

## 江西省材料表面再制造工程技术研究中心

### 科研论文汇总表

序号	年度	完成人	论文名称	刊物名称	类别
1	2020	姚海龙	A Comparative Study of Pressureless Sintered Nanostructured Hydroxyapatite/TiO <sub>2</sub> Composites Prepared by Different TiO <sub>2</sub> Addition Methods	Journal of Nanoscience and Nanotechnology	SCI
2	2020	姚海龙	tructure, mechanical and bioactive properties of nanostructured hydroxyapatite/titania composites prepared by microwave sintering	Materials Chemistry and Physics	SCI
3	2020	余健	Rapid fabrication of pure p-type filled skutterudites with enhanced thermoelectric properties via a reactive liquid-phase sintering	Journal of Materials Science	SCI
4	2020	余健	Effects of nonstoichiometry on thermoelectric properties of CoSi-based materials	Journal of Materials Science-Materials in Electronics	SCI
5	2019	王洪涛	Surface nanocrystallization treatment of AZ91D magnesium alloy by cold spraying shot peening process	Surface and coating technology	SCI
6	2019	张梦贤	In situ Ti(C,N)-based cermets by reactive hot pressing: Reaction process, densification behavior and mechanical properties	Ceramic International	SCI
7	2019	张梦贤	In situ synthesis mechanism of ZrC-ZrB <sub>2</sub> /Cu composites prepared by SHS-casting method	International Journal of Applied Ceramic Technology	SCI
8	2019	陈清宇	Wear behavior of plasma sprayed hydroxyapatite bioceramic coating in simulated body fluid	Ceramics International	SCI
9	2019	陈清宇	Morphological, structural and mechanical characterization of cold sprayed hydroxyapatite coating	Surface and coating technology	SCI
10	2019	姚海龙	Microstructure and Corrosion Behavior of Thermal-Sprayed Hydroxyapatite Magnesium Composite Coating on the Surface of AZ91D Magnesium Alloy	Journal of Thermal Spray Technology	SCI
11	2019	姚海龙	Molecular dynamics simulation and experimental verification for bonding formation of solid-state TiO <sub>2</sub> nano-particles induced by high velocity collision	Ceramics International	SCI
12	2019	姚海龙	Microstructure and Corrosion Behavior of Thermal-Sprayed Hydroxyapatite Magnesium Composite Coating on the Surface of AZ91D Magnesium Alloy	Journal of Thermal Spray Technology	SCI
13	2019	姚海龙	Molecular dynamics simulation and experimental verification for bonding formation of solid-state TiO <sub>2</sub> nano-particles induced by high velocity collision	Ceramics International	SCI
14	2018	姚海龙	Comparative study of HA/TiO <sub>2</sub> and HA/ZrO <sub>2</sub> composite	Surface & Coatings Technology	SCI

			coatings deposited by high-velocity suspension flame spray (HVSFS)		
15	2018	姚海龙	Effect of Particle Size and Impact Velocity on Collision Behaviors Between Nano-Scale TiN Particles: MD Simulation	Journal of Nanoscience and Nanotechnology	SCI
16	2018	姚海龙	Improvement in mechanical properties of nano-structured HA/TiO <sub>2</sub> multilayer coatings deposited by high velocity suspension flame spraying (HVSFS)	Surface & Coatings Technology	SCI
17	2018	姚海龙	MD Simulation on Collision Behavior Between Nano-Scale TiO <sub>2</sub> Particles During Vacuum Cold Spraying	Journal of Nanoscience and Nanotechnology	SCI
18	2018	姚海龙	Microstructures and Properties of Warm-Sprayed Carbonated Hydroxyapatite Coatings	Journal of Thermal Spray Technology	SCI
19	2018	姚海龙	Microstructures, mechanical properties and electrochemical behaviors of nano-structured HA/Ti composite coatings deposited by high-velocity suspension flame spray (HVSFS)	Ceramics International	SCI
20	2018	罗琦	Enhancing photovoltaic performance of perovskite solar cells with silica nanosphere antireflection coatings	Solar Energy	SCI
21	2017	段兴凯	Effects of Ag-Doping on Thermoelectric Properties of Ca (2-x) Ag x Si Alloys	Journal of Electronic Materials	SCI
22	2017	纪良波	Process optimization of rolling for zincked sheet technology using response surface methodology and genetic algorithm	International Journal of Modern Physics B	SCI
23	2017	罗琦	Plasmonic Effects of Metallic Nanoparticles on Enhancing Performance of Perovskite Solar Cells	Acs Applied Materials & Interfaces	SCI
24	2016	王洪涛	原位自生 TiAl <sub>3</sub> 增强 Al 基复合材料的组织结构及形成机理	稀有金属材料与工程	SCI
25	2016	陈泉	Deposition behavior of nanostructured WC-23Co particles in cold spraying process	Materials and Manufacturing Processes	SCI
26	2015	纪岗昌	Deformation behaviors of cold-sprayed WC-Co particles	Journal of Thermal Spray Technology	SCI
27	2015	段兴凯	Enhanced thermoelectric properties of n-type Bi <sub>2</sub> Te <sub>2.7</sub> Se <sub>0.3</sub> by indium and sodium co-doping	Functional Materials Letters	SCI
28	2015	段兴凯	Influence of Ga-doping on the thermoelectric properties of Bi(2-x)GaxTe <sub>2.7</sub> Se <sub>0.3</sub> alloy	Progress in Natural Science Materials International	SCI
29	2015	段兴凯	Microstructure and thermoelectric properties of Bi <sub>0.5</sub> Na <sub>0.02</sub> Sb <sub>1.48-x</sub> In <sub>x</sub> Te <sub>3</sub> alloys fabricated by vacuum melting and hot pressing	Rare Metals	SCI
30	2015	段兴凯	Ga、K 双掺杂 P 型 Bi <sub>0.5</sub> Sb <sub>1.5</sub> Te <sub>3</sub> 材料的制备及热电性能	稀有金属材料与工程	SCI
31	2015	段兴凯	Ga、K 双掺杂对 N 型 Bi <sub>2</sub> Te <sub>2.7</sub> Se <sub>0.3</sub> 材料热电性能的影响	稀有金属材料与工程	SCI

32	2015	陈 泉	超音速火焰喷涂 TiB <sub>2</sub> -40Co 金属陶瓷涂层抗热震性能	稀有金属材料与工程	SCI
33	2014	王洪涛	Microstructure and properties of cold sprayed multimodal WC-17Co deposits	International Journal of Refractory Metals and Hard Material	SCI
34	2014	罗 琦	Large enhancements of NaYF <sub>4</sub> :Yb/Er/Gd nanord up conversion emissions via coupling with localized surface plasmon of Au film	Nanotechnology	SCI
35	2014	余 健	Enhanced thermoelectric performance of (Ba,In) double-filled skutterudites via randomly arranged micropores	Applied Physics Letters	SCI
36	2014	宋杰光	Effect of raw materials on the properties of ZrB <sub>2</sub> -YAG-Al <sub>2</sub> O <sub>3</sub> multi-phase ceramics	Journal of Ceramic Processing Research	SCI
37	2013	余 健	Rapid preparation and thermoelectric properties of Ba and In double-filled p-type skutterudite bulk materials	Scripta Materialia	SCI