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董必钦

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联系方式:

办公地址: 深圳大学土木与交通工程学院A523 (沧海校区致工楼)

办公电话: (0755) 2653 1316

电子邮箱: incise@szu.edu.cn

个人简介:

董必钦, 中国共产党党员; 香港科技大学哲学博士; 教授; 博士生导师; 广东省滨海土木工程耐久性重点实验室副主任; 国家自然科学基金杰出青年基金获得者。

教育背景:

2000年07月~2005年11月 香港科技大学 土木工程专业 哲学博士

1997年09月~2000年07月 浙江大学 无机非金属材料专业 工学硕士

1993年09月~1997年07月 浙江大学 无机非金属材料专业 工学学士

工作经历:

2006年01月至今 深圳大学土木与交通工程学院 讲师、副教授、教授

主讲课程:

《土木工程材料》（本科）、《绿色建筑材料》（本科）、《专业英语》（本科）、《材料测试方法》（博士）、《材料物理与化学》（研究生）

研究方向及兴趣:

混凝土耐久性、功能建材/智能建材/绿色建材

科研项目:

1. 项目来源: 国家自然科学基金杰出青年基金。项目名称: 滨海混凝土劣化与抑制 (编号: 51925805)。主持。经费: 400万
 2. 项目来源: 国家自然科学基金-广东省联合基金。项目名称: 滨海工程混凝土锈蚀智能抑制系统 (编号: U1801254)。主持。经费: 255万。
 3. 国家自然科学基金面上项目。项目名称: 滨海混凝土自免疫系统设计与性能研究 (编号: 51478270)。主持。经费: 86万
 4. 项目来源: 国家自然科学基金面上项目。项目名称: 滨海自修复混凝土及其性能研究 (编号: 50908149)。主持。经费: 80万
 5. 项目来源: 国家自然科学基金青年基金项目。项目名称: 水泥基有机微胶囊自修复材料设计及其作用机理研究 (编号: 50908149)。主持。经费: 25万
 6. 项目来源: 国家自然科学基金重大国际 (地区) 合作与交流项目。项目名称: 滨海腐蚀环境混凝土自修复体系基础研究 (编号: 51120185002)。参与。经费: 300万
 7. 项目来源: 国家自然科学基金面上项目。项目名称: 新型有机微胶囊混凝土自修复复合材料及自愈合机理 (编号: 50878131)。参与。经费: 36万
 8. 项目来源: 国家自然科学基金青年基金项目。项目名称: 利用干涉型光纤传感器对FRP的分层或界面剥离进行无损检测的新方法 (编号: 50808054)。参与。经费: 25万
 9. 项目来源: 国家自然科学基金面上项目。项目名称: 水泥基压电陶瓷智能复合材料及其传感特性的研究 (编号: 50778114)。参与。经费: 30万
 10. 项目来源: 广东省自然科学基金自由探索项目。项目名称: 滨海混凝土微胶囊自修复系统研究 (编号: S2013010013089)。主持。经费: 10万
 11. 项目来源: 广东省教育厅科技创新项目。项目名称: 滨海混凝土微胶囊缓蚀剂及其智能阻锈性能研究。主持。经费: 7万
 12. 项目来源: 广东省自然科学基金研究团队项目。项目名称: 腐蚀环境下混凝土基础设施服役性能保障研究与应用 (编号: 9351806001000001)。团队核心成员。经费: 130万
 13. 项目来源: 深圳市科技计划项目。项目名称: 滨海混凝土自传感系统研究 (编号: JCYJ20140418091413519)。主持。经费: 30万
- 项目来源: 深圳大学交叉学科团队。项目名称: 滨海混凝土耐久性。团队负责人。经费: 300万

代表性学术论文:

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2. Qiwen Qiu, Zhentao Gu, Jiaqi Xiang, Canjie Huang, Shuxian Hong, Feng Xing, Biqin Dong*. Influence of slag incorporation on electrochemical behavior of carbonated cement. *Construction and Building Materials*. 2017, 147: 661-668. (SCI JCR 2区; IF: 3.169; 引用次数: 0)
3. Biqin Dong, Guohao Fang, Yanshuai Wang, Yuqing Liu, Shuxian Hong, Jianchao Zhang, Shangmin Lin, Feng Xing*. Performance recovery concerning the permeability of concrete by means of a microcapsule based self-healing system. *Cement and Concrete Composites*. 2017, 78: 84-96. (SCI JCR 2区; IF: 4.265; 引用次数: 0)
4. Hong, S., Wigggenhauser, H., Helmerich, R., Dong, B., Dong, P., Xing, F. Long-term monitoring of reinforcement corrosion in concrete using ground penetrating radar. *Corrosion Science*. 2017, 114: 123-132. (SCI JCR 1区, TOP期刊; IF: 5.245; 引用次数: 2)
5. Yanshuai Wang, Weijian Ding, Guohao Fang, Yuqing Liu, Feng Xing, Biqin Dong*. Feasibility study on corrosion protection of steel bar in a self-immunity system based on increasing OH^- content. *Construction and Building Materials*. 2016, 125: 742-748. (SCI JCR 2区; IF: 3.169; 引用次数: 1)
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31. Biqin Dong, Yanshuai Wang, Weijian Ding, Shuting Li, Ningxu Han*, Feng Xing, Youyuan Lu. Electrochemical impedance study on steel corrosion in the simulated concrete system with a novel self-healing microcapsule. *Construction and Building Materials*. 2014, 56: 1-6. (SCI JCR 2区; IF: 3.169; 引用次数: 12)
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33. Jun Liu, Feng Xing*, Biqin Dong, Hongyan Ma*, Dong Pan. Study on surface permeability of concrete under immersion. *Materials*. 2014, 7: 876-886. (SCI JCR 2区; IF: 2.654; 引用次数: 8)
34. Biqin Dong, Qiwen Qiu, Jiaqi Xiang, Canjie Huang, Feng Xing, Ningxu Han*. Study on the carbonation behavior of cement mortar by electrochemical impedance spectroscopy. *Materials*. 2014, 7: 218-231. (SCI JCR 2区; IF: 2.654; 引用次数: 8)
35. Lu Youyuan, Zhang Jinrui, Li Zongjin, Dong Biqin. Corrosion monitoring of reinforced concrete beam using embedded cement-based piezoelectric sensor. *Magazine of Concrete Research*. 2013, 65(21): 1265-1276. (SCI JCR 4区; IF: 1.156; 引用次数: 8)
36. Binqin Dong, Ningxu Han, Ming Zhang, Xianfeng Wang, Hongzhi Cui, Feng Xing*. A microcapsule technology based self-healing system for concrete structures. *Journal of Earthquake and Tsunami*. 2013, 7(3): 1350014 (11 pages). (SCI JCR 4区; IF: 0.692; 引用次数: 4)
37. Biqin Dong*, Ningxu Han, Zhu Ding, Feng Xing *, Hongzhi Cui. A preliminary study of synthesized-in situ fiber in cement materials. *Construction and Building Materials*. 2013, 40: 10-13. (SCI JCR 2区; IF: 3.169; 引用次数: 2)
38. Zhu Ding*, Biqin Dong, Feng Xing, Ningxu Han, Zongjin Li. Cementing mechanism of potassium phosphate based magnesium phosphate cement. *Ceramics International*. 2012, 38: 6281-6288. (SCI JCR 2区; IF: 2.986; 引用次数: 42)
39. Biqin Dong*, Feng Xing, Zongjin Li. Cement-based piezoelectric ceramic composite and its sensor applications in civil engineering. *ACI materials Journal*. 2011, 108(5): 543-549. (SCI JCR 3区; IF: 1.183; 引用次数: 8)
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- Zongjin Li*, Biqin Dong, Dong Zhang. Influence of polarization on properties of 0-3 cement-based PZT composites. *Cement and Concrete Composites*, 2005, 27(1): 27-32. (SCI JCR 2区; IF:4.265; 引用次数: 82)

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1. 董必钦; 邢锋; 杨略; 陈镇鸿; 房国豪; 张健超; 徐伟伟; 王琰帅. 一种水泥基材料接触角和表面能的测量方法 - 201410091441.7
2. 董必钦; 刘昱清; 洪舒贤; 邢锋; 房国豪; 张健超; 徐伟伟; 林立; 陈岸伦; 袁斯鸿. 一种钢筋混凝土结构应力原位在线监测方法 - 201410161590.6
3. 董必钦; 邢锋; 张健超; 徐伟伟; 邹佳伟; 徐亚冲; 陈林鸿; 洪梓煜; 吕洋波; 颜肃; 吴林桂. 一种混凝土中氯离子浓度快速测试的方法和试纸 - 201410325482.8
4. 邢锋; 董必钦; 王琰帅; 洗向平; 陈立; 袁伟鹏. 一种混凝土化学自修复微胶囊囊芯释放量的测试方法 - 201310400416.8
5. 邢锋; 董必钦; 王琰帅; 洗向平; 杨博乾; 陈春桃; 黄诗嵘; 郑素君; 李智裕; 陈立. 一种具有化学触发功能的化学自修复混凝土及其制备方法 - 201310417945.9
6. 邢锋; 董必钦; 王琰帅; 洗向平; 杨博乾; 陈春桃; 黄诗嵘; 郑素君; 李智裕; 陈立. 一种混凝土内养护剂、其制备方法和使用方法 - 201310417951.4
7. 董必钦; 邢锋; 李淑婷; 丁蔚健; 吴永潮; 王琰帅; 房国豪; 林立; 简震昭. 一种混凝土碱性调节微胶囊及其制备方法 - 201310535283.5
8. 董必钦; 邢锋; 丁蔚健; 李淑婷; 吴永潮; 王琰帅; 房国豪; 简震昭; 林立. 一种混凝土化学自修复微胶囊及其制备方法 - 201310535305.8
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13. 左建东; 罗超云; 董必钦; 余君燕; 赵雷; 邢锋. 聚苯乙烯/单氟磷酸钠微胶囊阻锈剂的制备方法 - 201210508729.0
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16. 朱光明; 邬治平; 汤皎宁; 董必钦; 王险峰; 韩宁旭; 邢锋. 一种以聚脲为壁材的环氧微胶囊及其制备方法 - 201310224912.2
17. 朱光明; 周玉明; 汤皎宁; 董必钦; 王险峰; 韩宁旭; 邢锋. 一种以酚醛树脂为壁材的环氧微胶囊的制备方法 - 201310602919.3
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学术/社会兼职:

1. 中国混凝土与水泥制品协会自防护混凝土材料与工程技术分会副理事长、专委会委员。

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地址: 深圳大学沧海校区致工楼 管理员信箱: 450410031@qq.com

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