Record INF.	UNINA9910814386903321
Titolo	Developments in strategic materials and computational design V : a collection of papers presented at the 38th International Conference on Advanced Ceramics and Composites : January 27-31, 2014, Daytona Beach, Florida / / edited by Waltraud M. Kriven [and six others]
Pubbl/distr/stampa	Hoboken, New Jersey : , : Wiley, , 2015 ©2015
ISBN	1-119-04030-2 1-119-04029-9 1-119-04031-0
Descrizione fisica	1 online resource (385 p.)
Collana	Ceramic Engineering and Science Proceedings, , 0196-6219 ; ; Volume 35, Issue 8
Disciplina	620.14
Soggetti	Ceramic materials Temperature control
Lingua di pubblicaziona	
	Inglese
Formato	Materiale a stampa
Formato Livello bibliografico	Materiale a stampa Monografia
Formato Livello bibliografico Note generali	Materiale a stampa Monografia Description based upon print version of record.
Formato Livello bibliografico Note generali Nota di bibliografia	Materiale a stampa Monografia Description based upon print version of record. Includes bibliographical references and index.

1.

	according to stability diagram; 3. Influence of alkaline solution Si/K molar ratio onto geopolymer materials; a. Structure of synthesized materials; b. Mechanical properties; IV. CONCLUSION; ACKNOWLEDGEMENTS; REFERENCES; SODIUM GEOPOLYMER REINFORCED WITH JUTE WEAVE; ABSTRACT; INTRODUCTION EXPERIMENTAL PROCEDUREMethod for Producing Geopolymer Matrix; Method for Producing Jute Composite; Alkali Treatment; MECHANICAL TESTING; Tensile Testing; Experimental Set-up; Results and Discussion; Comparison of Jute-reinforced Geopolymer with Jute-reinforced Mortar; Four-point Flexure Testing; Experimental Set-up; Results and Discussion; Impact Testing; Experimental Set-up; Results and Discussion; Peak Load; Deflection; Total Energy Absorbed; Comparison of Jute-reinforced Geopolymer with Jute-reinforced Concrete; X-ray Diffraction (XRD); THERMOGRAVIMETRIC ANALYSIS (TGA) Results and DiscussionsScanning Electron Microscopy (SEM); Energy Dispersive X-ray Spectroscopy (EDS); Results and Discussions; CONCLUSIONS; ACKNOWLEDGEMENTS; REFERENCES; POTASSIUM GEOPOLYMER REINFORCED WITH ALKALI-TREATED FIQUE; ABSTRACT; INTRODUCTION; EXPERIMENTAL PROCEDURE; Method for Producing Geopolymer Matrix; Alkali Treatment; Method for Producing Fique Composite; Experimental Procedure; Results and Discussions; Tensile Testing; Flexure Testing; Impact Testing; X-ray Diffraction (XRD); Thermogravimetric Analysis (TGA); Scanning Electron Microscopy (SEM) Energy Dispersive X-ray Spectroscopy (EDS)CONCLUSIONS; ACKNOWLEDGEMENTS; REFERENCES; DESIGN OF WOOL-GEOPOLYMER POTS; ABSTRACT; INTRODUCTION; EXPERIMENTAL; Materials; Methods; RESULTS AND DISCUSSION; CONCLUSIONS; ACKNOWLEDGEMENTS; REFERENCES; RICE HUSK ASH AS A SILICA SOURCE IN A GEOPOLYMER FORMULATION; ABSTRACT; INTRODUCTION; EXPERIMENTAL; Materials; Methods; RESULTS AND DISCUSSION; CONCLUSIONS; ACKNOWLEDGEMENTS; REFERENCES; RICE HUSK ASH AS A SILICA SOURCE IN A GEOPOLYMER FORMULATION; ABSTRACT; INTRODUCTION; EXPERIMENTAL; 3. RESULTS; 4 DISCUSSION 5 CONCLUSION
Sommario/riassunto	This issue contains 31 papers from The American Ceramic Society's 38th International Conference on Advanced Ceramics and Composites, held in Daytona Beach, Florida, January 26-31, 2014. This issue includes papers presented in the following Symposia and Focused Sessions: Symposium 2 - Advanced Ceramic Coatings for Structural, Environmental, and Functional Applications; Symposium 10 - Virtual Materials (Computational) Design and Ceramic Genome; Symposium 11 - Advanced Materials and Innovative Processing Ideas for the Industrial Root Technology; Symposium 12 - Materials for Extreme Environments