

物理与电子工程学院

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科研工作

科研项目



科研成果



科研成果

2014年以来代表性论文(JCR2区以上)

- ①Wang LingLi, et al. Capacitive humidity sensitivity of SnO₂:Sn thin film grown on silicon nanoporous pillar array. Sensors & Actuators B Chemical 229(2016):513-519.
- ②Li Zijiong, et al. Controlled synthesis of Ni(OH)₂/graphene composites and their transformation to NiO/graphene for energy storage. Electrochimica Acta 212(2016):390-398.
- ③Li Tao, et al. Effect of synthesizing temperatures on the microstructure and electrical property of CaCu₃Ti₄O₁₂ ceramics prepared by sol-gel process. Journal of Alloys & Compounds 684(2016):315-321.
- ④Gong Gaoshang, et al. Lead-free relaxor ferroelectric ceramics Sr_{4+x}Ca_{1-x}BiTi₃Nb₇O₃₀, with tunable transition temperature. Journal of Materials Science 51.15(2016):7336-7342.
- ⑤Xue Renzhong, et al. Effect of doping ions on the structural defect and the electrical behavior of CaCu₃Ti₄O₁₂ ceramics. Materials Research Bulletin 76(2016):124-132.
- ⑥Yang Yang, et al. Electronic structure and d_{x²-y²-wave superconductivity in FeS. Phys.Rev.B 93.10(2016):104514.}
- ⑦Dai Haiyang, et al. Studies on the structural, electrical and magnetic properties of Ce-doped BiFeO₃ ceramics. Journal of Alloys & Compounds

672(2016):182-189.

⑧Li Zijiong, et al. Ultrafast growth of carbon nanotubes on graphene for capacitive energy storage. *Nanotechnology* 27.2(2015):025401.

⑨Li Zijiong, et al. Effect of reaction temperature and time on the electrochemical properties of nickel hydroxide nanosheets. *Applied Surface Science* 383(2016):268-275.

⑩Wang Lingli, et al. Methanol sensing properties of honeycomb-like SnO₂ grown on silicon nanoporous pillar array. *Journal of Alloys & Compounds* 682(2016):170-175.

⑪Wang Lingli, et al. Morphology dependent field emission characteristics of ZnS/silicon nanoporous pillar array. *Applied Surface Science* 384(2016):530-533.

⑫Wang Yongqiang, et al. Phonon density of states of single-crystal SrFe₂As₂, across the collapsed phase transition at high pressure. *Phys.Rev.B*94.1(2016):014516.

⑬Dai Haiyang, et al. Effect of Eu, Ti co-doping on the structural and multiferroic properties of BiFeO₃ ceramics. *Ceramics International* 40.10(2014): 15617-15622.

⑭Li Zijiong, et al. Freestanding polyaniline nanorods grown on graphene for highly capacitive energy storage. *Nanotechnology* 26.6(2015):065401.

⑮Yang Kun, et al. Sucrose release from agar gels: Effects of dissolution order and the network inhomogeneity. *Food Hydrocolloids* 43(2015):100-106.

⑯Yang Kun, et al. Sucrose release from agar gels: Correlation with sucrose content and rheology. *Food Hydrocolloids* 43(2015):132-136.

⑰Li Zijiong, et al. 3D (Three-dimensional) sandwich-structured of ZnO (zinc oxide)/rGO (reduced graphene oxide)/ZnO for high performance supercapacitors. *Energy* 69.5(2014):266-271.

⑱Li Tao, et al. Effect of defect on the nonlinear and dielectric property of Ca_(1-x)Sr_xCu₃Ti₄O₁₂ ceramics synthesized by sol-gel process. *Journal of*

Alloys & Compounds 599.12(2014):145–149.

①⑨Wang Zheng, et al. The influence of agar gel texture on sucrose release. Food Hydrocolloids 36.36(2014):196-203.

②⑩Li Haining, et al. In situ crystallization of ionic liquid [Emim][PF₆] from methanol solution under high pressure. Journal of Physical Chemistry B118.29(2014):8684.

2014年以来授权发明专利

①一种高强耐热铸造镁合金及制备方法, ZL 201410787879.9, 李子炯。

②镁合金复合表面防护处理设备与方法, ZL 201410343474.6, 李子炯。

③一种六方硒化铜纳米片的制备方法, ZL 201410253913.4, 李子炯。

④车轮踏面缺陷非接触式动态检测装置及其检测方法, ZL 201110361994.6, 张志峰。

⑤一种键合连接的硅基与砷化镓基的太阳电池, ZL 201510619638.8, 程学瑞。

2014年以来所获奖励

①氮化物半导体低维结构的光学性质, 河南省教育厅优秀科技成果奖一等奖, 豫教[2014]05396, 蒋逢春。

②大型工件直径在线光电检测系统, 河南省教育厅优秀科技成果奖二等奖, 豫教[2015]03407号, 张志峰。

③新型功能陶瓷高温超导/巨介电/多铁材料的设计、制备与改性, 河南省教育厅优秀科技成果奖一等奖, 豫教[2015]03283号, 陈镇平。

④高能量存储二维纳米材料制备的关键技术及应用, 河南省教育厅优秀科技成果奖一等奖, 豫教[2016]01543, 李子炯。

⑤棉花质量无损光电检测系统, 河南省教育厅优秀科技成果奖二等奖, 豫教[2016]01677号, 张志峰。

⑥列车轮对故障在线检测系统, 河南省教育厅优秀科技成果奖二等奖, 豫教[2016]01676号, 张志峰。

⑦棉花质量无损检测技术开发及应用, 河南省科学技术进步奖三等奖, 张志峰。