

2016 年度代表性文章

序号	论文名称	发表刊物	所属学部	第一作者/通讯作者
1	Direct Oil Recovery from Saturated Carbon Nanotube Sponges	ACS Applied Materials & Interfaces	先进制造部	Xiying Li/ Huiling Duan
2	Underwater superhydrophobicity: Stability, design and regulation, and applications	Applied Mechanics Reviews	先进制造部	Yahui Xue/ Huiling Duan
3	Influence of fluid flow on the stability and wetting transition of submerged super hydrophobic surfaces	Soft Matter	先进制造部	Yaolei Xiang/ Huiling Duan
4	Receding dynamics of contact lines and size-dependent adhesion on microstructured hydrophobic surfaces	Soft Matter	先进制造部	Dandan Li/ Huiling Duan
5	Investigation of the thermo-mechanical behavior of neutron-irradiated Fe-Cr alloys by self-consistent plasticity theory	Journal of Nuclear Materials	先进制造部	Xiazi Xiao/ Huiling Duan
6	A mechanistic model for depth-dependent hardness of ion irradiated metals	Journal of Nuclear Materials	先进制造部	Xiazi Xiao/ Huiling Duan
7	A micromechanical model for nano-metallic-multilayers with helium irradiation	International Journal of Solids and Structures	先进制造部	Long Yu/ Hingling Duan
8	Energy-efficient braking torque control of robotic transtibial prosthesis	IEEE/ASME Transactions on Mechatronics	先进制造部	Qingning Wang
9	Noncontact capacitive sensing-based locomotion transition recognition for amputees with robotic transtibial prostheses	IEEE Transactions on Neural Systems and Rehabilitation Engineering	先进制造部	Qingning Wang
10	Robot-assisted rehabilitation of ankle plantar flexors spasticity: A 3-month study with proprioceptive neuromuscular facilitation	Frontiers in Neurorobotics	先进制造部	Qingning Wang
11	Surrogate model based iterative	Advances in	能源技术部	Haibin Chang/

	ensemble smoother for subsurface flow data assimilation.	Water Resources		Dongxiao Zhang
12	A Two-stage Adaptive Stochastic Collocation Method on Nested Sparse Grids for Multiphase Flow in Randomly Heterogeneous Porous Media	Journal of Computational Physics	能源技术部	Qinzhuo Liao/ Dongxiao Zhang
13	Impact of Adsorption on Gas Transport in Nanopores	Scientific Reports	能源技术部	Tianhao Wu/ Dongxiao Zhang
14	Direct Oil Recovery from Saturated Carbon Nanotube Sponges	ACS Applied Materials & Interfaces	能源技术部	Xiying Li / Dongxiao Zhang
15	A Fully Coupled Thermo-Hydro-Mechanical, Three-Dimensional Model for Hydraulic Stimulation Treatments	Journal of Natural Gas Science and Engineering	能源技术部	Sanbai Li/ Dongxiao Zhang
16	Numerical Simulation of Proppant Transport in Hydraulic Fracture with Upscaling CFD-DEM Method	Journal of Natural Gas Science and Engineering	能源技术部	Junsheng Zeng/ Dongxiao Zhang
17	Probabilistic Collocation Method for Strongly Nonlinear Problems: 3. Transform by Time	Water Resources Research	能源技术部	Qinzhuo Liao/ Dongxiao Zhang
18	Two-step cultivation for production of astaxanthin in <i>Chlorella zofingiensis</i> using a patented energy-free rotating floating photobioreactor (RFP)	Bioresource Technology	能源技术部	Zhao Zhang/ Feng Chen
19	Light enhanced the accumulation of total fatty acids (TFA) and docosahexaenoic acid (DHA) in a newly isolated heterotrophic microalga <i>Cryptocodinium</i> sp SUN	Bioresource Technology	能源技术部	Dongzhe Sun / Feng Chen
20	Biaxially Strained PtPb/Pt Core/Shell Nanoplate Boosts Oxygen Reduction Catalysis	Science	能源技术部	Lingzheng Bu/ Shaojun Guo
21	The marriage and integration of nanostructures with different dimensions for synergistic electrocatalysis	Energy & Environmental Science	能源技术部	Han Zhu/ Shaojun Guo
22	Tuning Multimetallic Ordered Intermetallic Nanocrystals for	Advanced Energy	能源技术部	Mingchuan Luo/ Shaojun Guo

	Efficient Energy Electrocatalysis	Materials		
23	Prolifera-Green-Tide as Sustainable Source for Carbonaceous Aerogels with Hierarchical Pore to Achieve Multiple Energy Storage	Advanced Functional Materials	环境技术部	Jinfeng Cui/Shaojun Guo
24	Double-Helix Structure in Carrageenan-Metal Hydrogels: A General Approach to Porous Metal Sulfides/Carbon Aerogels with Excellent Sodium Ion Storage	Angewandte Chemie International Edition	能源技术部	Baohao Li/Shaojun Guo
25	Efficient oxygen reduction catalysis by subnanometer Pt alloy nanowires	Science Advances	能源技术部	Kezhu Jiang/Shaojun Guo
26	Tuning the Aggregation/Disaggregation Behavior of Graphene Quantum Dots by Structure-Switching Aptamer for High-Sensitivity Fluorescent Ochratoxin A Sensor	Analytical Chemistry	能源技术部	Song Wang/Shaojun Guo
27	Transport solutions for cleaner air	Science	环境技术部	Frank J. Kelly/ Tong Zhu
28	Air pollutant emissions from Chinese households: a major and underappreciated ambient pollution source	Proceedings of the National Academy of Sciences	环境技术部	Jun Liu/ Tong Zhu
29	Distribution and sources of airpollutants in the North China Plain based on on-road mobile measurements	Atmospheric Chemistry and Physics	环境技术部	Yi Zhu/ Tong Zhu
30	Evaluating Vehicle Emission Control Policies using on-Road Mobile Measurements and Continuous Wavelet Transform: a Case Study during the Asia-Pacific Economic Cooperation Forum, China 2014	Atmospheric Chemistry and Physics	环境技术部	Ziqiang Tan / Tong Zhu
31	Observation of regional air pollutant transport between the megacity Beijing and the North China Plain	Atmospheric Chemistry and Physics	环境技术部	Yingruo Li/ Tong Zhu
32	Estimated adult mortality attributable to PM2.5 exposure in	Science of the Total	环境技术部	Jun Liu/ Tong Zhu

	China with assimilated PM2.5 concentrations based on a ground monitoring network	Environment		
33	Estimating adult mortality attributable to PM2.5 exposure in China with assimilated PM2.5 concentrations based on a ground monitoring network	Sci. Total Environ	环境技术部	Jun Liu/Tong Zhu