J O U R N A L O F

Ceramic Processing Research

Volume 24, Number 5, October 2023

CONTENTS

Research Articles

pound salt drilling fluid	Jian Wang, Hanxuan Song, Jian Guan and Hongyu Liu	/33
Numerical and experimental validation for effective cross-sections in pulse detonation engine design	S. Srikrishnan, T. Shaafi and P.K. Dash	762
Temperature dependence of elastic and shear modulus, poisson ratio and ultrasonic wave velocity of electroless nickel-coated composites	Ahmet Yönetken, Vildan Özkan Bilici and Ayhan Erol	772
Comparative study between CeO_2 reinforced Zirconia Toughened Alumina (ZTA) and ZTA in terms of functional and mechanical properties	P. Ganeshan, Yaramala Sravani, K. Raja and Bipin Kumar Singh	781
Effect of annealing temperature on the properties of Cu_2O thin films by RF magnetron sputter using $\text{Cu}/\text{Cu}_2\text{O}$ as composite targets	Boen Houng, Cho Liang Chung, Peng Chieh Yeh, Jhih Kai Wu and Wei Lin Yeh	788
Investigation of microstructure and wear properties of AISI M2 high speed steel nozzles coated with different hard coatings (TiN, CrN, AlCrN, AlTiN and AlTiN) by PVD method	Hediye Aydin and M. Ahmet Söyler	796
Machining approaches with smart algorithms for ultrasonic precision machining	Zhongyu Liang, Yabo Liu and Nan Hu	802
Effect of Rutile/Anatase TiO ₂ on surface properties of ZnO-Al ₂ O ₃ -CaO-SiO ₂ glass system	Dongchan Kim, Seunggu Kang and Kangduk Kim	807
Improvement of oxidation resistance property of C/SiCO nanoporous ceramic composites with TaSi ₂ -MoSi ₂ -ZrB ₂ -borosilicate glass coating	Xiafei Li, Junzong Feng, Guozhu Zhao and Xingyu Wu	816
Characteristics of an organic-inorganic hybrid filter consisting of $LaMn_{0.5}Fe_{0.5}O_3$ nanofibers dispersed in PAN	Hee-Seon Kim, Han-Jung Kim, Yoonkap Kim and Jong-Won Yoon	827
Effect of sintering temperature on properties of light- weight porous ceramics prepared by foam impregnation method	Zhili Cui, Shiming Xiao, Xianli Luo, Yunxuan Liu, Ming Liu, Yuyun Zeng, Xiaoli Zhong, Hong Zheng, and Haifeng Guo	835

Review on interfacial properties of SiC_{f}/SiC composites for gas turbine engines	Young-Seok Jeong, Kyoon Choi and Ho Gyu Yoon	841
Unleashing the resilience of Reinforced Concrete Member retrofitted with composite laminates	K.S. Navaneethan, S. Anandakumar, S. Manoj and P.C. Murugan	850
Exploring the relationship between TIG welding current and AA5754-H111 joint characteristics	G. Tamil Kumaran and K.S. Jayakumar	860
Design and development of ceramic glaze flow tester with adjustable tilt angle	Ya-nan Xiu	868
Efficient and eco-friendly plasma preparation and reaction mechanism of low surface-energetic core-shell CaTiO_3	Xiaolei Zheng, Qun Wang, Xiaoqiang Li, Changkuan Zheng and Chenjie Shen	874
Study on polyester resin concrete for applications in chemical & power plant industry	S. Lavanya Prabha, M. Surendar, G. Prabha and A. Mohan	884
Structural, magnetic properties of nickel-substituted strontium W-type ferrites	Jinsong Li, Xiubin Zhao and Ailin Xia	894
Optimization of wear properties on LM24 aluminium alloy reinforced with nano alumina and graphite using response surface methodology	R. Surendran and A. Kumaravel	899
Experimental investigation of vibrational isolation of automobile seat with various rubber materials	V. Pugazhenthi, S. Baskar and R. Rajappan	907