Wensheng Yang

List of Publications by Year
in descending order

50 papers	2,764 citations	201674 27 h-index	197818 49 g-index
50 all docs	50 docs citations	50 times ranked	5134 citing authors

#	Article	IF	Citations
1	Formation of Stable Phosphorusâ€“Carbon Bond for Enhanced Performance in Black Phosphorus Nanoparticleâ€“Graphite Composite Battery Anodes. Nano Letters, 2014, 14, 4573-4580.	9.1	764
2	Ultralong single crystalline V2O5 nanowire/graphene composite fabricated by a facile green approach and its lithium storage behavior. Energy and Environmental Science, 2011, 4, 4000.	30.8	252
3	Understanding the Selective Detection of Fe³⁺ Based on Graphene Quantum Dots as Fluorescent Probes: The K_{sp} of a Metal Hydroxide-Assisted Mechanism. Analytical Chemistry, 2017, 89, 12054-12058.	6.5	143
4	Carbon Nanorings and Their Enhanced Lithium Storage Properties. Advanced Materials, 2013, 25, 1125-1130.	21.0	121
5	Self-Assembled Peptide Hydrogel as a Smart Biointerface for Enzyme-Based Electrochemical Biosensing and Cell Monitoring. ACS Applied Materials & Interfaces, 2016, 8, 25036-25042.	8.0	110
6	Facile fabrication of yolkâ€“shell structured porous Siâ€“C microspheres as effective anode materials for Li-ion batteries. RSC Advances, 2014, 4, 71-75.	3.6	85
7	Monodisperse cobalt sulfides embedded within nitrogen-doped carbon nanoflakes: an efficient and stable electrocatalyst for the oxygen reduction reaction. Journal of Materials Chemistry A, 2016, 4, 11342-11350.	10.3	85
8	Density functional theory calculations for evaluation of phosphorene as a potential anode material for magnesium batteries. RSC Advances, 2018, 8, 7196-7204.	3.6	77
9	Vacancy in Ultrathin 2D Nanomaterials toward Sustainable Energy Application. Advanced Energy Materials, 2020, 10, 1902107.	19.5	76
10	Study on the Photochromism of Niâ€“Al Layered Double Hydroxides Containing Nitrate Anions. European Journal of Inorganic Chemistry, 2006, 2006, 2831-2838.	2.0	69
11	An integrated coreâ€“shell structured Li3V2(PO4)3@C cathode material of LIBs prepared by a momentary freeze-drying method. Journal of Materials Chemistry, 2012, 22, 5281.	6.7	67
12	A Co-N/C hollow-sphere electrocatalyst derived from a metanilic CoAl layered double hydroxide for the oxygen reduction reaction, and its active sites in various pH media. Nano Research, 2017, 10, 2508-2518.	10.4	62
13	Self-assembled dipeptideâ€“gold nanoparticle hybrid spheres for highly sensitive amperometric hydrogen peroxide biosensors. Biosensors and Bioelectronics, 2015, 66, 392-398.	10.1	60
14	Ultrathin layered double hydroxide nanosheets with Ni(III) active species obtained by exfoliation for highly efficient ethanol electrooxidation. Electrochimica Acta, 2018, 260, 898-904.	5.2	60
15	Synthesis of graphene nanosheets with good control over the number of layers within the two-dimensional galleries of layered double hydroxides. Chemical Communications, 2012, 48, 8126.	4.1	59
16	Seamless Signal Transduction from Three-Dimensional Cultured Cells to a Superoxide Anions Biosensor via In Situ Self-Assembly of Dipeptide Hydrogel. Analytical Chemistry, 2017, 89, 12843-12849.	6.5	42
17	Ultrasensitive electrochemiluminescence biosensor for the detection of tumor exosomes based on peptide recognition and luminol-AuNPs@g-C3N4 nanoprobe signal amplification. Talanta, 2021, 221, 121379.	5.5	42
18	Encapsulation of enzyme into mesoporous cages of metalâ€“organic frameworks for the development of highly stable electrochemical biosensors. Analytical Methods, 2017, 9, 3213-3220.	2.7	41

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19	Electrogenerated chemiluminescence behavior of peptide nanovesicle and its application in sensing dopamine. Biosensors and Bioelectronics, 2015, 63, 478-482.	10.1	39
20	Synthesis and electrocatalytic performance of MnO₂-promoted Ag@Pt/MWCNT electrocatalysts for oxygen reduction reaction. Journal of Materials Chemistry A, 2014, 2, 5371-5378.	10.3	36
21	Intercalated Co(OH)₂-derived flower-like hybrids composed of cobalt sulfide nanoparticles partially embedded in nitrogen-doped carbon nanosheets with superior lithium storage. Journal of Materials Chemistry A, 2017, 5, 3628-3637.	10.3	36
22	The effect of a Coâ€“Al mixed metal oxide coating on the elevated temperature performance of a LiMn2O4 cathode material. Journal of Power Sources, 2009, 189, 1147-1153.	7.8	35
23	Black phosphorus quantum dots as novel electrogenerated chemiluminescence emitters for the detection of Cu²⁺. Chemical Communications, 2020, 56, 4680-4683.	4.1	34
24	Confinement Catalyst of Co₉S₈@N-Doped Carbon Derived from Intercalated Co(OH)₂ Precursor and Enhanced Electrocatalytic Oxygen Reduction Performance. ACS Applied Materials & Interfaces, 2020, 12, 33740-33750.	8.0	34
25	Facile fabrication of Chinese lantern-like MnO@Nâ€“C: a high-performance anode material for lithium-ion batteries. RSC Advances, 2014, 4, 23027-23035.	3.6	31
26	Effect of precursor structures on the electrochemical performance of Ni-rich LiNi0.88Co0.12O2 cathode materials. Electrochimica Acta, 2018, 270, 319-329.	5.2	29
27	Chemical power source based on layered double hydroxides. Journal of Solid State Electrochemistry, 2015, 19, 1933-1948.	2.5	28
28	Amperometric sensing of hydrogen peroxide via an ITO electrode modified with gold nanoparticles electrodeposited on a CoMn-layered double hydroxide. Mikrochimica Acta, 2017, 184, 3989-3996.	5.0	27
29	Synthesis from a layered double hydroxide precursor for a highly efficient oxygen evolution reaction. Inorganic Chemistry Frontiers, 2019, 6, 1793-1798.	6.0	21
30	One-time sintering process to synthesize ZrO₂-coated LiMn₂O₄ materials for lithium-ion batteries. RSC Advances, 2018, 8, 16753-16761.	3.6	19
31	Simultaneous detection of multiple neuroendocrine tumor markers in patient serum with an ultrasensitive and antifouling electrochemical immunosensor. Biosensors and Bioelectronics, 2021, 194, 113603.	10.1	19
32	Effects of Oxygen Pressurization on Li⁺/Ni²⁺ Cation Mixing and the Oxygen Vacancies of LiNi_{0.8}Co_{0.15}Al_{0.05}O₂ Cathode Materials. ACS Applied Materials & Interfaces, 2022, 14, 31851-31861.	8.0	17
33	Nickel Nanoflowers with Controllable Cation Vacancy for Enhanced Electrochemical Nitrogen Reduction. ACS Applied Materials & Interfaces, 2022, 14, 28033-28043.	8.0	14
34	Self-Assembling Peptide Artificial Enzyme as an Efficient Detection Prober and Inhibitor for Cancer Cells. ACS Applied Bio Materials, 2019, 2, 2185-2191.	4.6	13
35	Synthesis and high-rate performance of spinel Li4Ti5O12 with coreâ€“shell hierarchical macroâ€“mesoporous structure. New Journal of Chemistry, 2014, 38, 1173.	2.8	12
36	Highly dispersed palladium nanoparticles generated in situ on layered double hydroxide nanowalls for ultrasensitive electrochemical detection of hydrazine. Analytical Methods, 2017, 9, 6629-6635.	2.7	12

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37	Highly Sensitive and Selective Determination of Dopamine Based on Graphite Nanosheet-Nafion Composite Film Modified Electrode. Electroanalysis, 2010, 22, 908-911.	2.9	11
38	A Selfâ€Assembled Fmocâ€Diphenylalanine Hydrogelâ€Encapsulated Pt Nanozyme as Oxidaseâ€•and Peroxidaseâ€Like Breaking pH Limitation for Potential Antimicrobial Application. Chemistry - A European Journal, 2022, 28, .	3.3	11
39	Studies on structure and electrochemical properties of pillared Mâ€“MnO2 (M=Ba2+, Sr2+, ZrO2+). Journal of Solid State Electrochemistry, 2007, 11, 1157-1162.	2.5	10
40	Rigid TiO_{2â^'x}coated mesoporous hollow Si nanospheres with high structure stability for lithium-ion battery anodes. RSC Advances, 2018, 8, 15094-15101.	3.6	10
41	Surface modification of LiCo1/3Ni1/3Mn1/3O2 with CoAl-MMO for lithium-ion batteries. Journal of Materials Science, 2012, 47, 4205-4209.	3.7	7
42	Synthesis of high-energy-density LiMn2O4 cathode through surficial Nb doping for lithium-ion batteries. Journal of Solid State Electrochemistry, 2018, 22, 3099-3109.	2.5	7
43	Simple Strategy for Synthesizing LiNi_{0.8}Co_{0.15}Al_{0.05}O₂ Using CoAl-LDH Nanosheet-Coated Ni(OH)₂ as the Precursor: Dual Effects of the Buffer Layer and Synergistic Diffusion. ACS Applied Materials & Interfaces, 2021, 13, 29714-29725.	8.0	7
44	A simple electrochemiluminesecence aptasenor using a GCE/NCQDs/aptamers for detection of Pb. Environmental Technology (United Kingdom), 2022, 43, 2270-2277.	2.2	7
45	High-discharge-voltage lithium-rich layered-oxide cathode materials based on low oxygen vacancy. Dalton Transactions, 2019, 48, 3209-3213.	3.3	5
46	Direct electrochemistry and electrocatalysis of horseradish peroxidase in MnO2 nanosheet film. Science Bulletin, 2008, 53, 1152-1156.	9.0	4
47	Carbon Nanorings and Their Enhanced Lithium Storage Properties (Adv. Mater. 8/2013). Advanced Materials, 2013, 25, 1124-1124.	21.0	4
48	Comparison of electrochemical performance of LiNi_{1â^'x}Co_xO₂ cathode materials synthesized from coated (1â^'x)Ni(OH)₂@xCo(OH)₂ and doped Ni_{1â^'x}Co_x(OH)₂ precursors. RSC Advances, 2019, 9, 9079-9085.	3.6	4
49	Facile synthesis of nanostructured LiFePO4/C cathode material for lithium-ion batteries. Science Bulletin, 2012, 57, 4160-4163.	1.7	3
50	Synthesis of magnetic Fe₃O₄@Al³⁺ particles and its application in DNA extraction. Particulate Science and Technology, 0, , 1-8.	2.1	3