中国联合国教科文组织指导刊物 CSSCI来源期刊 全国中文核心期刊 RCCSE 中国核心学术期刊(A) AMI综合评价A刊 刊名题字:苏步青

ISSN 1004–9894 CN 12–1194/G4

上学教育学报

SHUMUE JIAOYU MUEBAO

JOURNAL OF MATHEMATICS EDUCATION

OURNAL OF MATHEMATICS EDUCATIO







第28卷 第4期 Vol.28 No.4

报

月

数 学 教 育 学 报

SHUXUE JIAOYU XUEBAO JOURNAL OF MATHEMATICS EDUCATION 2019 年 8 月 第 28 卷第 4 期 Vol.28 No.4 (总第 127 期)

目 次

PISA 专栏

变与不变: PISA2000—2021 数学测评框架的沿革	曹一鸣, 朱忠明(1)
PISA2021 数学素养测评框架评介董连	春,吴立宝,王立东(6)
PISA2021 数学素养测评框架中的"21 世纪技能" 孙彬‡	專,郭 ,邵珍红(12)
PISA 数学测评内容和情境演变及其启示于国文, F	东鹏举,冯启磊,等(17)
"问题提出"专栏	
小学数学教师"问题提出"的教学信念研究	周莞婷,陈 婷,等(24)
用"问题提出"诊断和评估数学教师的概念性理解姚一王	令,徐冉冉,蔡金法(30)
问题提出中数学交流的模式构建与案例解析张 五	令,宋乃庆,蔡金法(37)
数学"问题提出"教学的理论基础和实践研究	蔡金法,姚一玲(42)
教科书研究	
近二十年中国中小学数学教科书研究综述——基于 CiteSpace 知识图谱分析	吕世虎,彭燕伟(48)
中高考研究	
新高考改革背景下数学试卷与课标一致性研究——以 2017—2018 年全国Ⅱ卷与浙江卷为例	张定强,裴阳(55)
基于核心概念的数学测评解析与教学建议——以重庆市 2018 年中考数学试题(A卷)为例	张 斌, 苟斌娥(61)
小学数学教育	
小学数学"深度学习"教学策略研究	程明喜(66)
中学民族数学教育	
高中数学教师资格国考试题分析——以"学科知识与教学能力"科目为例	云,黄永明,计双艳(71)
初中阶段"统计与概率"课程内容的几点建议与调查	凌晓牧,章 飞(77)
大学数学教育	
高等数学教学中创新思维培养:问题与对策王立冬,引	张春福,陈东海,等(81)
少数民族数学教育	
文化共生理念下民族数学教育问题反思性研究——兼议民族数学文化融入数学教育思想	姚闳耀,杨维平(85)
教育统计	
教育研究中的 P 值使用:问题及对策——兼谈效应量的使用	辉,范涌峰,陈 婷(92)
会议纪要	
核心素养视角下的中国数学教育研究——2019年全国数学教育研究学术年会暨《数学教育学报》理	皇事会和编委会工作会议纪要

♡**补白**♡ 会讯(-60-) 通知(-91-)

期刊基本参数: CN 12-1194/G4*1992*B*A4*102*zh*P*¥10.00*5000*18*2019-04

JOURNAL OF MATHEMATICS EDUCATION

Vol.28 No.4 Aug. 2019

CONTENTS

Change and Invariant: The Evolution of PISA2000-2021 Mat	hematics FrameworkCAO Yi-ming, ZHU Zhong-ming (1)	
A Review of PISA2021 Mathematics Framework	DONG Lian-chun, WU Li-bao, WANG Li-dong (6)	
21st Century Skills in PISA2021 Mathematical Literacy Assessments	ment Framework SUN bin-bo, GUO Kan, SHAO Zhen-hong (12)	
Evolution and Inspiration: Study on the Contents and Contexts	in the PISA Mathematics Framework	
Elementary School Mathematics Teachers' Belief on Problem F	Posing ······SONG Nai-qing, ZHOU Wan-ting, CHEN Ting, et al (24)	
Using Problem Posing to Diagnose and Assess Teachers' Conce	eptual Understanding ········ YAO Yi-ling, XU Ran-ran, CAI Jin-fa (30)	
Exploring Mathematical Communication in Problem Posing	······ ZHANG Ling, SONG Nai-qing, CAI Jin-fa (37)	
Teaching through Mathematical Problem Posing: Theoretical B	Bases and Practical Strategies CAI Jin-fa, YAO Yi-ling (42)	
A Summary of the Research on Primary and Secondary School	l Mathematics Textbooks in the Past Twenty Years-Based on CiteSpace	
Knowledge Map Analysis	LV Shi-hu, PENG Yan-wei (48)	
Research on Consistency between Curriculum Standard and	Mathematics Test Paper under the Background of New College Entrance	
Examination Reform——Taking 2017—2018 National Volume II a	and Zhejiang Volume as an Example	
	ZHANG Ding-qiang, PEI Yang (55)	
Mathematical Evaluation Analysis and Teaching Suggestions	s Based on the Core ConceptsTaking the 2018 Junior High School	
Entrance Examination Mathematics Test (A Volume) in Chongqing	as an Example ZHANG Bin, GOU Bin-e (61)	
Based on Thinking Quality Cultivation, Exploring the Teaching	strategy of "Deep Learning" in Primary Mathematics	
	CHENG Ming-xi (66)	
Analysis on Test Questions of National High School Mathem	atics Teachers' Qualification Examination——Taking "Subject Knowledge	
nd Teaching Ability" as Examples	LIU Yun, HUANG Yong-ming, JI Shuang-yan (71)	
Suggestions and Investigations on the Content of the "Statistics	and Probability" Course in the Junior High School	
	LING Xiao-mu, ZHANG Fei (77)	
Cultivation of Creative Thinking in Higher Mathematics Teaching	ing: Problems and Countermeasures	
	·······WANG Li-dong, ZHANG Chun-fu, CHEN Dong-hai, et al (81)	
A Reflection on the Problem of National Mathematics Education	on under the Concept of Cultural Symbiosis-At the Same Time Talking	
bout the Idea of Integrating National Mathematical Culture into the	e Math Education ·········· YAO Hong-yao, YANG Wei-ping (85)	
Using P Value in Educational Research: Problems and Countern	measures——Concurrently Discussing about the Use of Effect Quantity \cdots	
Research on Mathematics Education in China from the Per	rspective of Core Literacy-Summary of the National Conference or	
Mathematics Education Research and the Working Meeting of the	Board of Directors and Editorial Committee of the Journal of Mathematics	
Education in 2019	ZHANG Xiao-xue, DAI Qin (99)	