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| 最高学位: | 1999年 于 北京大学化学系 获得 博士 学位 | |
| 研究方向: | 生物材料, 仿生设计和制造, 微/纳米技术, 组织工程 | |
| 研究兴趣: | 应用仿生学原理和微/纳米技术设计、制造新型高性能生物医药材料, 用于组织再生修复、重大疾病的预防、诊断和治疗, 以提高人类的整体健康质量。 | |
| 教育经历: | 1996—1999 北京大学化学与分子工程学院纳米科技中心, 获理学博士 1993—1996 兰州大学现代物理系, 获理学硕士 1989—1993 兰州大学化学系, 获理学学士 | |
| 工作经历: | 2006— 现在 北京大学工学院生物医学工程系特聘研究员、博士生导师 2003—2006 美国密歇根大学牙科学院和电子微束分析实验室研究员 (Research Investigator) 2001—2002 美国密歇根大学牙科学院、物理系、化学系和生物纳米技术中心联合博士后研究员 (Postdoctoral Research Fellow) 1999—2001 英国利兹大学牙科研究院、物理和天文学系联合博士后研究员 (Postdoctoral Research Fellow) | |
| 代表论文: | Chen H, Tang Z, Liu J, Sun K, Chang SR, Peters MC, Mansfield JF, Czajka-Jakubowska A, Clarkson BH: Acellular synthesis of a Human Enamel-like Microstructure, <i>Advanced Materials</i> 18: 1846-1851, 2006 Chen H, Czajka-Jakubowska A, Spencer NJ, Mansfield JF, Robinson C, Clarkson BH: Effects of Systemic Fluoride and in vitro Fluoride Treatment on Enamel Crystals, <i>Journal of Dental Research</i> 85: 1042-1045, 2006 Chen H, Sun K, Tang Z, Law RV, Mansfield JF, Czajka-Jakubowska A, Clarkson BH: Synthesis of Fluorapatite Nanorods and Nanowires by Direct Precipitation from Solution, <i>Crystal Growth & Design</i> 6: 1504-1508, 2006. Chang S, Chen H, Liu J, Wood D, Bentley P, Clarkson B: Synthesis of a bioactive, hydroxyapatite nucleating molecule, <i>Calcified Tissue International</i> 78: 55-61, 2006. Chen H, Robinson C, Shore RC, Brookes SJ, Zhang J, Smith DA, Clarkson BH, Kirkham J: Nanoscale analysis of bone mineral crystals, <i>NSTI-Nanotech 2006</i> , ISBN 0-9767985-7-3 Vol. 2: 95-98, 2006 Chen H, Clarkson BH, Sun K, Mansfield JF: Self-assembly of synthetic hydroxyapatite nanorods into an enamel prism-like structure, <i>Journal of Colloid and Interface Science</i> 288: 97-103, 2005. Chen H, Chen Y, Orr BG, Banaszak-Holl MM, Majoros I, Clarkson BH: Nanoscale probing of enamel nanorod surface using polyamidoamine dendrimer, <i>Langmuir</i> 20(10): 4168-4171, 2004. Harrell JM, Murphy PJM, Morishima Y, Chen H, Mansfield JF, Galigniana MD, Pratt WB: Evidence for glucocorticoid receptor transport on microtubules by dynein, <i>Journal of Biological Chemistry</i> 279(52): 54647-54654, 2004 Chen H, Banaszak-Holl MM, Orr BG, Majoros I, Clarkson BH: Interaction of Dendrimers (Artificial Proteins) with Biological Hydroxyapatite Crystals, <i>Journal of Dental Research</i> 82(6): 443-448, 2003. Murphy PJM, Morishima Y, Chen H, Galigniana MD, Mansfield JF, Simons SS and Pratt WB: Visualization and Mechanism of Assembly of a Glucocorticoid Receptor-hsp70 Complex that is Primed for Subsequent hsp90-Dependent Opening of the Steroid Binding Cleft, <i>Journal of Biological Chemistry</i> 278(37):34764-34773, 2003. Wallwork ML, Kirkham J, Chen H, Chang SR, Robinson C, Clarkson BH: Imaging Dentin Proteins on Enamel Crystal Using Atomic Force Microscopy, <i>Calcified Tissue International</i> 71:249-255, 2002. Kirkham J, Brooks SJ, Shore RC, Wood SR, Smith DA, Zhang J, Chen H, Robinson C: Physico-chemical properties of crystal surfaces in matrix-mineral interactions during mammalian biomineralisation. <i>Current Opinion in Colloid & Interface Science</i> 7(1-2):124-132, 2002. | |

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