

摩 擦 学 学 报

第 28 卷 (2008 年第 1~6 期总第 123~128 期)

总 目 次

研 究 论 文

利用 AFM 机械刻蚀技术在 OTS 自组装单分子膜表面制备纳米图案及其力学性能研究	刘建喜, 赵 晶, 刘志鲁, 陈 森	1 (6)
石英光纤端面的化学机械抛光实验研究	顾 欣, 张晨辉, 雒建斌, 路新春	1 (11)
扭动微动的模拟及其试验研究	蔡振兵, 朱旻昊, 俞 佳, 周仲荣	1 (18)
石墨结构层包覆铜纳米粒子的摩擦磨损性能研究	宾晓蓓, 陈加藏, 曹 宏, 刘洪波, 涂文懋	1 (23)
相结构对氮化钛薄膜摩擦磨损性能的影响	王俊平, 陆永浩	1 (28)
纳米碳化钨增强镍基合金热喷涂涂层的摩擦磨损性能研究	姚舜晖, 苏演良, 高文显, 郑凯文	1 (33)
表面纳米化中碳钢在干摩擦条件下的摩擦磨损性能研究	李国宾, 关德林, 张明星	1 (39)
热处理温度对添加碳化硼 炭复合材料摩擦磨损性能的影响	张红波, 辛 伟, 左劲旅, 尹 健, 李江鸿	1 (44)
化学液相汽化沉积法制备炭 炭复合材料的湿态摩擦磨损性能研究	李克智, 李新涛, 李贺军, 费 杰, 付业伟	1 (50)
碳纤维织物 环氧树脂基复合材料的摩擦磨损性能研究	周先辉, 孙友松, 王万顺	1 (56)
硅氧铝陶瓷纤维含量对半金属摩擦材料摩擦磨损性能的影响	韩 野, 田晓峰, 尹衍升	1 (63)
Lundberg 对数滚子的热弹流特性及其凸度量修正	孙浩洋, 陈晓阳, 刘春浩, 杨沛然	1 (68)
适用于永磁悬浮轨道及永磁轴承的解析磁力模型研究	田录林, 杨晓萍, 李 言, 田 琦, 李 辉, 张欣伟	1 (73)
聚乙烯醇 纳米羟基磷灰石复合水凝胶的接触变形与启动摩擦特性研究	沈艳秋, 张德坤, 葛世荣	2 (97)
纳米 SiO_2/CeO_2 复合磨粒的制备及其抛光特性研究	肖保其, 雷 红	2 (103)
基于磨损行为的单晶硅片化学机械抛光界面接触形式研究	苏建修, 杜家熙, 陈锡渠, 张学良, 郭东明	2 (108)
CVD 金刚石薄膜在水润滑条件下的摩擦磨损性能研究	沈 彬, 孙方宏, 张志明	2 (112)
中频磁控溅射沉积含铝类金刚石碳膜结构及其摩擦磨损性能研究	张广安, 王 鹏, 陈友明, 王 霞, 闫鹏勋, 张俊彦	2 (118)
碳含量对磁控溅射 Cr/C 镀层摩擦磨损性能的影响	蒋百灵, 苏 阳	2 (123)
Ti-Al 金属间化合物润滑薄膜制备及其摩擦磨损性能研究	李长生, 张 晔, 田明霞, 刘万章, 宋新亚, 钱 周	2 (128)
PMMA/ SiO_2 纳米杂化材料作为润滑油添加剂的摩擦磨损性能研究	李春风, 陈波水, 罗新民, 侯 滨	2 (133)
TC11 钛合金在人造海水中的腐蚀磨损特性研究	丁红燕, 戴振东	2 (139)
小 Tabor 数分形粗糙表面之间的黏着弹性接触分析	孙立宁, 王乐锋, 荣伟彬	2 (145)
平行运动的粗糙表面润滑承载性能研究	姚华平, 黄 平	2 (150)
含对称间隙的摩擦振子非线性动力学分析	丁旺才, 张有强, 谢建华	2 (155)
仿生棱纹几何结构表面的土壤磨料磨损	佟 金, 荣宝军, 马云海, 张金波	3 (193)
混合及流体动力润滑下规则微小凹痕图型表面的摩擦特性研究	任靖日, 赵德金, 蔡荣勳, 金石三	3 (198)
偶件表面纹理方向对尼龙摩擦磨损性能的影响	黄传辉, 张元越, 李 志	3 (203)
纳米弹性复合 DLC 薄膜的制备及其摩擦性能研究	程广贵, 丁建宁, 凌智勇, 坎 标, 范 真, 石超燕	3 (207)
等离子喷涂纳米 WC-12%Co 涂层与陶瓷和不锈钢配副时的摩擦磨损性能对比研究	尹 斌, 周惠娣, 陈建敏, 赵晓琴, 安宇龙	3 (213)
MoS_2/Ti 复合薄膜对 Ti6Al4V 合金高温摩擦磨损性能及微动疲劳行为的影响	张晓化, 刘道新, 高广睿, 唐长斌, 唐 宾	3 (219)
Ni 包 MoS_2 添加剂对镍基涂层的摩擦磨损性能影响	潘蛟亮, 王引真, 李方坡, 高海军	3 (225)
石墨及氧化铝增强 AZ91D-Mg 基复合材料的磨损性能研究	张美娟, 刘勇兵, 杨晓红, 罗克帅, 安 健	3 (230)
基于可观测状态的轴承 转子系统周期解计算及稳定性分析	吕延军, 刘 恒, 戴 融, 虞 烈, 姜 明, 孔令飞	3 (235)

点接触边界润滑吸附膜计算模型	王慰祖, 黄 平	3 (240)
分形表面接触变形对部分膜润滑的影响	刘红斌, 万大平, 胡德金	3 (244)
Zn 单层、多层、梯度层及复合处理层对不锈钢固体粒子冲蚀行为的影响	奚涛涛, 刘道新, 韩 栋	4 (293)
Fe ₃ Si 金属间化合物在干摩擦及水润滑条件下的摩擦学性能研究	贾建刚, 吕晋军, 马 勤	4 (299)
一种类富勒烯碳膜与不同偶件对摩时的摩擦学行为及其机制研究	王 霞, 王 鹏, 张 斌, 杨生荣, 张俊彦	4 (304)
Fluent 环境中近壁面微空泡溃灭的仿真计算	李 疆, 陈皓生	4 (311)
氮化铬薄膜的径向纳动损伤机制研究	张 爽, 钱林茂, 莫继良	4 (316)
摩擦界面原子受迫振动温升模型及计算研究	龚中良, 丁凌云, 黄 平	4 (322)
微扰动对液体螺旋槽机械密封性能的影响	周剑锋, 顾伯勤	4 (327)
微纳米摩擦的弹性棘轮模型与形貌的尺度效应	董云开, 张向军, 刘 莹, 温诗铸	4 (333)
弹流接触区高压润滑油运输的实验研究	耿美香, 郭 峰, 李海英	4 (339)
超导体 YBa ₂ Cu ₃ O _{7-x} 的摩擦学特性研究	董丽荣, 李长生, 华敏奇, 丁巧党	4 (345)
高精度线接触时变弹流润滑问题的数值模拟研究	吕宏强	4 (351)
干摩擦条件下铜/石墨复合材料与 ZQA19-4 铝青铜的磨损图研究	马文林, 吕晋军	5 (389)
载银纳米 SiO ₂ 对超细羊毛摩擦磨损性能的影响	朱 岳, 戴晋明, 魏丽乔, 许并社	5 (394)
碳纳米管与石墨基底间摩擦耗散的分子动力学模拟研究	李 瑞, 胡元中, 王 慧	5 (400)
反应合成 Cu//FeS 复合材料摩擦磨损分子动力学模拟	洪振军, 陈敬超, 冯 晶, 胡付立	5 (406)
纳米尺度气体滑动轴承的 DSMC 模拟	兰旭东, 李志信	5 (411)
氮化硅陶瓷球研磨过程中磨损形式的研究	吕冰海, 袁巨龙, 戴 勇	5 (416)
沉淀法制备 PVA/HA 复合水凝胶的摩擦性能研究	程慧茹, 张德坤, 沈艳秋, 黄小亚	5 (422)
电弧喷涂铁基非晶涂层的磨粒磨损性能研究	傅斌友, 贺定勇, 赵力东	5 (428)
UHMWPE 基体上沉积 GLC 薄膜及其摩擦磨损性能研究	李众利, 洪春福, 李瑞玲, 涂江平, 王 岩	5 (433)
范德华力对磁头/硬盘薄膜气体润滑动态特性的影响	白少先, 彭旭东, 孟永钢, 温诗铸	5 (438)
高速车削钛合金的硬质合金刀具磨损机理研究	李友生, 邓建新, 张 辉, 李剑锋	5 (443)
微细铣削铅黄铜时微径铣刀的损伤研究	杨 凯, 白清顺, 梁迎春, 王 波, 孙雅洲, 赵 岩	5 (448)
磨损磨粒的主成分聚类方法分析	吕植勇, 严新平, 彭雅芳, 王 峰	5 (453)
基于图像的磨粒在线监测系统关键技术研究	李绍成, 左洪福, 张艳彬	5 (457)
蛇纹石粉体作为自修复添加剂的抗磨损机理	陈文刚, 高玉周, 张会臣	5 (463)
CeO ₂ 对 WC-Co/Ni60B 激光熔覆涂层组织和磨损性能的影响	张 蕾, 陈华辉, 赵会友, 曹洪治, 吕秋生, 聂飞龙	6 (485)
基体偏压对磁控溅射类石墨镀层摩擦磨损性能的影响	严少平, 蒋百灵, 苏 阳, 张永宏	6 (491)
原位内生 NiAl-Al ₂ O ₃ -TiC 的高温磨损特性	王振生, 周兰章, 郭建亭, 胡壮麒	6 (497)
齿面微观形态对齿轮耐磨性能影响的试验研究	韩志武, 董立春, 王玉洁, 殷世琦, 任露泉	6 (503)
带内环槽的螺旋槽干式气体端面密封的静压性能	彭旭东, 谭丽丽, 盛颂恩, 白少先, 李纪云	6 (507)
高速切削强化表面 (HSMs) 的摩擦学性能试验研究	龙震海, 赵文祥, 董世运	6 (512)
MEMS 动平板的切向静电阻力	沈雪瑾, 侯利程	6 (517)
1-乙基-3-辛基咪唑二乙基磷酸盐离子液摩擦学行为研究	姜 栋, 徐 斌, 冯大鹏	6 (524)
两圆柱体表面接触承载能力的分形模型研究	黄 康, 赵 韩, 陈 奇	6 (529)
坡缕石微粉润滑油添加剂对钢/钢摩擦副摩擦学性能的影响及其机理探讨	黄海鹏, 王成彪, 岳 文, 温庆丰, 胡 斌, 刘家浚	6 (534)

工 程 应 用

超细晶粒硬质合金的高速摩擦磨损特性研究	潘永智, 艾 兴, 赵 军, 李光业, 宋良煜	1 (78)
内氧化法制备 Al ₂ O ₃ /Cu 复合材料电滑动磨损性能的研究	徐晓峰, 宋克兴, 刘瑞华, 国秀花	1 (83)
汗液对皮肤摩擦特性的影响研究	李 炜, 孔 梅, 刘夕东, 周仲荣	1 (88)
模拟正常刹车条件下 C/C 复合材料的摩擦表面结构分析	李江鸿, 熊 翔, 张红波, 肖 鹏, 黄伯云	2 (161)
铜石墨合金材料在载流条件下的摩擦磨损行为研究	马行驰, 何国求, 何大海, 陈成澍, 胡正飞, 张卫华	2 (167)
磨料流加工过程中介质黏温特性对金属磨损性能的影响	赵 嘉, 方 亮, 孙 琨, 马德新	2 (173)
多重网格法计算有限长线接触热弹流问题初值对求解过程的影响	吴文蕾, 沈雪瑾, 陈晓阳, 李科委	2 (178)
沙尘粒子对轮/铲摩擦学系统的侵入机制分析	武通海, 刁东风	2 (184)
金属橡胶隔振构件中不锈钢丝的微动摩擦磨损性能研究	董秀萍, 刘国权, 牛 犁, 白鸿柏, 杨建春	3 (248)

姿控飞轮用陶瓷球轴承失效特性分析	黄敦新,白 越,黎海文,王其君,吴一辉	3 (254)
20CrNiMo钢在冲击滑动耦合作用下的磨损特性研究	魏勇强,王黎钦	3 (260)
铸态铝基复合材料与半金属衬片摩擦副的干滑动摩擦磨损特性研究	金云学, Jung Moo Lee, Suk-Bong Kang	3 (266)
聚酰亚胺多孔含油材料的摩擦磨损性能研究	闫普选,朱 鹏,黄丽坚,王晓东,谷和平,黄 培	3 (272)
硼化菜籽油润滑添加剂的摩擦磨损性能研究	方建华,陈波水,董 凌,王 九	3 (277)
提升机盘形制动器闸瓦三维瞬态温度场仿真与试验研究	朱真才,史志远,彭玉兴,陈国安	4 (356)
氧气气氛中 CrNiMo钢的高温高速干滑动摩擦磨损性能	杜三明,张永振,刘维民,邱 明	4 (361)
氨基乙酸-H ₂ O ₂ 体系抛光液中铜的化学机械抛光研究	张 伟,路新春,刘宇宏,潘国顺,雒建斌	4 (366)
苯甲酸 硬脂酸钛基润滑脂摩擦磨损性能研究	陈继国,曲建俊	4 (372)
MoS ₂ 基复合薄膜润滑球轴承在真空环境下的摩擦性能研究	林冠宇,王淑荣,王立朋	4 (377)
一种高碳钢低温干摩擦行为的研究	王鸿灵,阎逢元	5 (469)
钢的高温氧化磨损及氧化物膜的研究	陈康敏,王树奇,杨子润,王 峰,崔向红,潘 励	5 (475)
汽车盘式制动器摩擦 振动耦合特性试验研究	张立军,缪唯佳,余卓平	5 (480)
传动装置密封环摩擦磨损性能研究	官 燃,李洪武,周晓军	6 (541)
聚酰亚胺复合材料与不同对偶材料滑动摩擦磨损性能	黄丽坚,朱 鹏,王晓东,宋艳江,黄 培	6 (546)
碳纤维织物增强 PES-C/PTFE复合材料的摩擦学性能研究	赵 普,贾 倩,王齐华	6 (551)
一种磨损预测的优化算法研究	盛晨兴,严新平,徐泰富	6 (556)
基于优化最小二乘支持向量机的磨损预测研究	吕德峰,左洪福,蔡 景,王 焱	6 (562)

评 述 与 进 展

纳米加工过程中金刚石刀具磨损研究的新进展	梁迎春,郭永博,陈明君	3 (282)
环境友好润滑油的发展及其摩擦学研究现状	孙玉彬,胡丽天,薛群基	4 (381)
颗粒流润滑的现状和展望	王 伟,刘 焜	6 (567)

专 家 论 坛

材料磨损研究的进展与思考	温诗铸	1 (1)
--------------------	-----	---------

回 顾

我国摩擦学发展回顾——在第八届全国摩擦学大会上的致辞	宋天虎	1 (94)
创新润滑材料,服务国家需求——固体润滑国家重点实验室发展历程	刘维民,薛群基	2 (189)
从《摩擦学学报》刊出论文的被引用情况分析我国摩擦学领域的研究热点	何 雪	3 (289)
科技期刊中“摩擦系数”一词使用情况及相关国家标准和国外标准对比分析	何 雪,潘 宁,周金芳	6 (576)

TRIBOLOGY

VOLUME 28 (NUMBER 1~6, 2008, TOTAL NUMBER 123~128)

CLASSIFIED INDEX

Research paper

- Fabrication of Nanopatterns on OTS Surface Using ARM Based Scratch Method and Mechanical Properties
..... LIU Jian-xi, ZHAO Jing, LIU Zhi-lu, CHEN Miao 1 (10)
- Research on Polishing End Face of Silica Optical Fiber.....
..... GU Xin, ZHANG Chen-hui, LUO Jian-bin, LU Xin-chun 1 (17)
- Experimental Investigation and Simulation of Torsional Fretting Mode
..... CAI Zhen-bing, ZHU Min-hao, YU Jia, ZHOU Zhong-rong 1 (22)
- Friction and Wear Behavior of Graphene Encapsulated Copper Nanoparticles
..... BIN Xiao-bei, CHEN Jia-zang, CAO Hong, LIU Hong-bo, TU Wen-mao 1 (27)
- Effect of Phase Configuration on Wear Behavior of TB_xN_y Thin Films
..... WANG Jun-ping, LU Yong-hao 1 (32)
- Tribological Performance of Nano-structured WC Reinforced Ni-based Alloy HVOF Coatings
..... YAO Shun-hui, SU Yan-liang, GAO Wen-xian, CHENG Kai-wen 1 (38)
- Friction and Wear Properties of Medium Carbon Steel by Means of Surface Nanocrystallization in Dry Sliding
..... LI Guo-bin, GUAN De-lin, ZHANG Ming-xing 1 (43)
- Effects of Heat Treatment Temperature on Tribological Properties of Carbon/Carbon Composites with B_4C Additive.....
..... ZHANG Hong-bo, XIN Wei, ZUO Jin-lv, YIN Jian, LI Jia-hong 1 (49)
- Friction and Wear Performance of Carbon/Carbon Composites by CLV I Process under Wet Conditions
..... LI Ke-zhi, LI Xin-tao, LI He-jun, FEI Jie, FU Ye-wei 1 (55)
- Study on the Tribological Properties of Carbon Fabric/Epoxy Composites
..... ZHOU Xian-hui, SUN You-song, WANG Wan-shun 1 (62)
- Effect of Ceramic Fiber Content on Tribology Properties of Semimetal Friction Material
..... HAN Ye, TAN Xiao-feng, YIN Yan-sheng 1 (67)
- Study on Thermal EHL Performance of Lundberg Profile Rollers and the Modification of its Crowning Value
..... SUN Hao-yang, CHEN Xiao-yang, LIU Chun-hao, YANG Pei-ran 1 (72)
- Analytical Magnetic Force Model for Permanent Magnetic Guideway and Permanent Magnetic Bearings
..... TAN Lu-lin, YANG Xiao-ping, LI Yan, TAN Qi, LI Hui, ZHANG Xin-wei 1 (77)
- Contact Deformation and Friction Performance of Start-up for PVA/HA Composite Hydrogel
..... SHEN Yan-qiu, ZHANG De-kun, GE Shi-rong 2 (102)
- Preparation of Nano SiO_2/CeO_2 Composite Particles and Their Polishing Performance
..... XIAO Bao-qi, LEI Hong 2 (107)
- Investigation on Contact Form of Interface in Silicon Wafer CMP Based on Abrasion Behavior
..... SU Jian-xiu, DU Jia-xi, CHEN Xi-qu, ZHANG Xue-liang, GUO Dong-ming 2 (111)
- Tribological Properties of Diamond Films in Water Lubricated Environment
..... SHEN Bin, SUN Fang-hong, ZHANG Zhi-ming 2 (117)
- Structure and Tribological Properties of ALDLC Films Prepared by Medium Frequency Magnetron Sputtering.....
..... ZHANG Guang-an, WANG Peng, CHEN You-ming, WANG Xia, YAN Peng-xun, ZHANG Jun-yan 2 (122)
- Effect of Carbon Content on the Wear Performance of Magnetron Sputtered Cr/C Coatings

.....	JANG Bai-ling, SU Yang	2 (127)
Fabrication and Tribological Properties of Ti-Al Intermetallic Compound Solid Lubrication Film		
.....	LI Chang-sheng, ZHANG Ye, TAN Ming-xia, LIU Wan-zhang, SONG Xin-ya, QIAN Zhou	2 (132)
Tribological Performance and Mechanism of PMMA /SO ₂ Hybrid Nanocomposite as Lubricating Oil Additives		
.....	LI Chun-feng, CHEN Bo-shui, LUO Xin-m in, HOU B in	2 (138)
Corrosion Wear Characteristic of TC11 Alloy in Artificial Sea Water.....		
.....	DING Hong-yan, DAI Zhen-dong	2 (144)
Analysis of Adhesive Elastic Contact of Fractal Rough Surfaces with Small Tabor Numbers.....		
.....	SUN Li-ning, WANG Le-feng, RONG Wei-bin	2 (149)
Load Carrying Capacity of Parallel Movement Lubricated Rough Surfaces		
.....	YAO Hua-ping, HUANG Ping	2 (154)
Analysis of Nonlinear Dynamics of Dry Friction Oscillators with Symmetric Clearance		
.....	DING Wang-cai, ZHANG You-qiang, XIE Jian-hua	2 (160)
Abrasive Wear of the Biomimetic Ridge Surfaces Against Soil		
.....	TONG Jin, RONG Bao-jun, MA Yun-hai, ZHANG Jin-bo	3 (197)
Friction Behavior of Micro-scale Dimple Pattern under Mixed and Hydrodynamic Lubrication Condition		
.....	REN Jing-ri, ZHAO De-jin, CHAE Young-hun, KM Seock-sam	3 (202)
Effect of Texture Direction of Counterpart on Tribological Behavior of Nylon		
.....	HUANG Chuan-hui, ZHANG Yuan-yue, LI Zhi	3 (206)
Preparation, Characterization and Tribological Properties of Elastic Nanocomposite DLC Monolayers		
.....	CHENG Guang-gui, DING Jian-ning, LING Zhi-yong, KAN Biao, FAN Zhen, SHI Chao-yan	3 (212)
Comparative Study of the Friction and Wear Behavior and Wear Mechanism of Plasma Sprayed WC-12%Co Coatings Matched with Ceramic and Stainless Steel Balls under Dry Sliding Condition	YIN B in, ZHOU Hui-di,	
	CHEN Jian-m in, ZHAO Xiao-qin, AN Yu-long	3 (218)
Effect of Unbalanced Magnetron Sputtering MoS ₂ /Ti Composite Films on the Tribological Properties and Fretting Fatigue Behaviors of Ti6Al4V Alloy at Elevated Temperature	ZHANG Xiao-hua, LIU Dao-xin,	
	GAO Guang-rui, TANG Chang-bin, TANG B in	3 (224)
Effect of MoS ₂ Coated with Nickel on Tribological Properties of Ni-based Coating		
.....	PAN Jiao-liang, WANG Yin-zhen, LI Fang-po, GAO Hai-jun	3 (229)
Wear Property of Graphite and Al ₂ O ₃ Reinforced AZ91D-Mg Composites.....		
.....	ZHANG Mei-juan, LIU Yong-bing, YANG Xiao-hong, LUO Ke-shuai, AN Jian	3 (234)
Determination of Periodic Solution and its Stability of Sliding Bearing-rotor System Based on Observed States		
.....	LU Yan-jun, LIU Heng, DAI Rong, YU Lie, JANG Ming, KONG Ling-fei	3 (239)
A Numerical Model of Boundary Lubrication under Point Contacts		
.....	WANG Wei-zu, HUANG Ping	3 (243)
Influence of Contact Deformation of the Fractal Surfaces on the Partial Film Lubrication		
.....	LIU Hong-bin, WAN Da-ping, HU De-jin	3 (247)
Influence of Zn Monolayer , Multilayer , Gradient Film and Duplex Treatment on Solid Particle Erosion Behavior of Stainless Steel	XI Yun-tao, LIU Dao-xin, HAN Dong	4 (298)
Tribological Properties of Fe ₃ Si under Dry Friction and Water Lubrication		
.....	JIA Jian-gang, LU Jin-jun, MA Q in	4 (303)
Study on Tribological Behavior and Mechanism of Fullerene - like Hydrogenated Carbon (FL - C) Film Sliding Against Different Counterparts	WANG Xia, WANG Peng, ZHANG B in, YANG Sheng-rong, ZHANG Jun-yan	4 (310)
Numerical Simulation of Micro Bubble Collapse Near Solid Wall in Fluent Environment		
.....	LI J iang, CHEN Hao-sheng	4 (315)

Radial Nanofretting Behavior of Chromium Nitride (CrN_x) Film	
..... ZHANG Shuang, QIAN Lin-mao, MO Ji-liang	4 (321)
Study on the Model of Atomic Temperature Rising under the Forced Vibration	
..... GONG Zhong-liang, Ding Ling-yun, HUANG Ping	4 (326)
Influence of Micro Perturbation on Performance of Liquid Spiral Groove Mechanical Seal	
..... ZHOU Jian-feng, GU Bo-qin	4 (332)
An Elastic Ratchet Model and Scale Effect of Surface Topography on the Micro-nano Friction	
..... DONG Yun-kai, ZHANG Xiang-jun, LIU Ying, WEN Shi-zhu	4 (338)
Experimental Study of Transportation of Lubricants in Elastohydrodynamic Contacts	
..... GENG Mei-xiang, GUO Feng, LI Hai-ying	4 (344)
Tribological Properties of High Temperature Super Conductor $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$	
..... DONG Li-rong, LI Chang-sheng, HUA Min-qi, DING Qiao-dang	4 (350)
Accurate Solution of Transient Elastohydrodynamic Lubrication Line Contact Problems	
..... LU Hong-qiang	4 (355)
Dry Sliding Wear Map of the Copper-graphite Composite and the Copper Alloy ZQA19-4	
..... MA Wen-lin, LU Jin-jun	5 (393)
Influence of Ag-loading Nano- SiO_2 on Friction and Wear Behavior of Ultrafine Wool	
..... ZHU Yue, DAI Jin-ming, WEI Li-qiao, XU Bing-she	5 (399)
Molecular Dynamics Simulation of Friction and Energy Dissipation between Carbon Nanotube and Graphite Substrate	
..... LI Rui, HU Yuan-zhong, WANG Hui	5 (405)
Molecular Dynamic Simulation of Friction Performance of Cu//FeS Composite by In-situ Method	
..... HONG Zhen-jun, CHEN Jing-chao, FENG Jing, HU Fu-li	5 (410)
Simulation on Nanoscale Slider Gas Bearing by DSMC	
..... LAN Xu-dong, LI Zhi-xin	5 (415)
Wear Mode of Silicon Nitride Balls in Lapping Process	
..... LU Bing-hai, YUAN Ju-long, DAI Yong	5 (421)
Friction Properties of Poly (vinyl alcohol) /Hydroxylapatite Hydrogel Prepared by Compound in situ with Sol-gel Method	
..... Cheng Hui-nu, ZHANG De-kun, SHEN Yan-qiu, Huang Xiao-ya	5 (427)
Abrasive Resistance of Arc Sprayed Coatings Containing Fe-based Amorphous Phase	
..... FU Bin-you, HE Ding-yong, ZHAO Li-dong	5 (432)
Deposition and Tribological Performance of GLC Film on UHMWPE Substrate	
..... LI Zhong-li, HONG Chun-fu, LI Rui-ling, TU Jiang-ping, WANG Yan	5 (437)
Influence of Van Der Waals Force on Dynamic Character of Magnetic Head/Disk	
..... BAI Shao-xian, PENG Xu-dong, MENG Yong-gang, WEN Shi-zhu	5 (442)
Wear Mechanism of Cemented Carbide Tool in High Speed Machining Titanium Alloy (Ti-6Al-4V)	
..... LI You-sheng, DENG Jian-xin, ZHANG Hui, LI Jian-feng	5 (447)
Damage of Micro-diameter Cutter While Micro-Milling HPb63-3 Lead Brass	
..... YANG Kai, BAI Qing-shun, LIANG Ying-chun, WANG Bo, SUN Ya-zhou, ZHAO Yan	5 (452)
Analysis of Typic Wear Particles Based on Principal Component Classification	
..... LU Zhi-yong, YAN Xin-ping, PENG Ya-fang, WANG Feng	5 (456)
Research on the Key Technologies of Wear Particle On-line Monitoring System Based on Image	
..... LI Shao-cheng, ZUO Hong-fu, ZHANG Yan-bin	5 (462)
Anti-wear Mechanism of the Serpentine Powder as Self-repairing Additive	
..... CHEN Wen-gang, GAO Yuz-hou, ZHANG Hui-chen	5 (468)
Effects of CeO_2 on Structure and Wear Resistance of Laser Cladding WC-Co/Ni60B Coatings	

..... ZHANG Lei, CHEN Hua-hui, ZHAO Hui-you, CAO Hong-zhi, LU Qiu-sheng, NIE Fei-long	6 (490)
Influence of Bias Voltage on the Tribological Properties of Graphite-Like Carbon Coatings Prepared by Magnetron Sputtering	YAN Shao-ping, JIANG Bai-ling, SU Yang, ZHANG Yong-hong 6 (496)
Wear Behavior of in Situ Composite NiAl-Al ₂ O ₃ -TiC at High Temperature	 WANG Zhen-sheng, ZHOU Lan-zhang, Guo Jian-ting, Hu Zhuang-qi 6 (502)
Experimental Investigation on Anti-wear Function of Gear Surface with Microcosmic Form	 HAN Zhi-wu, DONG Li-chun, WANG Yu-jie, YIN Shi-qi, REN Lu-quan 6 (506)
Static Analysis of a Spiral-Groove Dry Gas Seal with an Inner Annular Groove.....	 PENG Xu-dong, TAN Li-li, SHENG Song-en, BAI Shao-xian, LI Ji-yun 6 (511)
Tribological Property of High-strength Steel Work-piece Subject to High Speed Machining Strengthening (HSMS) Surface Modification	LONG Zhen-hai, ZHAO Wen-xiang, DONG Shi-yun 6 (516)
Electrostatic Resistance for the Moving Plate in MEMS	 SHEN Xue-jin, HOU Li-cheng 6 (523)
Tribological Behavior of Ionic Liquid of 1-ethyl-3-octyl-imidazolium Diethylphosphonate as a Lubricant.....	 JIANG Dong, XU Bin, FENG Da-peng 6 (528)
Research of Fractal Contact Model on Contact Carrying Capacity of Two Cylinders' Surface	 HUANG Kang, ZHAO Han, CHEN Qi 6 (533)
Effect of Micro-palygorskite Powder in Base Oil on the Tribological Properties of Steel / Steel Rubbing Pair and Approach to Its Mechanism	HUANG Hai-peng, WANG Cheng-biao, YUE Wen, WEN Qing-feng, HU Bin, LIU Jia-jun 6 (540)

Application in engineering

High-speed Friction and Wear Behavior of Ultra-fine Grain Cemented Carbide	 PAN Yong-zhi, AI Xing, ZHAO Jun, LI Guang-ye, SONG Liang-yu 1 (82)
Electrical Sliding Wear Behavior of Al ₂ O ₃ /Cu Composite Prepared by Internal Oxidation	 XU Xiao-feng, SONG Ke-xing, LIU Rui-hua, GUO Xiu-hua 1 (87)
Effect of Artificial Perspiration on Tribological Properties of Human Skin	 LI Wei, KONG Mei, LIU Xi-dong, ZHOU Zhong-rong 1 (93)
Friction Surface and Wear Debris of Carbon-carbon Composites under Simulating Normal Braking Condition	 LI Jiang-hong, XIONG Xiang, ZHANG Hong-bo, XIAO Peng, HUANG Bai-yun 2 (166)
Friction and Wear Behavior of Copper-graphite Material under Electrical Current.....	 MA Xing-chi, HE Guo-qiu, HE Da-hai, CHEN Cheng-shu, HU Zheng-fei, ZHANG Wei-hua 2 (172)
Effect of Suspension Viscosity-temperature Characteristic on Tribological Properties of Abrasive Flow Machining Process	ZHAO Jia, FANG Liang, SUN Kun, MA De-xin 2 (177)
Influence of Initial Values Setting for Calculation of Thermal Finite Line Contact EHL Problems Using MLM I	 WU Wen-lei, SHEN Xue-jin, CHEN Xiao-yan, LI Ke-wei 2 (183)
Intrusion Map of Particle into Roller-scraper Tribosystem	 WU Tong-hai, DIAO Dong-feng 2 (188)
Fretting Wear of Stainless Steel Wires in Metal Rubber Damping Components	 DONG Xiu-ping, LIU Guo-quan, NIU Li, BAI Hong-bai, YANG Jian-chun 3 (253)
Failure Properties of Ceramic Ball Bearings of the Attitude Control Flywheel	 HUANG Dun-xin, BAI Yue, LI Hai-wen, WANG Qi-jun, WU Yi-hui 3 (259)
Analysis of Impact-sliding Wear Property of 20CrNiMo Steel.....	 WEI Yong-qiang, WANG Li-qin 3 (265)
Dry Slide Friction Wear Characteristics of As-cast Aluminum matrix Composite against Semimetallic Pad	

.....	JIN Yun-xue, Jung Moo Lee, Suk-Bong Kang	3 (271)
Study on Tribological Properties of Porous Polyimide Containing Lubricants		
.....	YAN Pu-xuan, ZHU Peng, HUANG Li-jian, WANG Xiao-dong, GU He-ping, HUANG Pei	3 (276)
Tribology Properties of Modified Rapeseed Oil Lubricating Additive Containing Boron		
.....	FANG Jian-hua, CHEN Bo-shui, DONG Lin, WANG Jiu	3 (281)
Simulation and Experimental Research on Three Dimensional Transient Temperature Field of Brake Shoe for Winder Disc Brake	ZHU Zhen-cai, SHI Zhi-yuan, PENG Yu-xing, CHEN Guo-an	4 (360)
Tribological Behavior of CrNMo Steel at Very High Speed and Elevated Temperature in Oxygen Atmosphere		
.....	DU San-ming, ZHANG Yong-zhen, LIU Wei-ming, QIU Ming	4 (365)
Chemical Mechanical Polishing of Copper in Glycine-H ₂ O ₂ System Slurry		
.....	ZHANG Wei, LU Xin-chun, LIU Yu-hong, LUO Jian-bin	4 (371)
Friction and Wear Properties of Benzoic Acid/Stearic Acid Titanium Complex Grease		
.....	CHEN Ji-guo, QU Jian-jun	4 (376)
Friction Performance of Ball Bearings Coated with MoS ₂ Compound Film in Vacuum		
.....	LI N Guan-yu, WANG Shu-rong, WANG Li-peng	4 (380)
Study on Tribological Behavior of 1.08% C Steel under Dry Friction at Low Temperature		
.....	WANG Hong-ling, YAN Feng-yuan	5 (474)
High Temperature Wear and Oxide Film of Steels		
.....	CHEN Kang-ming, WANG Shu-qi, YANG Zi-run, WANG Feng, CUI Xiang-hong, PAN Li	5 (479)
Experimental Investigation into Friction-vibration Coupling Characteristics of Vehicle Disc Brake		
.....	ZHANG Li-jun, Miao Wei-jia, YU Zhuo-ping	5 (484)
Tribological Properties of Seals in Integrated Transmission of Vehicle		
.....	GONG Ran, LI Hong-wu, ZHOU Xiao-jun	6 (545)
Friction and Wear of Polyimide Composites Sliding against Different Counterpart Materials		
.....	HUANG Li-jian, ZHU Peng, WANG Xiao-dong, SONG Yan-jiang, HUANG Pei	6 (550)
Friction Properties of Carbon Fabric Reinforced PES-C/PTFE Composites		
.....	ZHAO Pu, JIA Qian, WANG Qi-hua	6 (555)
The Study of Wear Evaluation in Reliability Test of Diesel Engine Based on Oil Analysis		
.....	SHENG Chen-xing, YAN Xin-ping, XU Tai-fu	6 (561)
Research on a Optimal Algorithm for the Prediction of Wear Loss		
.....	LU De-feng, ZUO Hong-fu, CAI Jing, WANG Ye	6 (566)
Review and Prospect of Particulate Lubrication		
.....	WANG Wei, LIU Kun	6 (575)

Review

New Progress of Research in Diamond Tool Wear of Nanometric Machining		
.....	LANG Ying-chun, GUO Yong-bo, CHEN Ming-jun	3 (288)
Development and Research Progress of Environmentally Friendly Lubricating Oil Additives		
.....	SUN Yu-bin, HU Li-tian, XUE Qun-ji	4 (387)
Comparative Analysis of Using “Coefficient of Friction” in Scientific and Technical Papers and Relevant Domestic and Foreign National Standards	HE Xue, PAN Ning, ZHOU Jin-fang	6 (580)

Forum for Experts

Research Progress on Wear of Materials		
.....	WEN Shi-zhu	1 (5)