



所属学院 材料科学与工程学院

学科领域 材料科学与工程

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个人简介

魏杰，工学博士，研究员 / 博士生导师。2004 年 6 月博士毕业于四川大学；先后在韩国仁济大学和北京大学从事博士后研究工作；2004 年 7 月于华东理工大学（材料科学与工程学院）任助理研究员，2006 年 9 月任副研究员，2011 年 9 月任研究员，2012 年 3 月任博士生导师。

研究方向

生物材料

研究成果及主要发表文章

1. Xinglong Hu, Shiqi Mei, Fan Wang, Songchao Tang, Dong Xie, Chao Ding, Wenli Du, Jun Zhao*, Lili Yang*, Zhaoying Wu, Jie Wei*. A microporous surface containing Si₃N₄/Ta microparticles of PEKK exhibits both antibacterial and osteogenic activity for inducing cellular response and improving osseointegration. *Bioact Mater* 2021;6(10):3136-3149.
2. Xinglong Hu, Shiqi Mei, Fan Wang, Jun Qian, Dong Xie, Jun Zhao*, Lili Yang*, Zhaoying Wu, Jie Wei*. Implantable PEKK/tantalum microparticles composite with improved surface performances for regulating cell behaviors, promoting bone formation and osseointegration. *Bioact Mater* 2021;6(4):928-940.
3. Liang Cai, Yongkang Pan, Songchao Tang, Quan Li, Tingting Tang, Kai Zheng, Aldo R. Boccaccini, Shicheng Wei, Jie Wei*, Jiacan Su*. Macro-mesoporous composites containing PEEK and mesoporous diopside as bone implants: characterization, in vitro mineralization, cytocompatibility, and vascularization potential and osteogenesis in vivo. *J Mater Chem B* 2017;5(42):8337-8352.
4. Liang Cai, Jue Zhang, Jun Qian, Quan Li, Hong Li, Yonggang Yan, Shicheng Wei, Jie Wei*, Jiacan Su*. The effects of surface bioactivity and sustained-release of genistein from a mesoporous magnesium-calcium-silicate/PK composite stimulating cell responses in vitro, and promoting osteogenesis and enhancing osseointegration in vivo. *Biomater Sci* 2018;6:842-853.
5. Jue Zhang, Wu Wei, Lili Yang, Yongkang Pan, Xuehong Wang, Tinglan Wang, Songchao Tang, Yuan Yao, Hua Hong*, Jie Wei*. Stimulation of cell responses and bone ingrowth into macro-microporous implants of nano-bioglass/polyetheretherketone composite and enhanced antibacterial activity by release of hinokitiol. *Colloid Surface B* 2018;164:347-357.
6. Shiqi Mei, Lili Yang, Yongkang Pan, Deqiang Wang, Xuehong Wang, Tingting Tang*, Jie Wei*. Influences of tantalum pentoxide and surface coarsening on surface roughness, hydrophilicity, surface energy, protein adsorption and cell responses to PEEK based biocomposite. *Colloid Surface B* 2019;174:207-215.
7. Zhiyan Xu, Han Wu, Fan Wang, Rames Kaewmanee, Yongkang Pan, Deqiang Wang, Pengyu Qu, Zhikang Wang, Gangfeng Hu*, Jun Zhao, Ruiyang Zhao, Jie Wei*. A hierarchical nanostructural coating of amorphous silicon nitride on polyetheretherketone with antibacterial activity and promoting responses of rBMSCs for orthopedic applications. *J Mater Chem B* 2019;7(39):6035-6047.
8. Lishu Ren, Songchao Tang*, Xuening Shen, Chao Gao, Yun Kyung Jung, Dongliang Wang*, Axiang He, Lili Yang, Jung-Woog Shin, Jie Wei. Influences of sodium tantalite submicro-particles in polyetheretherketone based composites on behaviors of rBMSCs/HGE-1 cells for dental application. *Colloid Surface B* 2020;188:110723.
9. Junpeng Ge, Fan Wang, Zhiyan Xu, Xuening Shen, Chao Gao, Dongliang Wang*, Gangfeng Hu, Jinlou Gu, Tingting Tang, Jie Wei*. Influences of niobium pentoxide on roughness, hydrophilicity, surface energy and protein absorption, and cellular responses to PEEK based composites for orthopedic applications. *J Mater Chem B* 2020;8(13):2618-2626.
10. Xinke Lv, Xuehong Wang, Songchao Tang*, Dongliang Wang*, Lili Yang, Axiang He, Tingting Tang, Jie Wei. Incorporation of molybdenum disulfide into polyetheretherketone creating biocomposites with improved mechanical, tribological performances and cytocompatibility for artificial joints applications. *Colloid Surface B* 2020;189:110819.