

## PERSPECTIVE ARTICLE

# Why geopolymers and alkali-activated materials are key components of a sustainable world: A perspective contribution

Waltraud M. Kriven<sup>1</sup> | Cristina Leonelli<sup>2</sup> | John L. Provis<sup>3</sup> | Aldo R. Boccaccini<sup>4</sup> | Cyril Attwell<sup>5</sup> | Vilma S. Ducman<sup>6</sup> | Claudio Ferone<sup>7</sup> | Sylvie Rossignol<sup>8</sup> | Tero Luukkonen<sup>9</sup> | Jannie S. J. van Deventer<sup>10</sup> | José V. Emiliano<sup>11</sup> | Jérôme E. Lombardi<sup>12</sup>

<sup>1</sup>Department of Materials Science and Engineering, University of Illinois at Urbana-Champaign, Urbana, USA

<sup>2</sup>Department of Engineering "Enzo Ferrari", University of Modena and Reggio Emilia, Modena, Italy

<sup>3</sup>Paul Scherrer Institut, 5252 Villigen PSI, Villigen, Switzerland

<sup>4</sup>Institute of Biomaterials, University of Erlangen-Nuremberg, Erlangen, Germany

<sup>5</sup>ARC Innovations, Benoni, South Africa

<sup>6</sup>Laboratory for Cements, Mortars and Ceramics, The Department of Materials, Slovenian National Building and Civil Engineering Institute (ZAG), Ljubljana, Slovenia

<sup>7</sup>Department of Engineering, Centro Direzionale, University of Naples "Parthenope", Naples, Italy

<sup>8</sup>IKCER UMR7351, Limoges University, Limoges, France

<sup>9</sup>Fibre and Particle Engineering Research Unit, Oulu University, Oulu, Finland

<sup>10</sup>Zeebond Group, Somerton, Australia

<sup>11</sup>Centre for Advanced 2D Materials, National University of Singapore, Singapore, Singapore

## Correspondence

Cristina Leonelli, Department of Engineering "Enzo Ferrari", University of Modena and Reggio Emilia, Via Claudia 3711, Modena 41125, Italy.  
Email: [cristina.leonelli@unimore.it](mailto:cristina.leonelli@unimore.it)

## Abstract

This perspective article delves into the transformative potential of alkali-activated materials, acid-activated materials, and geopolymers in mitigating climate change and market challenges. To harness the benefits of these materials, a comprehensive strategy is proposed. This strategy aims to integrate these materials into existing construction regulations, facilitate certification, and promote market access. Emphasizing research and innovation, the article advocates for increased funding to refine the chemistry and production of these materials, prioritizing low-cost alternatives and local waste materials. Collaboration between academia and industry is encouraged to expedite technological advances and broaden applications. This article also underscores the need to develop economic and business models emphasizing the long-term benefits of these materials, including lower life-cycle costs and reduced environmental impact.

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# Materials In World Perspective Assessmen

**Claudio R. Boer, Nuno M.R.S.  
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## **Materials In World Perspective Assessment:**

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**Biological Assessment Guidance for Dredged Material** Environmental Commission. Working Group 8, 2006

**Teacher Education for Global Englishes Language Teaching** Denchai Prabjandee, 2024-12-12 This book presents a model of transformative empowering and critically oriented language teacher education to prepare English teachers to implement Global Englishes Language Teaching (GELT). GELT's importance to learners' needs for communication in the globalized world means that it receives tremendous interest from language teacher educators worldwide, underlining the risks posed by gaps in teachers' knowledge of how to implement it. This book fills in those gaps with accessible theoretical foundations and practical examples drawn from the successful work of the MEd in Teaching English as a Global Language (TEGL) at Burapha University, Thailand. Through critically oriented frameworks, the TEGL program equips in-service English teachers with a critical lens to examine their current practices, challenge the sociocultural and educational backgrounds that teachers bring into teacher education, and empower them in transforming their classroom practices to correspond with the GELT paradigm. The book highlights how the global spread of English impacts language teacher education, discusses the theoretical foundations underlying the design of teacher education for GELT, addresses the knowledge base for preparing teachers to use GELT, and examines the applications of teacher education for GELT. It is vital reading for graduate students, teacher educators, and researchers in language teacher education and beyond.

**Critical Energy Minerals: A Material Enabler for Carbon Neutrality** Xiangyun Gao, Xiaoqi Sun, Zhi Cao, Weiqiong Zhong, 2024-04-09 In line with the Paris Agreement, the global community has committed to holding the rise in global temperatures below 1.5°C pre-industrial levels.

At COP26 held recently in Glasgow participating parties are expected to strengthen their commitment to ambitious 2030 emissions reduction targets to achieve net zero emissions by the middle of the 21st century Achieving these ambitious climate goals requires all countries to phase out coal consumption speed up electrification of transport technologies and mobilize significant investment in renewable energy technologies

*International Books in Print* ,1991      *Concepts and Trends in Global Education* ERIC Clearinghouse for Social Studies/Social Science Education, Bloomington, IN.,2001 This publication addresses trends and issues in global education providing information about what global education is and how to teach it The publication emphasizes ERIC resources It offers ERIC Digests about global education and selected items from the ERIC database that exemplify different viewpoints and approaches to global education It contains a directory of key organizations and World Wide Web sites that provide teacher resources Designed as a guide for educators who want to include global education across the various subjects of the curriculum the volume is divided into four parts 1 Overview of Global and International Education 2 Institutionalizing Global Education 3 Curriculum Methods and Approaches and 4 Appendices Information about documents in the ERIC database and how to submit documents for the database is appended

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