

材料科学与工程学院 2015 年科研成果列表

1、SCI 论文

2015 年已出版 SCI 收录论文 82 篇。

号	第一作者	论文题目	发表刊物/论文集
1	王芳	Interfacial properties of the enhanced visible-light plasmonic Ag/Bi ₂ WO ₆ (0 0 1) nanocomposite	Applied Surface Science
2	周明	Studies on Foam Flooding for Saline Reservoirs after Polymer Flooding	Journal of Petroleum Science and Engineering
3	张睿	Crystallization Kinetics of Functionallized Fe ₃ O ₄ Nanoparticles /Ethylene-vinyl Acetate Copolymer Nanocomposite Adhesives	Journal of Macromolecular Science Part B – Physics
4	岳杰	Thermal curing of novel carborane-containing phenylethynyl terminated imide oligomers	RSC Advances
5	李星	Enhanced Electrochemical Performance of Zr-Modified Layered LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ Cathode Material for Lithium-Ion Batteries	ChemElectroChem
6	张睿	Non-Isothermal Crystallization Behaviors of Ethylene Vinyl Acetate Copolymer and Ethylene	Journal of Macromolecular Science, Part B Physics
7	赵春霞	Flame retardant and toughening mechanisms of core-shell microspheres	RSC Advances
8	杨满	Synthesis of a hydrophilic acrylic ester resin and its adsorption towards phenol from aqueous solutions	ENVIRONMENTAL ENGINEERING SCIENCE
9	睦乐萍	An asymmetric supercapacitor with good electrochemical	Electrochimica Acta

		performances based on Ni(OH) ₂ /AC/CNT and AC	
10	潘勇	Relationship between Si concentration and mechanical properties of Nb-Si compounds: A first-principles study	Materials & Design
11	Qiuxiang Wen	Preparation of nano C-ZnO/SnO ₂ composite photoanode via a two-step solid state reaction with high efficiency for DSSCs	RSC Advances
12	周明	Synthesis and Surface Active Properties of tri[(N-alkyl-N-ethyl-N-Sodium carboxymethyl)-2-Ammonium bromide ethylene]Amines	Journal of Surfactants and Detergents
13	潘勇	Influence of B Concentration on the Structural Stability and Mechanical Properties of Nb-B Compounds	Journal of Physical Chemistry C
14	李珂怡	Investigation of adsorption dynamics of demulsifier on asphaltene	Colloid Polym Sci
15	睦乐萍	Supercapacitive behavior of an asymmetric supercapacitor based on Ni(OH) ₂ /XC-72 composite	New Journal of Chemistry
16	潘勇	Interfacial stability, electronic structure and bond characteristics of Pt ₃ Zr (111)/Pt(111) interfaces: A first-principles study	Computational Materials Science
17	任呈强	Electrochemical Investigation on Crevice Corrosion of P110 Steel by Using One-Dimensional Array Electrode	International Journal of Electrochemical Science
18	唐水花	Preparation of Fe-N-Carbon Nanocoils as Catalyst for Oxygen Reduction Reaction	International Journal Electrochemical Science
19	李明	Contamination of cement slurries with diesel-based drilling fluids in a shale gas well	Journal of Natural Gas Science and Engineering
20	王斌	Investigations on the crack formation and propagation in the dissimilar pipe welds involving L360QS and N08825	Engineering Failure Analysis

21	蔡术威	Interaction between HPAM and urea in aqueous solution	Iranian Polymer Journal
22	赵梓俨	Synthesis and detection the thermal expansion of CdSe quantum dots from room temperature to 700 degree	Journal of nano research
23	潘勇	Vacancy induced brittle-to-ductile transition of Nb ₅ Si ₃ alloy from first-principles	Materials & Design
24	潘勇	Iridium concentration driving the mechanical properties of iridium-aluminum compounds	Journal of Alloys and Compounds
25	王芳	Topochemical transformation of low-energy crystal facets to high-energy facets: a case from Bi ₂ O ₂ CO ₃ {001} facets to β-Bi ₂ O ₃ {001} facets with improved photocatalytic oxidation of NO	CrystEngComm
26	潘勇	Phase stability and mechanical properties of hafnium borides: A first-principles study	Computational Materials Science
27	何显儒	Macromolecular motions and hydrodynamic radius variation in dilute solutions under shear action	POLYMER INTERNATIONAL
28	周明	Synthesis of New Salt-Resistant Sulfonate Gemini Surfactants with Hydroxyl Groups	Journal of Surfactants and Detergents
29	李明	Hybrid effect of calcium carbonate whisker and carbon fiber on the mechanical properties and microstructure of oil well cement	Construction and Building Materials
30	Hongxu Zhang	Synthesis and performances of itaconic acid/ acrylamide/ sodium styrene sulfonate as a self-adapting retarder for oil well cement	RSC Advances
31	王平	ZL108 铝合金微弧氧化膜的 Na ₂ MoO ₄ 改性机理 /Na ₂ MoO ₄ Modifying Mechanism of Micro-arc Oxidation Coating on ZL108 Aluminum Alloy	稀有金属材料与工程/ Rare Metal Materials and Engineering

32	张睿	A review of the slow relaxation processes in the glass-rubber transition region of amorphous polymers	Rare Metal Materials and Engineering
33	黄韵	Polyhedral oligomeric silsesquioxane containing gel polymer electrolyte based on a PMMA matrix	RSC Advances
34	唐水花	High supercapacitive performance of Ni(OH) ₂ /XC-72 composite prepared by microwave-assisted method	RSC Advances
35	黄韵	A Gel Polymer Electrolyte Based on A Novel Synthesized Matrix of A Self-doped Polymer of h-poly(methyl methacrylate-vinyl trimethoxy silane)	RSC Advances
36	张钊	Ag-BiOCl Nanocomposites Prepared by Oxygen Vacancy Induced Photodeposition Method with Improved Visible Light Photocatalytic Activity	Materials Letters
37	任呈强	Two-metal Corrosion of Casing Pipe Joint in CO ₂ /H ₂ S Environment	International Journal of Electrochemical Science
38	潘勇	Structural stability and mechanical properties of Pt-Zr alloys from first-principles	Journal of Alloys and Compounds
39	刘婉颖	Longitudinal crack failure analysis of box of S135 tool joint in ultra-deep well	Engineering Failure Analysis
40	赵春霞	High-performance proton exchange membranes for direct methanol fuel cells based on a SPEEK/polybenzoxazine crosslinked structure	RSC Advances
41	周莹	W/Mo co-Doped BiVO ₄ for Photocatalytic Treatment of Polymer-Containing Wastewater in Oilfield	Supperlattices and Microstructures
42	李海敏	Enhanced Ferroelectric and Dielectric Properties of BiFeO ₃ -PbTiO ₃ Thin films Grown via a sol-gel multilayer deposition method	journal of sol-gel science and technology

43	白小东	Synthesis, Characterization and Performance Evaluation of the AM/AMPS/DMDAAC/SSS Quadripolymer as a Fluid Loss Additive for Water-Based Drilling Fluid	Journal of Applied Polymer Science
44	赵春霞	氧化石墨烯与 Si-P 低聚物在环氧树脂中的协同阻燃作用/Synergetic flame retardant effect of graphene oxide and Si-Poligomer epoxy	高分子学报/ Acta Polymerica Sinica
45	程小伟	Time effectiveness of the low temperature plasma surface modification of ground tire rubber powder	Journal of Adhesion Science and Technology
46	张睿	Non-isothermal crystallization kinetics and segmental dynamics of high density polyethylene/butyl rubber blends	polymer international
47	YU Jun	Bilayer structured nanowire-array and nanotube-cluster TiO ₂ photoanode for efficient dye-sensitized solar cells	Chem. Res. Chin. Univ.
48	林元华	A New Crescent-Shaped Wear Equation for Calculating Collapse Strength of Worn Casing Under Uniform Loading	JOURNAL OF PRESSURE VESSEL TECHNOLOGY-TRANSACTIONS OF THE ASME
49	彭竞秒	Hydrothermal Synthesis and Formation Mechanism of Photocatalytically Active SrTiO ₃ Nanocrystals Using Anatase TiO ₂ with Different Facets as a Precursor	CrystEngComm
50	武元鹏	High internal phase emulsion (HIPE) xerogels for enhanced oil spill recovery	Journal of Materials Chemistry A
51	任呈强	Physicochemical performance of FeCO ₃ films influenced by anions	RSC Advances
52	王芳	Electronic and optical properties of N-doped Bi ₂ O ₃ polymorphs for visible light-induced photocatalysis	Journal of Molecular Modeling
53	林元华	A New Crescent-Shaped Wear Equation for Calculating Collapse Strength of Worn Casing Under Uniform	Journal of Pressure Vessel Technology

		Loading. Journal of Pressure Vessel Technology	
54	王书亮	Thermodynamic Assessments of the Sc-M (M: Cr, Gd, Mo, W and Zr) Systems	JOURNAL OF PHASE EQUILIBRIA AND DIFFUSION
55	李明	Mechanical properties of oil well cement stone reinforced with hybrid fiber of calcium carbonate whisker and carbon fiber	Petroleum Exploration and Development
56	康小辉 (学)	A novel tri-layered photoanode of hierarchical ZnO, microspheres on 1D ZnO nanowire arrays for dyesensitized solar cells,	RSC Advances
57	赵春霞	磺化聚醚醚酮含硅二胺交联结构质子交换膜的制备与性能研究/Preparation and properties of SPEEK/DMS crosslinked proton exchange membranes	高分子学报/ Acta Polymerica Sinica
58	赵梓俨	Polyaniline-Decorated {001} Facets of Bi ₂ O ₂ CO ₃ Nanosheets: In Situ Oxygen Vacancy Formation and Enhanced Visible Light Photocatalytic Activity	ACS Applied Materials and Interfaces
59	张睿	Crystallization and molecular dynamics of ethylene-vinyl acetate copolymer/butyl rubber blends	RSC Advances
60	庄稼	Ce ³⁺ 和钼酸钠对 X80 钢的缓蚀协同效应/Synergistic inhibition of X80 steel corrosion by combination of cerium nitrate and sodium molydate	稀土/ Chinese Rare Earths
61	杨燕	Synthesis and Characterization of Gemini Surfactants with Two Sulfonate Groups, Two hydroxyl, and Two Lipophilic Alkyl Chains	Journal of surfactants and detergent
62	周莹	Polyaniline-Decorated {001} Facets of Bi ₂ O ₂ CO ₃ Nanosheets: In Situ Oxygen Vacancy Formation and Enhanced Visible Light Photocatalytic Activity	ACS Applied Materials & Interfaces

63	庄稼	A novel tri-layered photoanode of hierarchical ZnO, microspheres on 1D ZnO nanowire arrays for dyesensitized solar cells	RSC Advances
64	唐水花	High supercapacitive performance of Ni(OH) ₂ -XC-72 composite prepared by microwave-assisted method	RSC Advances
65	黄韵	A Gel Polymer Electrolyte Based on A Novel Synthesized Matrix of A Self-doped Polymer of h-poly(methyl methacrylate-vinyl trimethoxy silane).	RSC Advances.
66	黄韵	Polyhedral Oligomeric Silsesquioxane Compositd Gel Polymer Electrolyte Based on Matrix of PMMA.	RSC Advances
67	王书亮	Thermodynamic Assessments of the Au-Nd and Au-Dy Systems	Journal of Phase Equilibria and Diffusion
68	周明	Optimization of Preparing Poly (AM-DMDAAC)/MMT Superabsorb -ent Nanocomposite by Orthogonal Experiment	Polymer(Korea)
69	王平	ZL108 铝合金微弧氧化膜 Na ₂ MoO ₄ 改性机理研究 /Na ₂ MoO ₄ Modifying Mechanism of Micro-arc Oxidation Coating on ZL108 Aluminum Alloy	稀有金属材料与工程/ Rare Metal Materials and Engineering
70	周莹	Topochemical transformation of low-energy crystal facets to high-energy facets: a case from Bi ₂ O ₂ CO ₃ {001} facets to β-Bi ₂ O ₃ {001} facets with improved photocatalytic oxidation of NO	CrystEngComm
71	周莹	W/Mo co-doped BiVO ₄ for photocatalytic treatment of polymer-containing wastewater in oilfield	Supperlattices and Microstructures
72	庄稼	Synthesis and performance of itaconic acid/acrylamide/sodium styrene sulfonate as a self-adapting	RSC Advances

		retarder for oil well cement	
73	黄本生	Preparation and Characterization of Ceramic Film on Drilling Pipe Joint	RARE METAL MATERIALS AND ENGINEERING
74	林元华	New high collapse model to calculate collapse strength for casing.	Engineering Failure Analysis
75	林元华	Porphyrins as Corrosion Inhibitors for N80 Steel in 3.5% NaCl Solution: Electrochemical, Quantum Chemical, QSAR and Monte Carlo Simulations Studies	Molecules
76	林元华	Gingko biloba fruit extract as an eco-friendly corrosion inhibitor for J55 steel in CO ₂ saturated 3.5% NaCl solution.	Journal of Industrial and Engineering Chemistry
77	林元华	A Novel Dynamic Model for Predicting Pressure Wave Velocity in Four-Phase Fluid Flowing along the Drilling Annulus	MATHEMATICAL PROBLEMS IN ENGINEERING
78	林元华	Use of HPHT Autoclave to Determine Corrosion Inhibition by Berberine extract on Carbon Steels in 3.5% NaCl Solution Saturated with CO ₂	International Journal of Electrochemical Science
79	林元华	Effect of poly(methylmethacrylate-co-N-vinyl-2-pyrrolidone) polymer on J55 steel corrosion in 3.5% NaCl solution saturated with CO ₂	Journal of the Taiwan Institute of Chemical Engineers
80	林元华	Use of HPHT autoclave to determine corrosion inhibition effect of poly(methyl methacrylate-co-N-vinyl-2-pyrrolidone) on carbon steels in 3.5% NaCl solution saturated with CO ₂	CHINESE JOURNAL OF POLYMER SCIENCE
81	潘勇	First-principles investigation on hydrogen doping of PtAl ₂	Journal of Alloys and compounds

		alloy	
82	王斌	EBSD study on microstructure and texture of friction stir welded AA5052-O and AA6061-T6 dissimilar joint	Materials & Design

2、EI 论文

发表 EI 收录论文 24 篇。

序号	第一作者	论文题目	发表刊物/论文集
1	陈孝文	Effect of heat treatment on structure and properties of electroplated Fe-Ni-W alloys on S135 drill pipe steel	Materials Research Innovations
2	Hongxu Zhang	Modified Mechanism and Properties of Water-Soluble Sodium Silicate for Oil and Gas Field	Materials Science Forum
3	林元华	A Study on the Inhibition of J55 and P110SS Steel in 3.5% NaCl Solution Saturated with CO ₂ by Seed Extract of Momordica charantia (Karela)	Solid State Phenomena
4	杨军	快速凝固对 Fe-Mn-Si 系合金形状记忆效应及耐腐蚀性能的影响	材料热处理学报
5	杨军	激光焊对 Fe-Mn-Si 系形状记忆合金焊缝区组织和性能的影响	功能材料
6	武元鹏	花瓣状 Fe ₃ O ₄ /Bi ₂ O ₃ 复合粒子的制备及光催化活性	功能材料
7	尹小龙	原位聚合法制备的聚醚醚酮/膨胀石墨复合材料及性能	高分子材料科学与工程

8	张睿	非晶态聚合物玻璃态-橡胶转变及分子运动	高分子材料科学与工程
9	彭辉	Effects of Synthesis Temperature and Holding Time on the	Materials Science Forum
10	P.Peng	Effects of synthesis temperature and holding time on the electrochemical properties of LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ cathode material using rheological phase method.	Materials Science Forum
11	黄本生	Changes of Microstructure and Properties of G105 Drill Pipe in H ₂ S	Materials Science Forum
12	黄本生	Research on Fatigue Failure of Steel E4330 for Fluid Cylinder	Materials Science Forum
13	王书亮	Thermodynamic Study of Ag-Au-Gd, Tb Ternary Systems	Materials Science Forum
14	田晓宇	Microstructure and Properties of X100 High Strength Pipeline Steel	Materials Science Forum.
15	黄朋肖	In-situ Synthesis of Graphitized-carbon Coated Li ₄ Ti ₅ O ₁₂ /C Anode for High-rate Lithium Ion Batteries	Materials Science Forum
16	李星	Microstructure and Mechanical Properties of Laminated Buckypaper/SiC Composite	Materials Science Forum
17	武元鹏	Synthesis and Properties of the Poly(methyl methacrylate-acrylamide)	Materials Science Forum
18	武元鹏	Synthesis and Properties of the Poly(styrene-acrylic acid)	Materials Science Forum
19	黄朋肖	In Situ Synthesis of Graphitized-Carbon	Materials Science

		Coated Li ₄ Ti ₅ O ₁₂ /C Anode for High-Rate Lithium Ion Batteries	Forum
20	朱艳华	Ce ³⁺ 和钼酸钠对 X80 钢的缓释协同效应	稀土
21	邢云亮	功能型核壳微球对环氧树脂燃烧性能和力学性能的影响	高分子材料科学与工程
22	林元华	旋压整形器对 C110 变形套管整形的实验研究	天然气工业
23	李明	水镁石纤维对固井水泥石力学性能的增强效果及机理	天然气工业
24	李明	碳纤维油井水泥基复合材料的力学性能研究	复合材料学报