

河南科技

学术理论研究报告

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9	Metal-organic frameworks (MOFs) based electrochemical biosensors for early cancer diagnosis in vitro	COORDINATION CHEMISTRY REVIEWS	2021, 439 213948	
10	Self-catalyzed growth of Zn/Co-N-C carbon nanotubes derived from metal-organic frameworks as efficient oxygen reduction catalysts for Zn-air battery	SCIENCE CHINA-MATERIALS	2021, 9.24	
11	Rational design and engineering of one-dimensional hollow nanostructures for efficient electrochemical energy storage	ANGEWANDTE CHEMIE-INTERNATIONAL EDITION	2021, 60(37): 20102-20118	
12	Ti ₂ O ₃ nanoparticles with Ti ³⁺ sites toward efficient NH ₃ electrosynthesis under ambient conditions	ACS APPLIED MATERIALS & INTERFACES	2021, 13(35): 41715-41722	
13	A treasure map for nonmetallic catalysts: optimal nitrogen and fluorine distribution of biomass-derived carbon materials for high-performance oxygen reduction catalysts	JOURNAL OF MATERIALS CHEMISTRY A	2021, 9(34): 18251-18259	
14	Phosphorized CoNi ₂ S ₄ yolk-shell spheres for highly efficient hydrogen production via water and urea electrolysis	ANGEWANDTE CHEMIE-INTERNATIONAL EDITION	2021, 60(42): 22885-22891	
15	Loading single-Ni atoms on assembled hollow N-rich carbon plates for efficient CO ₂ electroreduction	ADVANCED MATERIALS	2021: 2105204	
16	CoTe nanoparticle-embedded N-doped hollow carbon polyhedron: an efficient catalyst for H ₂ O ₂ electrosynthesis in acidic media	JOURNAL OF MATERIALS CHEMISTRY A	2021, 9(38): 21703-21707	
17	Greatly facilitated two-electron electroreduction of oxygen into hydrogen peroxide over TiO ₂ by Mn doping	ACS APPLIED MATERIALS & INTERFACES	2021, 13(39): 46659-46664	
18	A MnS/FeS ₂ heterostructure with a high degree of lattice matching anchored into carbon skeleton for ultra-stable sodium-ion storage	JOURNAL OF MATERIALS CHEMISTRY A	2021, 9(42): 24024-24035	
19	Ternary strategy enabling high-performance organic solar cells with optimized film morphology and reduced nonradiative energy loss	SOLAR RRL	2021, 5(12), 2100806	

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20	High-efficiency electrohydrogenation of nitric oxide to ammonia on a Ni ₂ P nanoarray under ambient conditions	JOURNAL OF MATERIALS CHEMISTRY A	2021, 9(43): 24268-24275	
21	High-Performance Electrochemical NO Reduction into NH ₃ by MoS ₂ Nanosheet	ANGEWANDT E CHEMIE-INTERNATIONAL EDITION	2021, 60(48): 25263-25268	
22	Electrochemical two-electron O ₂ reduction reaction toward H ₂ O ₂ production: using cobalt porphyrin decorated carbon nanotubes as a nanohybrid catalyst	JOURNAL OF MATERIALS CHEMISTRY A	2021, 9(46): 26019-26027	

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