

基本信息

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简介

程德林，中国科学院深圳先进技术研究院，博士，高级工程师。主要研究方向为骨修复生物材料（海洋源水凝胶材料、聚酯类高分子、磷灰石等）和 3D 打印支架。2009/6 获吉林大学高分子材料与工程学士学位，2014/6 获华南理工大学材料学博士学位。主持深圳市科创委基础研究项目 2 项，参与国家重点研发计划、973 计划、国家自然科学基金重点项目/面上项目等课题。目前累计发表 SCI 论文 11 篇（包括 Adv. Funct. Mater.、Adv. Sci.、Colloids Surf. B、J. Mater. Chem. B 等），授权发明专利 5 项、实用新型专利 1 项。同时从事生物材料、医疗器械等领域科研成果转化，包括转化平台建设、项目评估、产品开发等。

学科类别

生物医学工程、生物材料

研究方向

骨修复生物医用材料（高分子及陶瓷类）、3D 打印材料

承担科研项目情况

深圳市科创委基础研究等

主要代表论著

- (1) 3D Printing of Mechanically Stable Calcium-Free Alginate-Based Scaffolds with Tunable Surface Charge to Enable Cell Adhesion and Facile Biofunctionalization, Zifeng Lin, Mingming Wu, Huimin He, Qingfei Liang, Chengshen Hu, Zhiwen Zeng, **Delin Cheng**, Guocheng Wang, Dafu Chen*, Haobo Pan*, Changshun Ruan*, *Advanced Functional Materials*, 2019, 29: 1808439
- (2) 3D-Bioprinted Osteoblast-Laden Nanocomposite Hydrogel Constructs with Induced Microenvironments Promote Cell Viability, Differentiation, and Osteogenesis both In Vitro and In Vivo, Xinyun Zhai, Changshun Ruan*, Yufei Ma, **Delin Cheng**, Mingming Wu, Wenguang Liu, Xiaoli Zhao, Haobo Pan*, William Weijia Lu*, *Advanced Science*, 2018,5,1700550
- (3) Strontium Incorporation Improves the Bone-forming Ability of Scaffolds Derived from Porcine Bone, **Delin Cheng**[#], Qingfei Liang[#], Yonggang Li, Jiahui Fan, Guocheng Wang, Haobo Pan, Changshun Ruan*, *Colloids and Surfaces B: Biointerfaces*, 2018 (162): 279-287
- (4) Mineralization of a Superficially Porous Microsphere Scaffold via Plasma Modification, Jie Hou, Fen Zhang, **Delin Cheng***, Xuetao Shi, Xiaodong Cao*, *RSC Advances*, 2017, 7(6): 3521-3527
- (5) Effect of Mineralized Layer Topographies on Stem Cell Behavior in Microsphere Scaffold, Jie Hou[#], Huichang Gao[#], Yingjun Wang, **Delin Cheng***, Xiaodong Cao*, *Journal of Materials Science & Technology*, 2016, 32(9): 971-977
- (6) Bottom-up Topography Assembly into 3D Porous Scaffold to Mediate Cell Activities, **Delin Cheng**, Jie Hou, Lijing Hao, Xiaodong Cao*, Huichang Gao, Xiaoling Fu, Yingjun Wang*, *Journal of Biomedical Materials Research Part B*, 2016, 104(6): 1056-1063
- (7) Engineering Poly (lactic-co-glycolic acid)/Hydroxyapatite Microspheres with Diverse Macropores Patterns and the Cellular Responses, **Delin Cheng**, Xiaodong Cao*, Huichang Gao, Jie Hou, Wenxiu Li, Lijing Hao, Yingjun Wang*, *RSC Advances*, 2015, 5(23): 17466-17473