

目 次

导流介质对真空导入模塑工艺树脂流动行为的影响 杨金水, 肖加余, 曾竟成, 彭超义, 冯学斌, 刘卓峰 (1)

炭黑-碳纤维填充双组分聚合物体系的导电网络及其阻温特性 沈 烈, 杨 辉, 钱跃程, 蔡云波, 黄海晓, 王方权 (9)

三锥针刺碳毡增强碳/氮化硼复合材料的力学和介电性能 张鹏飞, 张立同, 殷小玮, 程 瑜, 贺加贝 (15)

NiFe₂O₄/T-ZnO_w 复合材料的制备及磁性能 王 承, 于 美, 薛 峰, 刘建华, 李松梅 (21)

新型可降解 α-TCP/多元氨基酸共聚物复合材料制备与表征 李 鸿, 南景天, 吕国玉, 刘永磊, 罗小满, 严永刚 (26)

SiC-ZrO₂ 纳米颗粒协同强化 MoSi₂ 陶瓷的组织与性能 艾云龙, 刘长虹, 李玲艳, 何 文, 张剑平 (31)

不同配系自反应喷射成形复相陶瓷坯件的组织与性能 王建江, 刘宏伟, 胡文斌, 温晋华 (38)

原位聚合法制备纳米凹凸棒土/聚乳酸复合材料 庄 韦, 贾海军, 王 喆, 孙小强 (45)

碳纤维/双马树脂预浸料固化过程动态力学性能 谢 旻, 顾轶卓, 李 敏, 苏玉芹, 张佐光 (52)

高性能有机纤维单丝复合体系界面粘结性能实验研究 武海生, 孙志杰, 贾晶晶, 李 敏, 顾轶卓, 张佐光 (59)

高能量超声波改性 MWCNTs/环氧树脂特性分析 孟珍珍, 顾轶卓, 李 敏, 张佐光 (64)

复合材料构件热压罐成型工艺质量的群子理论分析 王雪明, 谢富原, 李 敏, 张佐光 (70)

聚芳基乙炔树脂基复合材料固化缺陷的产生机制 苗春卉, 李 敏, 王绍凯, 杨洁颖, 顾轶卓, 张佐光 (75)

三维夹层连织物复合材料真空辅助成型工艺影响因素 陶积栢, 王绍凯, 李 敏, 顾轶卓, 张佐光, 李志远 (81)

斜缝与 Z-pin 混合增强泡沫夹层复合材料力学性能实验研究 季苏东, 李 敏, 孙志杰, 张佐光, 王 旭 (87)

热压罐零吸胶工艺树脂压力在线测试及其变化规律 孙 凯, 李 敏, 顾轶卓, 辛朝波, 张佐光, 刘 军 (94)

改性酚醛树脂处理剂对石英纤维增强芳基乙炔复合材料性能的影响 王 勃, 王 超, 宋延华, 牛永安, 陈泽明 (100)

氨基三倍半硅氧烷/有机硅杂化涂层抗原子氧侵蚀 赵 伟, 李卫平, 刘慧丛, 朱立群 (106)

界面 ABS/PA6 共混体系脆切转变及断裂行为的影响 孙树林, 孙丽丽, 张会轩 (111)

聚氨酯/环氧树脂互穿网络半硬泡沫的力学性能及吸能特性 花兴艳, 赵培仲, 王源升, 朱金华 (118)

含裂纹功能梯度 Euler-Bernoulli 梁和 Timoshenko 梁的屈曲载荷计算与分析 魏 东, 刘应华 (124)

超薄金属内衬复合材料压力容器的结构分析 王荣国, 赫晓东, 胡照会, 刘文博, 施 军 (131)

混杂 CFRP/GFRP 筋 HPC 梁的非线性梁壳组合单元研究 张 剑, 周储伟, 雷 笑, 叶见曙, 卓家寿 (139)

纤维聚合物复合材料的有效湿扩散系数 杨建江, 杨庆生 (147)

对流换热边界条件的多孔材料主动散热性能 张 凯, 邓子辰, 周加喜 (152)

矩形组合截面四步法二次三维编织及其空间模型可视化 何红阁, 杨连贺, 陈 利 (160)

复合材料圆柱壳中心受横向集中载荷作用的渐进破坏非线性有限元分析 陆 浦, 王鑫伟 (168)

用变分渐近法进行复合材料层合板仿真及三维场重构 钟轶峰, YU Wenbin (174)

Z-pin 增强复合材料层合板断裂韧性试验研究 郑锡涛, 李泽江, 杨 帆 (180)

空心玻璃微珠填充环氧树脂复合材料力学性能 余 为, 李慧剑, 何长军, 梁 希, 贾英国 (189)

含孔天然纤维织物复合材料力学性能 王 戈, 陈复明, 程海涛, 李贤军 (195)

Keywords for composites (200)

《复合材料学报》征稿简则 (封三)

期刊基本参数: CN 11-1801/TB * 1984 * b * A4 * 200 * zh * P * ¥40.00 * 1100 * 31 * 2010-08

本期编辑: 崔艳妮 插图规范化: 孙艳杰
审 校: 孙丽娟 李玉彬

CONTENTS

Effect of distribution medium on resin flow behavior in vacuum infusion molding process YANG Jinshui, XIAO Jiayu, ZENG Jingcheng, PENG Chaoyi, FENG Xuebin, LIU Zhuofeng (1)

Conductive network formation and resistivity temperature dependence of binary polymer filled with carbon black and carbon fiber ... SHEN Lie, YANG Hui, QIAN Yuecheng, CAI Yunbo, HUANG Haixiao, WANG Fangquan (9)

Mechanical and dielectric properties of 3D needling carbon felt reinforced carbon/boron nitride composites ZHANG Pengfei, ZHANG Litong, YIN Xiaowei, CHENG Yu, HE Jiabei (15)

Preparation and magnetic properties of NiFe₂O₄/T-ZnO_w composites WANG Cheng, YU Mei, XUE Feng, LIU Jianhua, LI Songmei (21)

Novel degradable α -TCP/multi-(amino acid) copolymer composite: Preparation and characterization LI Hong, NAN Jingtian, LÜ Guoyu, LIU Yonglei, LUO Xiaoman, YAN Yonggang (26)

Microstructures and properties of nano-SiC-ZrO₂ particles synergistically strengthening and toughening MoSi₂ ceramics ... AI Yunlong, LIU Changhong, LI Lingyan, HE Wen, ZHANG Jianping (31)

Research on structure and performances of self-reactive spray formed multiphased ceramic preforms in different systems ... WANG Jianjiang, LIU Hongwei, HU Wenbin, WEN Jinhua (38)

Preparation of nano-attapulgite/poly lactide composites by in situ polymerization ZHUANG Wei, JIA Haijun, WANG Zhe SUN Xiaoqiang (45)

Dynamic mechanical analysis of the curing of carbon fiber/bismaleimide resin prepreg XIE Min, GU Yizhuo, LI Min, SU Yuqin, ZHANG Zuoguang (52)

Experimental study on the interfacial bonding properties of high-performance organic fibers in single fiber fragmentation test WU Haisheng, SUN Zhijie, JIA Jingjing, LI Min, GU Yizhuo, ZHANG Zuoguang (59)

Properties analysis of high energy ultrasonic wave treated multi-walled carbon nanotubes/epoxy resin MENG Zhenzhen, GU Yizhuo, LI Min, ZHANG Zuoguang (64)

Sub-cluster theory analysis of process quality for composite components by autoclave process WANG Xueming, XIE Fuyuan, LI Min, ZHANG Zuoguang (70)

Formation mechanism of curing defects in polyarylacetylene matrix composite MIAO Chunhui, LI Min, WANG Shaokai, YANG Jieying, GU Yizhuo, ZHANG Zuoguang (75)

Influence factors of vacuum assisted resin transfer molding process for 3D spacer fabric composites TAO Jibai, WANG Shaokai, LI Min, GU Yizhuo, ZHANG Zuoguang, LI Zhiyuan (81)

Experimental study on the mechanical properties of sandwich composite reinforced by bias stitching and Z-pin inserting JI Sudong, LI Min, SUN Zhijie, ZHANG Zuoguang, WANG Xu (87)

Resin pressure online measuring and evolution during autoclave zero-bleeding process SUN Kai, LI Min, GU Yizhuo, XIN Chaobo, ZHANG Zuoguang, LIU Jun (94)

Influence of modification phenolic resin surface treatment agent on the properties of silica fibers reinforced polyarylacetylene composites WANG Bo, WANG Chao, SONG Yanhua, NIU Yong'an, CHEN Zeming (100)

Atomic oxygen erosion resistance of aminopropylsilsesquioxane/silicone hybrid coating ZHAO Wei, LI Weiping, LIU Huicong, ZHU Liqun (106)

Effect of interface on brittle-ductile transition and fracture behavior of ABS/PA6 blends SUN Shulin, SUN Lili, ZHANG Huixuan (111)

Mechanical properties and energy absorption of semirigid PU/ER interpenetrating polymer networks foams HUA Xingyan, ZHAO Peizhong, WANG Yuansheng, ZHU Jinhua (118)

Buckling of functionally graded Euler-Bernoulli and Timoshenko beams with edge cracks WEI Dong, LIU Yinghua (124)

Structure analysis of composite pressure vessel with ultra-thin metallic liner WANG Rongguo, HE Xiaodong, HU Zhaohui, LIU Wenbo, SHI Jun (131)

Nonlinear beam-shell composite element of HPC beam mixed with CFRP/GFRP rebars ZHANG Jian, ZHOU Chuwei, LEI Xiao, YE Jianshu, ZHUO Jiashou (139)

Effective moisture diffusion coefficient of fiber polymer-matrix composite YANG Jianjiang, YANG Qingsheng (147)

Active heat dissipation of cellular materials with convection boundary conditions ZHANG Kai, DENG Zichen, ZHOU Jiaxi (152)

3D braiding technique of complex rectangular cross-section using twice four-step and visualization of 3D braided model HE Hongchuan, YANG Lianhe, CHEN Li (160)

Progressive failure nonlinear finite element analysis of cylindrical composite shells under a transversely centre concentrated load LU Pu, WANG Xinwei (168)

Simulation and 3D field recovery of composite laminated plates by use of variational asymptotic method ZHONG Yifeng, YU Wenbin (174)

Experimental investigation on the fracture toughness of Z-pins reinforced composite laminates ZHENG Xitao, LI Zejiang, YANG Fan (180)

Mechanical properties of epoxy resin filled with hollow glass bead YU Wei, LI Huijian, HE Changjun, LIANG Xi, JIA Yingguo (189)

Mechanical properties of natural fiber textiles laminate with hole WANG Ge, CHEN Fuming, CHENG Haitao, LI Xianjun (195)