

## 材化学院2025年论文成果

序号	名称	刊物名称	作者	收录情况
1	Study on hydration properties of composite gypsum: Effect of different forms of soluble phosphorus on the hydration properties of natural hard gypsum composites with hemihydrate gypsum	Construction and Building Materials	丁益	中科院一区
2	Utilization of hemihydrate phosphogypsum: Influence of different amino acids on the hydration of hemihydrate gypsum	Construction and Building Materials	丁益	中科院一区
3	LaserProgrammed Spatial Relay Catalysis on Co—Ag Dual Heterojunctions for Efficient NitratetoAmmonia Conversion via Migratory *NO <sub>2</sub>	Angewandte Chemie International	耿竞	中科院一区
4	Panchromatic fluorescent tunable waterborne polyurethanes based on Eu (III), Tb(III) and Zn(II)	Dyes and Pigments	胡先海	中科院一区
5	Interfacedriven electronic modulation enhances US coordination in carbonconfined CoMo sulfide heterojunctions for electrochemical uranium	Chemical Engineering Journal	金震	中科院一区
6	Fluorinecontaining counterions as catalysts triggering the size transformation of copper	Inorganic Chemistry	李浩	中科院一区
7	Nanoclusterbased aggregates: Assembled forms, driving forces, and structurerelated properties	Coordination Chemistry	李浩	中科院一区
8	Hyaluronate molecular layer with capturedeposition mechanism for durable zinc metal anode	Chemical Engineering	李琼光	中科院一区
9	The construction of a stable physical – chemical multi-crosslinking structure through a simplified FROMP strategy synergistically enhances the flame retardancy and mechanical properties of	Advanced Composites and Hybrid Materials	刘文秀	中科院一区
10	Ca/Mg hydroxide preactivated micro tuff powder for ultrahigh performance concrete manufacturing	Construction and Building	马瑞	中科院一区
11	Numerical characterization of the geometric shape of coral sand by particle shaping and study on the properties of graded composite coral fine aggregate	Composites Part B	王爱国	中科院一区
12	High performance polydicyclopentadiene engineering materials with intrinsic flame retardancy: flexible copolymerization of flameretardant elements and multiple interactions	Polymer Degradation and Stability	王平	中科院一区
13	Rapid Charge Extraction via Hole and Electron Transfer Layers on Cu <sub>2</sub> O Photocathode for Stable and Efficient Photoelectrochemical Water Reduction	Advanced Science	王秀芳	中科院一区
14	Engineering surface defect active sites in SnS <sub>2</sub> nanosheets with electrondonating groups for efficient photoelectrochemical water splitting	Journal of Catalysis	王秀芳	中科院一区

15	Research on the preparation and properties of ceramsite sand from desert sand synergistic multivariate industrial solid waste	Construction and Building Materials	王月明	中科院一区
16	AntiPerovskite Type Ni <sub>3</sub> InC <sub>0.5</sub> Anchored on Defective Nano DiamondGraphene for Highly Efficient Acetylene SemiHydrogenation	Adv. Mater. Funct.	许实龙	中科院一区
17	Cascade Synthesis of Intermetallic PtZn Electrocataysts for Practical Fuel Cells	Adv. Mater. Funct.	许实龙	中科院一区
18	An investigation of the structural and performance degradation of lightweight ultrahigh performance concrete under vehiclebridge coupling vibration: Phases distribution and interfacial bonding	Construction and Building Materials	杨军	中科院一区
19	The preparation of low shrinkage radiation shielding ultrahigh performance concrete: Comparison between barium aluminosilicate ceramsite and super absorbent polymer	Construction and Building Materials	杨军	中科院一区
20	Proteinencapsulationdriven highperformance luminogen for threephoton imaging of deep tumor	Dyes and Pigments	杨明娣	中科院一区
21	Effect of expansive agent on lightweight microexpansive ultrahigh performance concrete: Properties, microstructure, and interfacial bonding	Construction and Building Materials	张高展	中科院一区
22	Combination of metalpolyphenol hybrid interfacial engineering and flocculation assembly strategy to boost the fire retardancy and smoke/ toxicity suppression of polyurethane foam	Polymer Degradation and Stability	张佳燕	中科院一区
23	Fundamental investigation on a new methodology to fabricate thin ion gel membranes for CO <sub>2</sub> separation	Separation and Purification Technology	张劲辉	中科院一区
24	Biofouling/acid resistant nanofiltration membranes interfacially polymerized with nickeldoped carbon dots for highly efficient removal and realtime monitoring of chromate in wastewater	Journal of Membrane Science	邹文生	中科院一区
25	Microwaveassisted synthesis of CdS/metal–organic framework composites for enhanced removal of ciprofloxacin from wastewater	Inorganic Chemistry Communications	丁益	中科院二区
26	Effect of aspartic acid on the hydration process and setting performance of hemihydrate gypsum under alkaline conditions	Journal of Materials Research and	丁益	中科院二区
27	Microwaveassisted synthesis of Ag/ZnO/diatomite composites for photocatalytic degradation of gaseous toluene	Inorganic Chemistry Communications	丁益	中科院二区
28	Bi <sub>2</sub> O <sub>2</sub> CO <sub>3</sub> /NiFeLDH heterojunction as a photoassisted electro catalyst for efficient oxygen evolution reaction	Separation and Purification Technology	董伟伟	中科院二区
29	Efficient hydrogenation of ketones and aldehydes catalysed by a welldefined PNNP – rhenium	Dalton Transactions	方霄龙	中科院二区

30	Ambient pressure selective hydrogenation of unsaturated aldehydes and ketones into unsaturated alcohols in the water phase	Dalton Transactions	方霄龙	中科院二区
31	A novel fluorescent waterborne polyurethane based Sm (III) ternary complex improves plant growth in light environments and promotes plant growth	Journal of Photochemistry & Photobiology, A: Chemistry	胡先海	中科院二区
32	Dual regulation strategy: Chromium doped FeCo <sub>2</sub> O <sub>4</sub> @CoFeLDH heterostructures as superior bifunctional catalysts for efficient green hydrogen	Journal of Environmental Chemical	解文杰	中科院二区
33	Magnetic Fe <sub>3</sub> O <sub>4</sub> @AuPd/PDA nanospheres exhibit enhanced catalytic effects and photothermal – magnetic coupling antibacterial properties?	Dalton Transactions	金杰	中科院二区
34	Vacancy engineered Zn <sub>0.5</sub> Cd <sub>0.5</sub> S nanosheets for photocatalytic hydrogen evolution	International Journal of	金震	中科院二区
35	Graphene modified C/C composites for enhanced directional thermal conductivity	Journal of Materials Research and	金震	中科院二区
36	Revealing the synergistic role of the CoCu alloy and CN derived from a bimetallic MOF in promoting photoelectrocatalytic water oxidation	Journal of Materials Chemistry A	李萍	中科院二区
37	Phase synergy and size dependent regulation in MoSe <sub>2</sub> for enhanced hydrogen evolution reaction	International Journal of	李钦	中科院二区
38	Robust porous PANMIL101(Fe) nanofiber composite membranes for highly selective phosphate removal and recovery from water	Separation and purification technology	李亚茹	中科院二区
39	Preparation and application of the novel UV curable polyurethane acrylate coatings with downshifting luminescence	Progress in Organic Coating	刘瑾	中科院二区
40	Enhancement of artificial tuff sand by permeated nano crystallization and the application on ecological UHPC as aggregate	Case Studies in Construction Materials	马瑞	中科院二区
41	The properties improvement of UHPC incorporation cellulose fiber and the autogenous shrinkage reduction mechanism with internal curing	Journal of Materials Research and	马瑞	中科院二区
42	Preparation of novel pn heterogeneous Ag <sub>2</sub> O/MnO <sub>2</sub> composites and photocatalytic degradation of gaseous toluene	Journal of Environmental Chemical	任启芳	中科院二区
43	Study on the mechanical properties and sulfate resistance of desert sand supersulfated cement mortar with different curing methods	Journal of Building Engineering	孙道胜	中科院二区
44	An ESERS sensor with pyroelectric effect for ultrasensitive detection of melamine in milk	Microchemical Journal	孙梅	中科院二区
45	From porous coral to dense coral concrete: Ultra high performance geopolymer based concrete via coral sand gradation optimization and simplex	Case Studies in Construction Materials	王爱国	中科院二区

46	基于前端开环易位聚合的本征阻燃聚双环戊二烯的制备及性能研究	高分子学报	王平	中科院二区
47	Poly(lactide)/poly(butylene adipatecoterephthalate)/carbon nanotubes composites with robust mechanical properties,	International Journal of Biological	王平	中科院二区
48	Constructing robust Cu and P Lewis acidbase pair sites on tubular gC3N4 for promoting photocatalytic reduction of CO2 to CH4	Carbon	王秀芳	中科院二区
49	Selective rejection and dynamic monitoring of fluorinon in wastewater by boric acidfunctionalized carbon dots integrated	Separation and Purification Technology	王亚琴	中科院二区
50	Enhancing energy storage performance of BNTbased ceramics under moderate fields through collaborative optimization of phase competition	Ceramics International	吴修胜	中科院二区
51	Achieving ultrahigh energy storage density under moderate electric field strength by enhancing the breakdown field strength and polarization of Na0.5Bi0.5TiO3based ceramics	Ceramics International	吴修胜	中科院二区
52	Construction of double Sscheme heterojunction in MIL125(Ti)/ZnIn2S4/ ZnS QDs to improve interfacial charge transfer and reduction potential for photocatalytic hydrogen production	Fuel	夏静静	中科院二区
53	Preparation and Electrochemical Performance of NDoped HxV2O5/CeVO4 Composite Films as Stable Cathodes for Aqueous ZinIonBatteries	Langmuir	徐海燕	中科院二区
54	PreModulation of NH4+ to Synthesize Composite NDoped FeVO4/Fe2V4O13/HxV2O5 Nanosheets as Film Electrodes: With Dual Fe/V Redox Sites	Langmuir	徐海燕	中科院二区
55	Facilitating singlepass rolling on ascast AZ91 alloy by rotarydie equal channel angular pressing	Journal of Materials Research and	徐琼	中科院二区
56	Developing a heterostructured SiCp/AZ91 composite with enhanced mechanical properties by multipass equal channel angular pressing and	Journal of Alloys and Compounds	徐琼	中科院二区
57	Polyvinyl Alcohol Films Based on Supramolecular Flame Retardant: Towards Simultaneous Enhancement of Flame Retardancy, Mechanical	Journal of Vinyl and Additive Technology	徐文总	中科院二区
58	The influence mechanism of radiation shielding functional ceramsite on the performance and microstructure of UHPC	Case Studies in Construction Materials	杨军	中科院二区
59	Performance optimization of lowcarbon phosphogypsum foam concrete: Influence	Journal of Building	张高展	中科院二区
60	Noscale insights on structure and properties of C(A)SH gel in cementitious materials under sulfate attack	Case Studies in Construction Materials	张高展	中科院二区

61	Investigation on mechanical properties of expansive lightweight aggregate ultra high performance concrete filled steel tube short columns: Axial compression and interfacial bonding performance	Case Studies in Construction Materials	张高展	中科院二区
62	Effect of lightweight aggregate prewetting degree on the chloride ion permeability of ultrahigh	Journal of Building	张高展	中科院二区
63	Green and facile fabrication of highly fire resistant and smoke suppressive nanocoatings via a biobased polyphenols mediated oxidative/Schiff base dualcrosslinking strategy	Progress in Organic Coatings	张佳燕	中科院二区
64	An interpenetrating polymernetworkbased tough ion gel with high humidity resistance for sensitive human motion detection	Journal of Materials Chemistry A	张劲辉	中科院二区
65	Environmentally adaptable Fe/Pd bimetallic catalysts immobilized in ZIF8 for efficient degradation of sulfadiazine through dualpathway	Journal of Environmental Management	赵东林	中科院二区
66	Graphene oxide supported SnZVI to activate persulfate for effective degradation of pnitrophenol: Performance, mechanism and toxicity evolution	Journal of Water Process Engineering	赵东林	中科院二区
67	Zeolitic imidazolate framework cellulose loading GR(II)/Cu for efficient Cr (VI) removal over a wide pH range from water: Combined insights of capture performance and potential mechanism analysis	International Journal of Biological Macromolecules	赵东林	中科院二区