Energy</i> , 2018, 53, 66-73.	8.2	115
13	Highly Stretchable Conductive Glue for High-Performance Silicon Anodes in Advanced Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1704858.	7.8	113
14	Mesoporous nitrogen-doped carbon hollow spheres as high-performance anodes for lithium-ion batteries. <i>Journal of Power Sources</i> , 2016, 324, 233-238.	4.0	108
15	Corrosion resistance and cytocompatibility of tantalum-surface-functionalized biomedical ZK60 Mg alloy. <i>Corrosion Science</i> , 2017, 114, 45-56.	3.0	106
16	Bamboo leaf derived ultrafine Si nanoparticles and Si/C nanocomposites for high-performance Li-ion battery anodes. <i>Nanoscale</i> , 2015, 7, 13840-13847.	2.8	105
17	Nitrogen-Doped Carbon Encapsulated Mesoporous Vanadium Nitride Nanowires as Self-Supported Electrodes for Flexible All-Solid-State Supercapacitors. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500211.	1.9	104
18	Mesoporous hollow nanospheres consisting of carbon coated silica nanoparticles for robust lithium-ion battery anodes. <i>Journal of Power Sources</i> , 2017, 345, 227-236.	4.0	99

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19	Flexible Nb ₂ O ₅ nanowires/graphene film electrode for high-performance hybrid Li-ion supercapacitors. <i>Journal of Power Sources</i> , 2016, 328, 599-606.	4.0	95
20	Coaxial PANI/TiN/PANI nanotube arrays for high-performance supercapacitor electrodes. <i>Chemical Communications</i> , 2013, 49, 10172.	2.2	92
21	Mesoporous TiO ₂ Nanocrystals/Graphene as an Efficient Sulfur Host Material for High-Performance Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 23784-23792.	4.0	89
22	Reduced graphene oxide encapsulated selenium nanoparticles for high-power lithium-selenium battery cathode. <i>Journal of Power Sources</i> , 2015, 288, 214-220.	4.0	88
23	Spatially confined synthesis of vanadium nitride nanodots intercalated carbon nanosheets with ultrahigh volumetric capacitance and long life for flexible supercapacitors. <i>Nano Energy</i> , 2018, 51, 128-136.	8.2	87
24	Peapod-like V ₂ O ₃ nanorods encapsulated into carbon as binder-free and flexible electrodes in lithium-ion batteries. <i>Journal of Power Sources</i> , 2016, 331, 58-66.	4.0	86
25	In Situ Synthesis of MoP Nanoflakes Intercalated N-Doped Graphene Nanobelts from MoO ₃ -Amine Hybrid for High-Efficient Hydrogen Evolution Reaction. <i>Small</i> , 2018, 14, e1800667.	5.2	85
26	In situ synthesis of Ni(OH) ₂ /TiO ₂ composite film on NiTi alloy for non-enzymatic glucose sensing. <i>Sensors and Actuators B: Chemical</i> , 2016, 232, 150-157.	4.0	80
27	Multilayered paper-like electrodes composed of alternating stacked mesoporous Mo ₂ N nanobelts and reduced graphene oxide for flexible all-solid-state supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015, 3, 14617-14624.	5.2	75
28	Extracellular Electron Transfer from Aerobic Bacteria to Au-Loaded TiO ₂ Semiconductor without Light: A New Bacteria-Killing Mechanism Other than Localized Surface Plasmon Resonance or Microbial Fuel Cells. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 24509-24516.	4.0	62
29	Large-Scale Synthesis and Mechanism of ¹² -SiC Nanoparticles from Rice Husks by Low-Temperature Magnesiothermic Reduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 6600-6607.	3.2	62
30	Mitigation of Corrosion on Magnesium Alloy by Predesigned Surface Corrosion. <i>Scientific Reports</i> , 2015, 5, 17399.	1.6	59
31	Synthesis of mesoporous niobium nitride nanobelt arrays and their capacitive properties. <i>Applied Surface Science</i> , 2016, 383, 57-63.	3.1	58
32	Strategies to improve cobalt-based electrocatalysts for electrochemical water splitting. <i>Journal of Catalysis</i> , 2021, 398, 54-66.	3.1	58
33	Direct anodic exfoliation of graphite onto high-density aligned graphene for large capacity supercapacitors. <i>Nano Energy</i> , 2017, 34, 515-523.	8.2	56
34	Low Work Function Surface Modifiers for Solution-Processed Electronics: A Review. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701404.	1.9	56
35	Hierarchical Porous Carbon Materials Derived from Self-Template Bamboo Leaves for Lithium-Sulfur Batteries. <i>Electrochimica Acta</i> , 2017, 229, 352-360.	2.6	55
36	Non-enzymatic hydrogen peroxide photoelectrochemical sensor based on WO ₃ decorated core-shell TiC/C nanofibers electrode. <i>Electrochimica Acta</i> , 2013, 108, 491-496.	2.6	51

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37	Molybdenum diselenide "black phosphorus heterostructures for electrocatalytic hydrogen evolution. Applied Surface Science, 2019, 467-468, 328-334.	3.1	47
38	Se-NiSe ₂ hybrid nanosheet arrays with self-regulated elemental Se for efficient alkaline water splitting. Journal of Materials Science and Technology, 2022, 118, 136-143.	5.6	46
39	Crumpled N-doped carbon nanotubes encapsulated with peapod-like Ge nanoparticles for high-rate and long-life Li-ion battery anodes. Journal of Materials Chemistry A, 2016, 4, 7585-7590.	5.2	44
40	Nanoporous Activated Carbon Derived from Rice Husk for High Performance Supercapacitor. Journal of Nanomaterials, 2014, 2014, 1-7.	1.5	43
41	Large and porous carbon sheets derived from water hyacinth for high-performance supercapacitors. RSC Advances, 2016, 6, 29996-30003.	1.7	43
42	Lithiation Kinetics in High-Performance Porous Vanadium Nitride Nanosheet Anode. Electrochimica Acta, 2016, 214, 201-207.	2.6	41
43	Three-Dimensional Activated Carbon Recycled from Rotten Potatoes for High-performance Supercapacitors. Waste and Biomass Valorization, 2016, 7, 551-557.	1.8	35
44	General fabrication of mesoporous Nb ₂ O ₅ nanobelts for lithium ion battery anodes. RSC Advances, 2016, 6, 90489-90493.	1.7	34
45	Highly Durable and Efficient Ni-FeO _x /FeNi ₃ Electrocatalysts Synthesized by a Facile <i>In Situ</i> Combustion-Based Method for Overall Water Splitting with Large Current Densities. ACS Applied Materials & Interfaces, 2022, 14, 27842-27853.	4.0	34
46	Rice Husk-Derived Activated Carbon for Li Ion Battery Anode. Nanoscience and Nanotechnology Letters, 2014, 6, 68-71.	0.4	32
47	Porous Dual-Layered MoO _x Nanotube Arrays with Highly Conductive TiN Cores for Supercapacitors. ChemElectroChem, 2015, 2, 512-517.	1.7	30
48	Spatially controlled synthesis of superlattice-like SnS/nitrogen-doped graphene hybrid nanobelts as high-rate and durable anode materials for sodium-ion batteries. Journal of Materials Chemistry A, 2019, 7, 27475-27483.	5.2	29
49	Non-conjugated diketone as a linkage for enhancing the rate performance of poly(peryleneimides). Journal of Materials Chemistry A, 2020, 8, 19283-19289.	5.2	28
50	Long-term antibacterial characteristics and cytocompatibility of titania nanotubes loaded with Au nanoparticles without photocatalytic effects. Applied Surface Science, 2017, 414, 230-237.	3.1	25
51	Supercapacitor Electrodes Based on Hierarchical Mesoporous MnO _x /Nitrided TiO ₂ Nanorod Arrays on Carbon Fiber Paper. Advanced Materials Interfaces, 2015, 2, 1400446.	1.9	22
52	Self-Supporting and Binder-Free Anode Film Composed of Beaded Stream-Like Li ₄ Ti ₅ O ₁₂ Nanoparticles for High-Performance Lithium-Ion Batteries. ChemElectroChem, 2016, 3, 1301-1305.	1.7	21
53	WO ₃ nanoparticles decorated core-shell TiC-C nanofiber arrays for high sensitive and non-enzymatic photoelectrochemical biosensing. Chemical Communications, 2013, 49, 7091.	2.2	20
54	Dominant Factors Governing the Electron Transfer Kinetics and Electrochemical Biosensing Properties of Carbon Nanofiber Arrays. ACS Applied Materials & Interfaces, 2016, 8, 28872-28879.	4.0	19

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55	Low-temperature Synthesis of Mesoporous SiC Hollow Spheres by Magnesiothermic Reduction. Journal of the American Ceramic Society, 2016, 99, 1859-1861.	1.9	19
56	Enhanced corrosion resistance and biocompatibility of PMMA-coated ZK60 magnesium alloy. Materials Letters, 2016, 173, 178-181.	1.3	19
57	In situ fabrication of Ni nanoparticles on N-doped TiO ₂ nanowire arrays by nitridation of NiTiO ₃ for highly sensitive and enzyme-free glucose sensing. Journal of Materials Chemistry B, 2017, 5, 1779-1786.	2.9	19
58	Tantalum nitride films for corrosion protection of biomedical Mg-Y-RE alloy. Journal of Alloys and Compounds, 2018, 764, 947-958.	2.8	19
59	Suppressing photoinduced charge recombination at the BiVO ₄ NiOOH junction by sandwiching an oxygen vacancy layer for efficient photoelectrochemical water oxidation. Journal of Colloid and Interface Science, 2022, 608, 1116-1125.	5.0	19
60	Hafnium-implanted WE43 magnesium alloy for enhanced corrosion protection and biocompatibility. Surface and Coatings Technology, 2016, 306, 11-15.	2.2	18
61	Nitrogen Doped Carbon Nanosheets Encapsulated in situ Generated Sulfur Enable High Capacity and Superior Rate Cathode for Li-S Batteries. Frontiers in Chemistry, 2018, 6, 429.	1.8	16
62	Robust Electrodes Based on Coaxial TiC/C-MnO ₂ Core/Shell Nanofiber Arrays with Excellent Cycling Stability for High-Performance Supercapacitors. Small, 2015, 11, 1847-1856.	5.2	15
63	Carbon-Doped TiO ₂ /TiO ₂ Nanotube Array Platform for Visible Photocatalysis. Nanoscience and Nanotechnology Letters, 2013, 5, 1251-1257.	0.4	12
64	Three-dimensional flexible carbon electrode for symmetrical supercapacitors. Materials Letters, 2016, 185, 193-196.	1.3	11
65	Freestanding Nanoengineered [001] Preferentially Oriented TiO ₂ Nanosheets~Graphene Planarly Aligned Nano hybrids with Enhanced Li-ion Storage Properties. ChemElectroChem, 2017, 4, 2819-2825.	1.7	9
66	Fabrication of PANI/C-TiO ₂ Composite Nanotube Arrays Electrode for Supercapacitor. Journal of Nanomaterials, 2015, 2015, 1-7.	1.5	8
67	Battery Binders: Highly Stretchable Conductive Glue for High-performance Silicon Anodes in Advanced Lithium-ion Batteries (Adv. Funct. Mater. 3/2018). Advanced Functional Materials, 2018, 28, 1870016.	7.8	8
68	Electrocatalysts: In Situ Synthesis of MoP Nanoflakes Intercalated N-doped Graphene Nanobelts from MoO ₃ ~Amine Hybrid for High-efficient Hydrogen Evolution Reaction (Small 25/2018). Small, 2018, 14, 1870115.	5.2	5
69	Titanium Dioxide Nanotube Arrays for Sensitive and Reliable Photoelectrochemical Sensors. Nanoscience and Nanotechnology Letters, 2013, 5, 1002-1006.	0.4	2