Ge Chen

List of Publications by Year
in descending order

56 papers	2,734 citations	201674 27 h-index	175258 52 g-index
57 all docs	57 docs citations	57 times ranked	4541 citing authors

#	Article	IF	Citations
1	Hydrogenated TiO₂ Nanoparticles Loaded with Au Nanoclusters Demonstrating Largely Enhanced Performance for Electrochemical Reduction of Nitrogen to Ammonia. Energy Technology, 2022, 10, .	3.8	5
2	Ligand Charge Donationâ€“Acquisition Balance: A Unique Strategy to Boost Single Pt Atom Catalyst Mass Activity toward the Hydrogen Evolution Reaction. ACS Catalysis, 2022, 12, 5970-5978.	11.2	18
3	Improving photocatalytic hydrogen production via ultrafine-grained precipitates formed nearby surface defects of NiFe-LDH nanosheets. Chemical Engineering Journal, 2022, 446, 137301.	12.7	23
4	Substitutionally Dispersed Highâ€Oxidation CoO_x Clusters in the Lattice of Rutile TiO₂ Triggering Efficient Coï£¿Ti Cooperative Catalytic Centers for Oxygen Evolution Reactions. Advanced Functional Materials, 2021, 31, 2009610.	14.9	82
5	A synergetic effect between photogenerated carriers and photothermally enhanced electrochemical urea-assisted hydrogen generation on the Ni-NiO/Nickel Foam catalyst. Materials Advances, 2021, 2, 2104-2111.	5.4	15
6	In situliquid cell transmission electron microscopy guiding the design of large-sized cocatalysts coupled with ultra-small photocatalysts for highly efficient energy harvesting. Journal of Materials Chemistry A, 2021, 9, 13056-13064.	10.3	21
7	Water management by hierarchical structures for highly efficient solar water evaporation. Journal of Materials Chemistry A, 2021, 9, 7122-7128.	10.3	34
8	Engineering local coordination environment of atomically dispersed platinum catalyst via lattice distortion of support for efficient hydrogen evolution reaction. Materials Today Energy, 2021, 20, 100653.	4.7	19
9	High active platinum clusters on titanium dioxide supports toward carbon monoxide oxidation. Applied Catalysis B: Environmental, 2020, 266, 118629.	20.2	25
10	A review of advanced metal-free carbon catalysts for oxygen reduction reactions towards the selective generation of hydrogen peroxide. Journal of Materials Chemistry A, 2020, 8, 20849-20869.	10.3	88
11	Hydrogenâ€“nitrogen plasma assisted synthesis of titanium dioxide with enhanced performance as anode for sodium ion batteries. Scientific Reports, 2020, 10, 11817.	3.3	5
12	Ni₃N-Coated Ni Nanorod Arrays for Hydrogen and Oxygen Evolution in Electrochemical Water Splitting. ACS Applied Nano Materials, 2020, 3, 10986-10995.	5.0	23
13	Post-redox engineering electron configurations of atomic thick C3N4 nanosheets for enhanced photocatalytic hydrogen evolution. Applied Catalysis B: Environmental, 2020, 270, 118855.	20.2	40
14	Charge redistribution within platinumâ€“nitrogen coordination structure to boost hydrogen evolution. Nano Energy, 2020, 73, 104739.	16.0	55
15	N-doped TiO₂ with a disordered surface layer fabricated via plasma treatment as an anode with clearly enhanced performance for rechargeable sodium ion batteries. Sustainable Energy and Fuels, 2019, 3, 2688-2696.	4.9	7
16	Inâ€…Situ Observation of Dynamic Galvanic Replacement Reactions in Twinned Metallic Nanowires by Liquid Cell Transmission Electron Microscopy. Angewandte Chemie - International Edition, 2019, 58, 18627-18633.	13.8	45
17	Theoretical screening of novel electrode materials for lithiumâ€“ion batteries from industrial polymers. Ionics, 2019, 25, 4161-4170.	2.4	6
18	Self-floating nanostructured Niâ€“NiO_x/Ni foam for solar thermal water evaporation. Journal of Materials Chemistry A, 2019, 7, 8485-8490.	10.3	82

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19	Disordered surface formation of WS₂via hydrogen plasma with enhanced anode performances for lithium and sodium ion batteries. Sustainable Energy and Fuels, 2019, 3, 865-874.	4.9	19
20	The effects of confinement on TiO2@SnO2@TiO2 hollow spheres for high reversible lithium storage capacity. Journal of Alloys and Compounds, 2019, 778, 375-381.	5.5	12
21	Plasma Hydrogenated TiO₂/Nickel Foam as an Efficient Bifunctional Electrocatalyst for Overall Water Splitting. ACS Sustainable Chemistry and Engineering, 2019, 7, 885-894.	6.7	40
22	Highly active, stable oxidized platinum clusters as electrocatalysts for the hydrogen evolution reaction. Energy and Environmental Science, 2017, 10, 2450-2458.	30.8	246
23	Mesoscopically Bi-continuous Agâ€“Au Hybrid Nanosponges with Tunable Plasmon Resonances as Bottom-Up Substrates for Surface-Enhanced Raman Spectroscopy. Chemistry of Materials, 2016, 28, 7673-7682.	6.7	45
24	External Water-Free Approach toward TiO₂ Nanoparticles Embedded in Biomass-Derived Nitrogen-Doped Carbon. ACS Sustainable Chemistry and Engineering, 2016, 4, 844-850.	6.7	19
25	Optimized dispersion of conductive agents for enhanced Li-storage performance of TiO2. Applied Surface Science, 2016, 388, 401-405.	6.1	5
26	Cancer Treatment: A Near Infrared Light Triggered Hydrogenated Black TiO₂ for Cancer Photothermal Therapy (Adv. Healthcare Mater. 10/2015). Advanced Healthcare Materials, 2015, 4, 1576-1576.	7.6	3
27	A Biomineralization Strategy for â€œNetâ€•Like Interconnected TiO₂ Nanoparticles Conformably Covering Reduced Graphene Oxide with Reversible Interfacial Lithium Storage. Advanced Science, 2015, 2, 1500176.	11.2	19
28	A Near Infrared Light Triggered Hydrogenated Black TiO₂ for Cancer Photothermal Therapy. Advanced Healthcare Materials, 2015, 4, 1526-1536.	7.6	326
29	Integrating the hierarchical structure with well-dispersed conductive agents to realize synergistically enhanced electrode performance. Journal of Materials Chemistry A, 2015, 3, 10275-10283.	10.3	10
30	Biomineralization: A Biomineralization Strategy for â€œNetâ€•Like Interconnected TiO2 Nanoparticles Conformably Covering Reduced Graphene Oxide with Reversible Interfacial Lithium Storage (Adv. Sci.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	11.2	0
31	Biomimetic layer-by-layer deposition assisted synthesis of Cu, N co-doped TiO₂nanosheets with enhanced visible light photocatalytic performance. Dalton Transactions, 2014, 43, 14054.	3.3	18
32	Slightly hydrogenated TiO₂ with enhanced photocatalytic performance. Journal of Materials Chemistry A, 2014, 2, 12708-12716.	10.3	188
33	Biomimetic layer-by-layer Co-mineralization approach towards TiO2/Au nanosheets with high rate performance for lithium ion batteries. Nanoscale, 2013, 5, 10472.	5.6	23
34	Bio-inspired synthesis of titania with polyamine induced morphology and phase transformation at room-temperature: Insight into the role of the protonated amino group. Dalton Transactions, 2013, 42, 12179.	3.3	21
35	Understanding the fast lithium storage performance of hydrogenated TiO2 nanoparticles. Journal of Materials Chemistry A, 2013, 1, 14507.	10.3	138
36	Protein-Mediated Layer-by-Layer Synthesis of TiO₂(B)/Anatase/Carbon Coating on Nickel Foam as Negative Electrode Material for Lithium-Ion Battery. ACS Applied Materials & Interfaces, 2013, 5, 3631-3637.	8.0	38

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37	Synthesis of Anatase TiO₂ Nanosheets with Enhanced Pseudocapacitive Contribution for Fast Lithium Storage. ACS Applied Materials & Interfaces, 2013, 5, 6285-6291.	8.0	92
38	Biomimetic synthesis of titania with chitosan-mediated phase transformation at room temperature. Journal of Materials Chemistry, 2011, 21, 10755.	6.7	13
39	Stability, electrochemical behaviors and electronic structures of iron hydroxyl-phosphate. Materials Chemistry and Physics, 2010, 123, 28-34.	4.0	10
40	Proteinâ€Mediated Synthesis of Nanostructured Titania with Different Polymorphs at Room Temperature. Advanced Materials, 2010, 22, 1258-1262.	21.0	35
41	An Electrocatalyst for Methanol Oxidation in DMFC: PtBi/XC-72 with Pt Solid-Solution Structure. Journal of the Electrochemical Society, 2010, 157, B580.	2.9	16
42	Influence of the surfactant and temperature on the morphology and physico-chemical properties of hydrothermally synthesized composite oxide BiVO4. Materials Chemistry and Physics, 2009, 114, 69-72.	4.0	51
43	Methanol-tolerant MoN electrocatalyst synthesized through heat treatment of molybdenum tetraphenylporphyrin for four-electron oxygen reduction reaction. Journal of Power Sources, 2008, 177, 296-302.	7.8	78
44	Coating of multi-walled carbon nanotube with SnO2 films of controlled thickness and its application for Li-ion battery. Journal of Power Sources, 2008, 184, 432-436.	7.8	89
45	The effects of different acids on the preparation of TiO2 nanostructure in liquid media at low temperature. Materials Chemistry and Physics, 2008, 111, 313-316.	4.0	31
46	Coating of multi-walled carbon nanotubes with SnO2 films of controlled thickness. Materials Letters, 2008, 62, 2855-2857.	2.6	5
47	Studies on the electrocatalytic properties of PtRu/C-TiO2 toward the oxidation of methanol. Journal of Alloys and Compounds, 2008, 450, 148-151.	5.5	33
48	One-Pot Synthesis of Carbon Nanotube@SnO₂â^'Au Coaxial Nanocable for Lithium-Ion Batteries with High Rate Capability. Chemistry of Materials, 2008, 20, 6951-6956.	6.7	160
49	Preparation and Li-Intercalation Properties of Mesoporous Anatase-TiO[sub 2] Spheres. Electrochemical and Solid-State Letters, 2007, 10, A77.	2.2	20
50	Facile Synthesis of Coâ^'Pt Hollow Sphere Electrocatalyst. Chemistry of Materials, 2007, 19, 1840-1844.	6.7	142
51	Reply to Comment on â€œSynthesis of Ordered Intermetallic PtBi2Nanoparticles for Methanol-Tolerant Catalyst in Oxygen Electroreductionâ€• Chemistry of Materials, 2007, 19, 1530-1530.	6.7	1
52	Electrocatalytic Hydrogenation of 4-Chlorophenol on the Glassy Carbon Electrode Modified by Composite Polypyrrole/Palladium Film. Journal of Physical Chemistry B, 2006, 110, 4863-4868.	2.6	64
53	Synthesis of Ordered Intermetallic PtBi2Nanoparticles for Methanol-Tolerant Catalyst in Oxygen Electroreduction. Chemistry of Materials, 2006, 18, 5746-5749.	6.7	44
54	Electrochemically reductive dechlorination of micro amounts of 2,4,6-trichlorophenol in aqueous medium on molybdenum oxide containing supported palladium. Electrochimica Acta, 2004, 50, 933-937.	5.2	43

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55	Electrochemically codeposited palladium/molybdenum oxide electrode for electrocatalytic reductive dechlorination of 4-chlorophenol. Electrochemistry Communications, 2004, 6, 268-272.	4.7	43
56	Boosting the catalytic performance of single-atom catalysts by tuning surface lattice expanding confinement. Chemical Communications, 0, , .	4.1	1