



高克玮, 1967 年生, 材料科学与工程学院材料物理与化学系书记、副主任。1989 年本科毕业于北京科技大学应用物理系, 1995 年博士毕业于北京科技大学材料物理系。1996-1997 年加拿大阿尔伯特大学访问学者, 1998-2000 年日本金属材料研究所特聘研究员。曾先后获得国家新世纪优秀人才支持计划、北京市科技新星计划项目、霍英东青年教师基金等项目的资助。主要研究方向: 腐蚀科学与防护技术、材料表面改性及性能表征、材料的断裂以及环境断裂等。研究成果曾先后获得教育科技进步奖、北京市科技进步奖、冶金部科技进步奖、航空集团科技进步奖。发表论文 200 余篇, 合作发表著作五部。

【在研科研项目】

1. 国家自然科学基金面上项目: 致密、具有保护性的腐蚀产物膜析出动力学机制的研究
2. 北京市自然科学基金重点项目: CO₂ 捕集、储存中金属构件服役损伤及控制的研究
3. 企业协作项目: 复合纳米多层薄膜的制备工艺及防腐抗冲蚀机理

【代表性学术论文】

1. Shaopeng Qu, Xiaolu Pang, Yanbin Wang, **Kewei Gao**, Corrosion Science, 75(2013), 67.
Corrosion behavior of each phase in low carbon microalloyed ferrite - bainite dual-phase steel: Experiments and modeling
2. Shuai Zhang, Xiaolu Pang, Yanbin Wang, **Kewei Gao**, Corrosion Science, 75(2013), 293.
Corrosion behavior of steel with different microstructures under various elastic loading conditions
3. Yuanyuan Cheng; Xiaolu Pang; **Kewei Gao**; Huisheng Yang; A.A. Volinsky. Thin Solid Films, 2014, V.550, 428.
Corrosion resistance and friction of sintered NdFeB coated with Ti/TiN multilayers
4. Lei Zhang, **Kewei Gao**, Anastasia Elias, Ziqiang Dong, Weixing Chen. Ceramics International, V.40, Issue 1, Part A, (2014), 191.
Porosity dependence of elastic modulus of porous Cr₃C₂ ceramics
5. Jie Jin, Yunbo Chen, **Kewei Gao**, Xiaolin Huang. Applied Surface Science, 305, 2014, 93.
The effect of ion implantation on tribology and hot rolling contact fatigue of Cr₄Mo₄Ni₄V bearing steel



Kewei Gao, received her Ph.D degree from Department of Materials Physics, University of Science and Technology Beijing, is now a professor in School of Materials Science and Technology in the same university. One of her research interest is understanding of mechanochemical effect of metallic materials related to environmental degradation, such as stress corrosion cracking and hydrogen embrittlement of steels, intermetallics, Ni-based alloy, and functional ceramics. A secondary engineering objective is to improve of surface properties by different techniques, like magnetron sputtering, ion implantation, as well as surface oxidation.

【Publications】

1. Shaopeng Qu, Xiaolu Pang, Yanbin Wang, **Kewei Gao**, Corrosion Science, 75(2013), 67.
Corrosion behavior of each phase in low carbon microalloyed ferrite - bainite dual-phase steel: Experiments and modeling
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