

# 摩 擦 学 学 报

(Mocaxue Xuebao)

第 31 卷 第 3 期 (总第 143 期) 2011 年 5 月

## 目 次

### · 研究论文

- 含氟硅油作为润滑油添加剂的摩擦学性能研究 ..... 冯 欣 (205)
- 铝板带冷轧过程中磨损影响因素及磨损作用机制研究 ..... 黄 琰,孙建林,么文静,武 迪 (210)
- 超载条件下空间润滑谐波减速器传动性能及摩擦磨损性能研究 ..... 李 波,李瑞祥 (216)
- Cu<sub>14</sub>Al<sub>4</sub>.5FeNi 合金等离子涂层边界润滑摩擦磨损特性 ..... 李文生,刘 毅,路 阳,王智平,李亚斐 (221)
- WC-Co-Cr 涂层的孔率和层状结构对冲蚀行为的影响 ..... 李 阳,李 曙,刘 阳,王华仁 (228)
- 摩擦系数对钛合金等通道转角挤压影响的有限元分析 ..... 李振华,程先华 (235)
- 蓖麻油聚氧乙烯醚水基润滑液摩擦学特性研究 ..... 刘俊铭,张晨辉,张朝辉,王 岩,刘思思 (240)
- 水溶性聚酯酯摩擦学性能的研究 ..... 祁有丽,苏 刚,陈霞婧,李久盛,顾敏捷 (249)
- 高压微间隙下 4010 航空油的润滑特性研究 ..... 钱善华,郭 丹,刘书海,路新春 (255)
- 纳米铜自修复性能评价标准研究 ..... 孙 磊,刘爱心,陶小军,赵彦保,张治军 (264)
- 巴氏合金 ZChSnSb 8-8 海水环境下的摩擦学行为研究 ..... 吴海荣,毕秦岭,杨 军,刘维民 (271)
- 聚酰亚胺粘结 MoS<sub>2</sub> 基固体润滑涂层在油介质中的摩擦学性能 ..... 杨瑞杰,冶银平,万宏启,周惠娣,陈建敏 (278)
- 表面凹槽对流体动压润滑油膜厚度的影响 ..... 杨淑燕,王海峰,郭 峰 (283)
- 天然矿物微粉润滑添加剂对钢摩擦副的自修复效应 ..... 张保森,徐滨士,许 一,高 飞,史佩京,吴毅雄 (289)
- 多组份硅橡胶基末端膨大二级结构粘附性能研究 ..... 张 昊,吴连伟,郭杰东,戴振东 (295)
- 磁控溅射 Al 靶功率对类金刚石薄膜结构和摩擦学性能的影响 ..... 周升国,王立平,薛群基 (304)

### · 评述与进展

- 陶瓷髌关节异响的研究进展和展望 ..... 范 娜,陈光雄,钱林茂 (311)

责任编辑 周金芳 排 版 潘 宁

期刊基本参数 CN 62-1095/O4 \* 1981 \* b \* A4 \* 100 \* zh \* P \* ¥30.00 \* 2000 \* 17 \* 2011-5

# Tribology

Vol 31, No 3, May 2011

## Contents

Tribological Properties of Fluorosilicone Containing Oils as Lubricant Additives .....	FENG Xin	(205)
Influencing Factors on Wear and Wear Mechanism in Cold Rolling of Aluminum .....		
..... HUANG Ying, SUN Jian - lin, YAO Wen - jing, WU Di		(210)
Transmission Behaviors and Tribological Properties of the Solid and Grease Lubricated Harmonic Drivers at Overload Condition .....	LI Bo, LI Rui - xiang	(216)
Tribological Property of Cu14Al4.5FeNi Bronze and Its Plasma Sprayed Coating .....		
..... LI Wen - sheng, LIU Yi, LU Yang, WANG Zhi - ping, LI Ya - fei		(221)
Effect of Porosity and Laminar Structure on Erosion Resistance of WC - Co - Cr Coatings .....		
..... LI Yang, LI Shu, LIU Yang, WANG Hua - ren		(228)
Finite Element Analysis of Influence of Friction Coefficient on Equal Channel Angular Extrusion of Titanium Alloy .....		
..... LI Zhen - hua, CHENG Xian - hua		(235)
Lubricating Properties of the Aqueous Solution of Castor Oil Polyoxyethylene Ether .....		
..... LIU Jun - ming, ZHANG Chen - hui, ZHANG Chao - hui, WANG Yan, LIU Si - si		(240)
Tribological Studies of a Water - soluble Polyether Ester .....		
..... QI You - li, SU Gang, CHEN Fu - jing, LI Jiu - sheng, XIE Min - jie		(249)
Lubricating Properties of Aviation Oil 4010 under High - pressure Micro Clearance .....		
..... QIAN Shan - hua, GUO Dan, LIU Shu - hai, LU Xin - chun		(255)
Establishment of a Standard for Evaluating the Self - repairing Properties of Nano - Copper powder as an additive .....		
..... SUN Lei, LIU Ai - xin, TAO Xiao - jun, ZHAO Yan - bao, ZHANG Zhi - jun		(264)
Tribological Performance of Tin - based White Metal ZChSnSb 8 - 8 under Simulated Sea Water Environment .....		
..... WU Hai - rong, BI Qin - ling, YANG Jun, LIU Wei - min		(271)
Tribological Properties of Polyimide Bonded MoS <sub>2</sub> Solid Lubricant Coatings in Different Oils .....		
..... YANG Rui - jie, YE Yin - ping, WAN Hong - qi, ZHOU Hui - di, CHEN Jian - min		(278)
Influence of Grooved Surfaces on the Film Thickness of Hydrodynamic Lubrication .....		
..... YANG Shu - yan, WANG Hai - feng, GUO Feng		(283)
Self - repairing Effect of Natural Mineral Powders as a Lubricating Additive on Steel Tribopairs .....		
..... ZHANG Bao - sen, XU Bin - shi, XU Yi, GAO Fei, SHI Pei - jing, WU Yi - xiong		(289)
Adhesion Performance of the Multi - components Silicone - based Secondary Structure Cohesive Arrays with Large End .....		
..... ZHANG Hao, WU Lian - wei, GUO Dong - jie, DAI Zhen - dong		(295)
Effect of Al Target Power of Magnetron Sputtering on the Structure and Tribological Properties of Diamond - like Carbon Films .....	WANG Bai - sheng, ZHANG Xiang - hui	(304)
Current State and Progress in the Research of Squeaking in Ceramic - on - ceramic Hip Prosthesis .....		
..... FAN Na, CHEN Guang - xiong, QIAN Lin - mao		(311)