



ZHONGCAOYAO

Chinese Traditional and Herbal Drugs

第 57 卷 第 17 期 (总第 820 期)

2026 年 9 月 12 日出版

半月刊

1970 年 1 月创刊

主 管

天津药物研究院

主 办

天津药物研究院 (www.tjipr.com)

中 国 药 学 会 (www.cpa.org.cn)

编辑出版

《中草药》编辑部

地址: 天津市滨海新区滨海科技园

惠仁道 306 号

邮编: 300462

电话: 022-27474913 23006821

网址: www.tiprpress.com

www.中草药杂志社.中国

E-mail: zcy@tiprpress.com

国际标准连续出版物号

ISSN 0253-2670

国内统一连续出版物号

CN 12-1108/R

主 编 陈士林

执行主编 陈常青

目 次

· 专 论 ·

- 6661 质量属性导向的中药质量控制范式变革 钱忠直, 于江泳

· 化学成分 ·

- 6669 斜叶黄檀中 1 个新的异黄酮类化合物
熊亚兰, 朱 敏, 廖土花, 卢澄生, 黄婧琳, 王广贤, 韦建华
梁臣艳, 冯 旭
- 6677 柚木中 2 个新的萜醌及其抗真菌活性
黄春球, 的日克拉, 全咏洁, 杜文豪, 杨 野, 左爱学
肖 艳, 江志勇
- 6682 夏枯草水解寡糖组分的分离、结构解析与体外抗氧化及肠道菌群丰富度
调节作用
栗依诺, 黄佳琪, 董一凡, 马伶俐, 赵 鑫, 李 雪, 杨文志
- 6701 基于特征分子网络技术分析远志寡糖酯在大鼠体内的代谢产物
魏 颖, 杨湘芬, 关庚明, 王子欣, 牛振宇, 宋青青

· 药剂与工艺 ·

- 6715 Box-Behnken 设计-效应面法优化氯化两面针碱脂质体处方工艺及体外
抗胆管癌活性研究
黄艳秋, 丘炜桢, 陈海燕, 彭诗雅, 苏明哲, 刘 悦, 叶 勇
- 6730 三叶苷-磷脂复合物/壳聚糖纳米粒的制备、口服药动学及对急性肝损伤
保护作用评价
姚 杰, 姬新颖, 王赞华, 张体鹏, 时艳华, 杜 娟
尚慧杰, 张付利
- 6743 基于热分析-电子感官技术的山楂炭炮制工艺优化与止泻作用研究
孙 琳, 魏冰斌, 王 瑛, 刘莹莹, 孟祥龙, 闫晓宁, 张朔生
- 6755 红芪蜜炙前后黄酮类、皂苷类成分含量测定与指纹图谱研究
柴梦娜, 窦芬瑜, 吕瑞龙, 马定财, 刘 婷, 辛二旦
张育贵, 李越峰
- 6766 高乌甲素自胶束化固体分散体缓释片的制备、药动学及毒动学研究
王 丽, 王 凯, 韩淑华, 刘广辉, 高小玲, 宋沛然, 薛佳琦
- 6779 雪松醇纳米混悬剂的制备及其治疗雄激素性脱发的药效学研究
官 鹭, 戴逸潇, 王 线, 雷万锋, 李 平, 卢 山
郭瑜婕, 洪 怡

· 药理与临床 ·

- 6793 基于 Nrf2/GPX4 信号通路研究补阳还五汤对糖尿病认知障碍大鼠的
改善作用及机制
赵博深, 安宇宇, 李樱楠, 孙泽莹, 史永恒, 韩朝军, 王 川
王 斌, 米燕妮, 刘继平
- 6807 新疆阿魏叶水提物入血成分鉴定及通过调控 JAK2/STAT3 通路改善
酒精性胃炎的机制研究
王德玺, 刘 晶, 张海英, 李 茜, 范芳芳, 赵生俊
- 6820 基于线粒体动力学探究白芍多糖防治肝纤维化肝阴虚证大鼠的作用机制
王瑞博, 李 丽, 华姑安, 邵丹玥, 金振辉, 董俐珑, 林颖焘
贾 岚, 李 伟, 范晓旭, 王景霞
- 6832 枳术宽中胶囊通过调节 JAK2/STAT3 通路与肠脑轴改善溃疡性结肠炎
及抑郁样行为
杨佳莉, 唐婧月, 余学成, 苏文龙, 陈霖霖, 曹国胜



ZHONGCAOYAO

Chinese Traditional and Herbal Drugs

第 57 卷 第 17 期 (总第 820 期)

2026 年 9 月 12 日出版

广告合作

中草药杂志社媒体运营部

电话: 022-23006868 23006895

印 刷

天津市恒远印刷有限公司

国内发行

天津市邮政局

订 阅

全国各地邮政局

国外发行

中国国际图书贸易集团有限公司

(100044 北京 399 信箱)

国内邮发代号

6-77

国外邮发代号

M221

定价

每期 60.00 元 全年 1440.00 元

英文责任编辑

陈雨虹

本期责任编辑

赵慧亮

6848 基于脾脏转录组学探究驴胶补血颗粒改善大鼠产后气血双虚症状的作用机制

程 帆, 陈晓翌, 颜冬兰, 黄 胜, 张宏宇, 田俊生

6859 淫羊藿苷改善肾虚血瘀型膝骨关节炎大鼠关节炎症的机制研究

许祎莹, 李远栋, 刘 畅, 马常荣, 张君涛, 刘爱峰

• 数据挖掘与循证医学 •

6867 基于分子结构跨域泛化的中药成分相互作用预测研究

程 宁, 曾湘祥, 宋学坤

6878 胶囊缺陷实时检测的 DWG-CA-YOLOv8 算法

彭旭龙, 王生生, 姚 添, 万倾兆, 毛志雄, 伍振峰, 杨 明

彭常春, 王雅琪

6887 基于自然语言处理和深度学习模型的中药黄芪主题建模分析

李建阳, 杨移佳, 王 鹭, 彭焕蕊, 曾晓芳, 梁京京, 张 伟

郑文江, 里自然

6901 基于文献计量学中医药防治糖尿病认知功能障碍研究现状及热点可视化分析

潘 莹, 熊梦琪, 喻兆湘颖, 郑格格, 蔡静雯, 宣自华, 蔡 明

• 药材与资源 •

6921 黑果枸杞 *LrMATE* 基因家族鉴定及花青素转运与积累相关候选基因筛选

许云章, 赵海豹, 吴 鑫, 殷恒霞, 武振中, 刘 圆, 李强峰

6935 基于代谢组学与蛋白质组学的不同生长年限葛根成分差异性分析

魏平慧, 张 欢, 陈 凯, 赵 剑, 徐 兵, 吴 波, 何绍浪

尚小红, 史 琳

6946 基于指纹图谱和多成分定量结合化学模式识别法评价不同产地狭叶薰衣草的质量

王 聪, 朱静平, 刘仟禧, 陈祥相, 张 淋, 李红伟, 尹海龙

尹 强, 李 凯

6955 不同产地二色补血草多指标定量联合化学计量学及 TOPSIS-GRA 模型的质量差异评价

唐志华, 吴 芳, 张 钊, 余露山

6965 不同产地南柴胡多指标定量及化学计量学联合 CRITIC-TOPSIS 法的质量差异评价

孙仁爽, 马承俊, 李东飞, 白 静, 周泓妍, 朱华云, 顾地周

• 综 述 •

6973 基于扶正祛邪理论的中医药治疗结直肠癌恶液质方药规律及药理机制研究进展

谢贞明, 王镜辉, 黄雯琪, 吴 娇, 李 高, 王定雪, 贺 凡

吴文宇, 唐东昕

6985 中药干法制粒工艺放大关键技术瓶颈与多尺度数字建模应用研究进展

管咏梅, 赵子波, 刘乐灵, 杨 明, 李糯柔, 易 秀, 臧振中

6998 石斛的历史源流、产业现状与发展策略

谢清华, 马林纳, 于文俊, 樊新荣

7010 松花粉干预代谢性疾病的机制与临床转化研究进展

叶祖文, 姚乃荣, 侯林平, 杜 转, 张 晨, 贺亚男, 杨启悦

7023 芪参益气滴丸治疗冠心病的作用机制与研究进展

赵泊莹, 尹艺璇, 王欣鑫, 王梓旗, 韩 雨, 赵 宁, 李春洁

7033 基于“因势利导”探讨中药双向调节作用的“势”学理论内涵

张 赛, 胡锦鹏, 陈 莉, 余思佳, 樊明媛, 袁久术, 姚洪元

谢红艳, 袁海波, 谢春光, 高 泓

7046 中药多糖调控胶质细胞改善神经炎症损伤的研究进展

魏 星, 冯 鹏, 薛付春, 姚景曦, 孙可馨, 黄 爽, 史正刚

7061 钙信号通路在植物重金属吸收与耐受中的调控机制研究进展

唐树爽, 郑泰雄, 陈 迪, 代 凯, 魏富刚, 王艳林, 曹冠华, 贺 森

本刊投稿须知见《中草药》2026, 57(1): 390-392.

期刊基本参数: CN 12-1108/R * 1970 * sm * A4 * 240 * zh * P * ¥ 60.00 * 3000 * 34 * 2026-17

CHINESE TRADITIONAL AND HERBAL DRUGS

Vol. 57 No. 17

September 2026

Chinese Traditional and Herbal Drugs

(Semimonthly)

Founded in January, 1970

Supervised by

Tianjin Institute of Pharmaceutical Research

Sponsored by

Tianjin Institute of Pharmaceutical Research

(www.tjipr.com)

Chinese Pharmaceutical Association

(www.cpa.org.cn)

Edited and Published by

Editorial Office of Chinese Traditional

and Herbal Drugs

Address: 306# Huirendao, Binhai District,
Tianjin, China

Post Code: 300462

Tel: +86-22-27474913

Fax: +86-22-23006821

http: // www.中草药杂志社.中国

www.tiprpress.com

E-mail: zcy@tiprpress.com

Standard Number

ISSN 0253-2670

CN 12-1108/R

CODEN CTYAD8

Editor-in-chief

CHEN Shilin

Executive Editor-in-chief

CHEN Changqing

Contents

• Special Topic •

- 6661** Quality attribute-oriented paradigm transformation in quality control of traditional Chinese medicines
QIAN Zhongzhi, YU Jiangyong

• Chemical Constituents •

- 6669** A new isoflavone compound isolated from *Dalbergia pinnata*
XIONG Yalan, ZHU Min, LIAO Tuhua, LU Chengsheng, HUANG Sulin, WANG Guangxian, WEI Jianhua, LIANG Chenyan, FENG Xu
- 6677** Two new naphthoquinones from leaves of *Tectona grandis* and their antifungal activity
HUANG Chunqiu, DI-RI Ke-La, QUAN Yongjie, DU Wenhao, YANG Ye, ZUO Aixue, XIAO Yan, JIANG Zhiyong
- 6682** Isolation and structural elucidation of hydrolyzed oligosaccharide components from *Prunella vulgaris* and their *in vitro* antioxidant and gut microbiota abundance-modulating effects
LI YINUO, HUANG Jiaqi, DONG Yifan, MA Lingli, ZHAO Xin, LI Xue, YANG Wenzhi
- 6701** Metabolic profiling of oligosaccharide esters of *Polygala tenuifolia* in rats based on feature-based molecular networking
WEI Ying, YANG Xiangfen, GUAN Gengming, WANG Zixin, NIU Zhenyu, SONG Qingqing

• Pharmaceuticals and Technology •

- 6715** Study on formulation optimization of nitidine chloride liposomes by Box-Behnken design-response surface method and anti-cholangiocarcinoma activity *in vitro*
HUANG Yanqiu, QIU Weian, CHEN Haiyan, PENG Shiya, SU Mingzhe, LIU Yue, YE Yong
- 6730** Trifolin-phospholipids complex/chitosan nanoparticles: Preparation, oral pharmacokinetics *in vivo* and evaluation of protective effect on acute liver injury
YAO Jie, JI Xinying, WANG Yunhua, ZHANG Tipeng, SHI Yanhua, DU Juan, SHANG Huijie, ZHANG Fuli
- 6743** Study on optimization of processing technology and antidiarrheal efficacy of *Crataegi Fructus Charcoal* based on thermal analysis-electronic sensory technology
SUN Lin, WEI Bingbin, WANG Ying, LIU Yingying, MENG Xianglong, YAN Xiaoning, ZHANG Shuosheng
- 6755** Determination and fingerprint analysis of flavonoids and saponins in *Hedysari Radix* before and after honey-processing
CHAI Mengna, DOU Fenyue, LYU Ruilong, MA Dingcai, LIU Ting, XIN Erdan, ZHANG Yugui, LI Yuefeng
- 6766** Preparation, pharmacokinetics and toxicokinetics study of lappaconitine-self-micellizing solid dispersion sustained-release tablets
WANG Li, WANG Kai, HAN Shuhua, LIU Guanghui, GAO Xiaoling, SONG Peiran, XUE Jiaqi
- 6779** Preparation of cedrol nanosuspension and its pharmacodynamic study on treatment of androgenetic alopecia
GUAN Lu, JI Yixiao, WANG Xian, LEI Wanfeng, LI Ping, LU Shan, GUO Yujie, HONG Yi

• Pharmacological Studies and Clinical Observations •

- 6793** Improvement effect and mechanism of Buyang Huanwu Decoction on rats with diabetic cognitive impairment based on Nrf2/GPX4 signaling pathway
ZHAO Boshen, AN Yuyu, LI Yingnan, SUN Zexuan, SHI Yongheng, HAN Chaojun, WANG Chuan, WANG Bin, MI Yanni, LIU Jiping
- 6807** Identification of blood-entry components in *Ferula sinkiangensis* leaf aqueous extract and its mechanism of ameliorating alcoholic gastritis by regulating JAK2/STAT3 signaling pathway
WANG Dexi, LIU Jing, ZHANG Haiying, LI Qian, FAN Fangfang, ZHAO Shengjun
- 6820** Mechanism of *Paeonia lactiflora* polysaccharides in preventing and treating liver fibrosis with liver *yin* deficiency syndrome in rats based on mitochondrial dynamics
WANG Ruibo, LI Li, HUA Ji'an, SHAO Danyue, JIN Zhenhui, DONG Lilong, LIN Yingtao, JIA Lan, LI Wei, FAN Xiaoxu, WANG Jingxia
- 6832** Zhizhu Kuanzhong Capsule improves ulcerative colitis and depression-like behaviors by regulating JAK2/STAT3 pathway and gut-brain axis
YANG Jiali, TANG Jingyue, YU Xuecheng, SU Wenlong, CHEN Linlin, CAO Guosheng

Chinese Traditional and Herbal Drugs

(Semimonthly)

Founded in January, 1970

Advertising cooperation

Department of Media Operations, Tianjin

Press of Chinese Herbal Medicines

Tel: (022)23006868 23006895

Printed by

Tianjin Hengyuan Printing Co., Ltd.

Distribution

Tianjin Post Office

Subscription Domestic

Local Post Office

Subscription Overseas

China International Book Trading Corporation,

PO Box 399, Beijing 100044, China

Publication Date

Sept. 12, 2026

Editor in Charge of English

CHEN Yuhong

Editor in Charge of This Issue

ZHAO Huiliang

- 6848** Mechanism of Lvjiao Buxue Granules in improving postpartum *qi* and blood deficiency symptoms in rats based on spleen transcriptomics
CHENG Fan, CHEN Xiaoyi, YAN Donglan, HUANG Sheng, ZHANG Hongyu, TIAN Junsheng
- 6859** Mechanism of icariin in ameliorating joint inflammation in rats with kidney deficiency and blood stasis type knee osteoarthritis
XU Yixuan, LI Yuandong, LIU Chang, MA Changrong, ZHANG Juntao, LIU Aifeng
- **Data Mining and Evidence-Based Medicine** •
- 6867** Prediction of traditional Chinese medicine component interactions via cross-domain generalization of molecular structure
CHENG Ning, ZENG Xiangxiang, SONG Xuekun
- 6878** DWG-CA-YOLOv8 algorithm for real-time detection of capsule defect
PENG Xulong, WANG Shengsheng, YAO Tian, WAN Qingzhao, MAO Zhixiong, WU Zhenfeng, YANG Ming, PENG Changchun, WANG Yaqi
- 6887** Topic modeling analysis of *Astragali Radix* based on natural language processing and deep learning models
LI Jianyang, YANG Yijia, WANG Ao, PENG Huanrui, ZENG Xiaofang, LIANG Jingjing, ZHANG Wei, ZHENG Wenjiang, LI Ziran
- 6901** Visual analysis of research status and hotspots of traditional Chinese medicine in prevention and treatment of cognitive dysfunction in diabetes based on bibliometrics
PAN Ying, XIONG Mengqi, YU Zhaoxiangying, ZHENG Gege, CAI Jingwen, XUAN Zihua, CAI Ming
- **Medicinal Materials** •
- 6921** Genome-wide identification of *LrMATE* gene family in *Lycium ruthenicum* and screening of candidate genes associated with anthocyanin transport and accumulation
XU Yunzhang, ZHAO Haibao, WU Xin, YIN Hengxia, WU Zhenzhong, LIU Yuan, LI Qiangfeng
- 6935** Differential analysis of components in *Pueraria lobata* from different growth years based on metabolomics and proteomics
WEI Pinghui, ZHANG Huan, CHEN Kai, ZHAO Jian, XU Bing, WU Bo, HE Shaolang, SHANG Xiaohong, SHI Lin
- 6946** Quality evaluation of *Lavandula angustifolia* from different origins based on fingerprint combined with multi-component quantification and chemical pattern recognition
WANG Cong, ZHU Jingping, LIU Qianxi, CHEN Xiangxiang, ZHANG Lin, LI Hongwei, YIN Hailong, YIN Qiang, LI Kai
- 6955** Quality difference evaluation of multi-index quantitative determination combined with chemometrics and TOPSIS-GRA model of *Limonium bicolor* from different producing areas
TANG Zhihua, WU Fang, ZHANG Ke, YU Lushan
- 6965** Quality difference evaluation of *Bupleurum scorzonrifolium* from different producing areas by multi-index quantitative analysis combined with chemometric CRITIC-TOPSIS method
SUN Renshuang, MA Chengjun, LI Dongfei, BAI Jing, ZHOU Hongyan, ZHU Huayun, GU Dizhou
- **Reviews** •
- 6973** Research progress on prescription and medication patterns and pharmacological mechanisms of traditional Chinese medicine for colorectal cancer cachexia based on theory of reinforcing healthy *qi* and dispelling pathogen
XIE Zhenming, WANG Jinghui, HUANG Wenqi, WU Jiao, LI Gao, WANG Dingxue, HE Fan, WU Wenyu, TANG Dongxin
- 6985** Key technical bottlenecks in process scale-up of traditional Chinese medicine dry granulation and application of multi-scale digital modeling
GUAN Yongmei, ZHAO Zibo, LIU Leling, YANG Ming, LI Nuorou, YI Xiu, ZANG Zhenzhong
- 6998** Historical origins, current industrial status, and development strategies of *Dendrobii Caulis*
XIE Qinghua, MA Linna, YU Wenjun, FAN Xinrong
- 7010** Research progress on mechanisms and clinical translation of *Pini Pollen* for intervening in metabolic diseases
YE Zuwen, YAO Nairong, HOU Linping, DU Zhuan, ZHANG Chen, HE Yanan, YANG Qiyue
- 7023** Mechanism and research progress of Qishen Yiqi Dropping Pills in treatment of coronary heart disease
ZHAO Boxuan, YIN Yixuan, WANG Xinxin, WANG Ziqi, HAN Yu, ZHAO Ning, LI Chunjie
- 7033** Exploring theoretical connotation of “potential” in bidirectional regulatory effects of traditional Chinese medicine based on “guiding according to trends”
ZHANG Sai, HU Jinpeng, CHEN Li, YU Sijia, FAN Mingyuan, YUAN Jiushu, YAO Qiyuan, XIE Hongyan, YUAN Haipo, XIE Chunguang, GAO Hong
- 7046** Research progress on traditional Chinese medicine polysaccharides for ameliorating neuroinflammatory injury via regulation of glial cells
WEI Xing, FENG Peng, XUE Fuchun, YAO Jingxi, SUN Kexin, HUANG Shuang, SHI Zhenggang
- 7061** Research progress on regulatory mechanisms of calcium signaling pathways in plant heavy metal uptake and tolerance
TANG Shushuang, ZHENG Taixiong, CHEN Di, DAI Kai, WEI Fugang, WANG Yanlin, CAO Guanhua, HE Sen