

医用生物力学

YIYONG SHENGWU LIXUE

双月刊 1986年6月创刊 第31卷 第6期 2016年12月出版



[期刊基本参数] CN 31-1624/R * 1986 * b * A4 * 96 * zh + en * P * ¥15.00 * 2000 * 16 * 2016-12

主管
中华人民共和国教育部

主办
上海交通大学

承办
上海交通大学医学院附属
第九人民医院

出版
《医用生物力学》编辑部

编辑部
地址 上海市制造局路639号
邮编 200011
电话 (021)53315397
传真 (021)63137020
电子邮件 shengwulixue@163.com

网址
<http://www.medbiomechanics.com>
<http://www.mechanobiology.cn>

微博
<http://weibo.com/u/2040064195>

广告部 水 汶

主编
戴焯戎

常务副主编
姜宗来

副主编
陈维毅 樊瑜波 龙 勉
秦 岭 郑诚功

编辑部主任
于志锋
E-mail: zfyu@outlook.com

责任编辑
徐 绮
E-mail: 1534340082@qq.com

英文编辑
吴晓芸

编辑
《医用生物力学》编辑委员会

印刷
上海新开宝商务印刷有限公司

国内发行
上海市报刊发行局

国外总发行
中国国际图书贸易总公司

订购
全国各地邮局
邮发代号 4-633

定价
每期:15.00元 全年90.00元

国内统一连续出版物号
CN 31-1624/R

国际标准连续出版物号
ISSN 1004-7220
CODEN YSLIBU

广告经营许可证号
3100120050036

©2016 年版权归《医用生物力学》编辑部所有

目次(卷终)

专家论坛

从国家自然科学基金的申请与资助看生物力学的发展
..... 王建山,张攀峰,詹世革(467)

述评

康复辅具与生物力学
..... 樊瑜波,蒲放(476)

康复工程专栏

大腿截肢患者的残肢肌电运动识别
..... 张腾宇,樊瑜波(478)

踝关节内翻防护型半刚性踝护具的力学特征
..... 孟强,关国平,牛文鑫,王璐(483)

个性化扁平足矫形鞋垫的生物力学研究
..... 苏宏伦,郭俊超,莫中军,樊瑜波(490)

基于不同刚体模型对老年女性步态的仿真研究
..... 袁晓平,郑明星,杜正,李旭鸿(495)

下肢不等长对步态影响的实验分析
..... 宋亮,邢阳辉,康婷,樊瑜波(501)

背向行走足底压力分布特征对平衡能力的影响
..... 王新亭,任静,苏海龙,张峻霞,张琰(506)

基于希尔伯特-黄变换人步行状态髋关节角度信号的分析方法
..... 张春新,张文光,马亚坤,孙晓文(513)

假肢手接受腔恒力挤压块设计
..... 刘杰民, Daniel SU, 桑元俊,李祥,罗云(520)

论著

基于流固耦合模型的SUI患者尿液动力学研究
..... 张小军,焦贺贺,李晓阳(525)

不同载荷作用下头部生物力学响应仿真分析
..... 毛征宇,李泽民,牛文鑫,蔡志华(532)

OSAHS患者自然睡眠期呼吸模式对上气道流场的影响
..... 陈柳洁,张湘民,肖潭(540)

新型锁定钢板与AO-PHILOS钢板固定肱骨近端四部分骨折的三维有限元分析
..... 章伟,芮碧宇,潘垚,傅士平,张明,张云龙,薛培璘,陈云丰(548)

综述

骨组织疲劳损伤的生物力学研究概述
..... 李昊,张西正(556)

推拿手法抗眩晕效应的量化及作用机制
..... 李黎,吴山,范志勇(562)

信息

《医用生物力学》杂志征稿、征订启事(475),《医用生物力学》2016年第31卷总目次(566),《医用生物力学》2016年第31卷第1~6期关键词、作者索引(569,573),致审稿专家感谢信(封二),国家康复辅具研究中心简介(封三)

JOURNAL OF MEDICAL BIOMECHANICS

Published Bimonthly

Founded in June, 1986

Volume 31 Number 6, Dec. 2016

[Journal Basic Information] CN 31-1624/R * 1986 * b * A4 * 96 * zh + en * P * ¥15.00 * 2000 * 16 * 2016-12

Supervised by

Ministry of Education of
People's Republic of China

Sponsored by

Shanghai Jiao Tong University

Organized by

Shanghai Ninth People's Hospital,
Shanghai Jiao Tong University
School of Medicine

Published by

Editorial Office of
Journal of Medical Biomechanics

Editorial Office

No. 639 Zhizaoju Rd.,
Shanghai 200011, China

Tel: + 86 21 53315397

Fax: + 86 21 63137020

E-mail: shengwulixue@163.com

Website:

<http://www.medbiomechanics.com>

<http://www.mechanobiology.cn>

Microblog:

<http://weibo.com/u/2040064195>

Advertising division: SHUI Wen

Editor-in-Chief

DAI Ke-rong

Executive Vice Editor-in-Chief

JIANG Zong-lai

Associate Editors-in-Chief

CHEN Wei-yi CHENG Cheng-kung

FAN Yu-bo LONG Mian

QIN Ling

Editorial Director

YU Zhi-feng

E-mail: zfyu@outlook.com

Executive Editor

XU Qi

E-mail: 1534340082@qq.com

English Editor

WU Xiao-yun

Edited by

Editorial Board of

Journal of Medical Biomechanics

Printed by

Shanghai Newcabo Printing Co., Ltd

Overseas Distributor

China International Book

Trading Cooperation

China Standard Serial Numbering

ISSN 1004-7220

CN 31-1624/R

CODEN YSLIBU

Subscription

Yearly Subscription Rates: 90.00 RMB

Single Issue: 15.00 RMB

Advertising Management License Number

3100120050036

Copyright © 2016 by the Editorial

Board of Journal of Medical Biomechanics

Contents (End of Volume)

Invited Reviews

Discussions on the development of biomechanics based on applications and grants of NSFC

..... WANG Jian-shan, ZHANG Pan-feng, ZHAN Shi-ge (467)

Biomechanics and rehabilitation technical aids

..... FAN Yu-bo, PU Fang (476)

Special Issue

Motion recognition based on EMG signals of residual limb in transfemoral amputee

..... ZHANG Teng-yu, FAN Yu-bo (478)

Mechanical characteristics of a semi-rigid ankle brace for protecting ankle varus

..... MENG Qiang, GUAN Guo-ping, NIU Wen-xin, WANG Lu (483)

Biomechanical study on the personalized orthopedic insoles for flatfoot

..... SU Hong-lun, GUO Jun-chao, MO Zhong-jun, FAN Yu-bo (490)

A simulation study on gait in elderly women based on different rigid-body models

..... YUAN Xiao-ping, ZHENG Ming-xing, DU Zheng, LI Xu-hong (495)

Effects of leg length discrepancy on gait: An experimental study

..... SONG Liang, XING Yang-hui, KANG Ting, FAN Yu-bo (501)

The impact of plantar pressure distribution characteristics on balance ability during backward walking

..... WANG Xin-ting,
REN Jing, SU Hai-long, ZHANG Jun-xia, ZHANG Yan (506)

Method for analyzing the signal of hip joint angles during human walking using Hilbert-Huang transform

..... ZHANG Chun-xin, ZHANG Wen-guang, MA Ya-kun, SUN Xiao-wen (513)

Design of constant-force extrusion unit for hand prosthesis socket

..... LIU Jie-min, Daniel SU, SANG Yuan-jun, LI Xiang, LUO Yun (520)

Original Articles

Urodynamics study of SUI patients based on the fluid-structure interaction model

..... ZHANG Xiao-jun, JIAO He-he, LI Xiao-yang (525)

The simulation analysis on biomechanical responses of human head under different loading conditions

..... MAO Zheng-yu, LI Ze-min, NIU Wen-xin, CAI Zhi-hua (532)

Effects of breathing patterns on flow field in upper airway of an OSAHS patient during natural sleep

..... CHEN Liu-jie, ZHANG Xiang-min, XIAO Tan (540)

Three-dimensional finite element analysis on the novel locking plate and AO-PHILOS plate for fixing four-part proximal humeral fractures

..... ZHANG Wei, RUI Bi-yu, PAN Yao, FU Shi-ping,
ZHANG Ming, ZHANG Yun-long, XUE Pei-lin, CHEN Yun-feng (548)

Review Articles

Review of biomechanical researches on fatigue damage in bone

..... LI Hao, ZHANG Xi-zheng (556)

Quantification of anti-vertigo effect by Tuina manipulation and its mechanism

..... LI Li, WU Shan, FAN Zhi-Yong (562)

News and Announcement

..... (475) (566) (569) (573)