

Geopolymer Chemistry And Applications Book By Geopolymer Insute

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~~It is a textbook, a reference book instead of being a collection of scientific papers. The book holds: 680 pages, 28 chapters, 119 tables, 343 figures and pictures, 75 patents, 740 references, 905 authors cited in references. Written by the inventor and founder of geopolymer science, Geopolymer Chemistry and Applications covers:~~

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~~the inventor in 1979 of geopolymers and the chemistry of geopolymerization. He has authored/co-authored hundreds scienti;c papers, reports, and dozen of books, holds more than 50 patents and has written in 2008 the reference book Geopolymer Chemistry and Ap-plications,5th edition issued in 2020. Since 2009, he is the Chairman~~

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~~Introduction: developments and applications in geopolymer ...~~

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~~And figuring out how the pyramids were built has important applications in reducing the carbon footprint of concrete masonry, one of the most widely used construction materials on the planet. This long-form piece, originally published on Medium, traces the roots of geopolymer technology from the ancient Egyptians to Watershed Materials' modern ...~~

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~~What can be done about the major concerns of our Global Economy on energy, global warming, sustainable development, user-friendly processes, and green chemistry? Here is an important contribution to the mastering of these phenomena today. Written by Joseph Davidovits, the inventor and founder of geopolymer science, it is an introduction to the subject for the newcomers, students, engineers and professionals. You will find science, chemistry, formulas and very practical information (including patents' excerpts) covering: - The mineral polymer concept: silicones and geopolymers, - Macromolecular structure of natural silicates and aluminosilicates, - Scientific Tools, X-rays, FTIR, NMR, - The synthesis of mineral geopolymers, Poly(siloxonate) and polysilicate, soluble silicate, Chemistry of (Na, K)oligo-sialates: hydrous alumino-silicate gels and zeolites, Kaolinite / Hydrosodalite-based geopolymer, Metakaolin MK-750-based geopolymer, Calcium-based geopolymer, Rock-based geopolymer, Silica-based geopolymer, Fly ash-based geopolymer, Phosphate-based geopolymer, Organic-mineral geopolymer, - Properties: physical, chemical and long-term durability, - Applications: Quality controls, Development of user-friendly systems, Castable geopolymer, industrial and decorative applications, Geopolymer / fiber composites, Foamed geopolymer, Geopolymers in ceramic processing, Manufacture of geopolymer cement, Geopolymer concrete, Geopolymers in toxic and radioactive waste management. It is a textbook, a reference book instead of being a collection of scientific papers. Each chapter is followed by a bibliography of the relevant published literature including 75 patents, 120 tables, 360 figures, 550references, 700 authors cited, representing the most up to date contributions of the scientific community. The industrial applications of geopolymers with engineering procedures and design of processes are also covered in this book.~~

~~What can be done about the major concerns of our Global Economy on energy, global warming, sustainable development, user-friendly processes, and green chemistry? Here is an important contribution to the mastering of these phenomena today. Written by Joseph Davidovits, the inventor and founder of geopolymer science, it is an introduction to the subject for the newcomers, students, engineers and professionals. You will find science, chemistry, formulas and very practical information (including patents' excerpts) covering: - The mineral polymer concept: silicones and geopolymers, - Macromolecular structure of natural silicates and aluminosilicates, - Scientific Tools, X-rays, FTIR, NMR, - The synthesis of mineral geopolymers, Poly(siloxonate) and polysilicate, soluble silicate, Chemistry of (Na, K)-oligo-sialates: hydrous alumino-silicate gels and zeolites, Kaolinite / Hydrosodalite-based geopolymer, Metakaolin MK-750-based geopolymer, Calcium-based geopolymer, Rock-based geopolymer, Silica-based geopolymer, Fly ash-based geopolymer, Phosphate-based geopolymer, Organic-mineral geopolymer, - Properties: physical, chemical and long-term durability, - Applications: Quality controls, Development of user-friendly systems, Castable geopolymer, industrial and decorative applications, Geopolymer / fiber composites, Foamed geopolymer, Geopolymers in ceramic processing, Manufacture of geopolymer cement, Geopolymer concrete, Geopolymers in toxic and radioactive waste management. It is a textbook, a reference book instead of being a collection of scientific papers. Each chapter is followed by a bibliography of the relevant published literature including 80 patents, 125 tables, 363 figures, 560 references, 720 authors cited, representing the most up to date contributions of the scientific community. The industrial applications of geopolymers with engineering procedures and design of processes are also covered in this book~~

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Written by Joseph Davidovits, the inventor and founder of geopolymer science, Geopolymer Chemistry and Applications is an introduction to the subject for the newcomers, students, engineers and professionals. You will find science, chemistry, formulas and very practical information.

A geopolymer is a solid aluminosilicate material usually formed by alkali hydroxide or alkali silicate activation of a solid precursor such as coal fly ash, calcined clay and/or metallurgical slag. Today the primary application of geopolymer technology is in the development of reduced-CO2 construction materials as an alternative to Portland-based cements. Geopolymers: structure, processing, properties and industrial applications reviews the latest research on and applications of these highly important materials. Part one discusses the synthesis and characterisation of geopolymers with chapters on topics such as fly ash chemistry and inorganic polymer cements, geopolymer precursor design, nanostructure/microstructure of metakaolin and fly ash geopolymers, and geopolymer synthesis kinetics. Part two reviews the manufacture and properties of geopolymers including accelerated ageing of geopolymers, chemical durability, engineering properties of geopolymer concrete, producing fire and heat-resistant geopolymers, utilisation of mining wastes and thermal properties of geopolymers. Part three covers applications of geopolymers with coverage of topics such as commercialisation of geopolymers for construction, as well as applications in waste management. With its distinguished editors and international team of contributors, Geopolymers: structure, processing, properties and industrial applications is a standard reference for scientists and engineers in industry and the academic sector, including practitioners in the cement and concrete industry as well as those involved in waste reduction and disposal. Discusses the synthesis and characterisation of geopolymers with chapters covering fly ash chemistry and inorganic polymer cements Assesses the application and commercialisation of geopolymers with particular focus on applications in waste management Reviews the latest research on and applications of these highly important materials

This book provides an updated state-of-the-art review on new developments in alkali-activation. The main binder of concrete, Portland cement, represents almost 80% of the total CO2 emissions of concrete which are about 6 to 7% of the Planet's total CO2 emissions. This is particularly serious in the current context of climate change and it could get even worse because the demand for Portland cement is expected to increase by almost 200% by 2050 from 2010 levels, reaching 6000 million tons/year. Alkali-activated binders represent an alternative to Portland cement having higher durability and a lower CO2 footprint. Reviews the chemistry, mix design, manufacture and properties of alkali-activated cement-based concrete binders Considers performance in adverse environmental conditions. Offers equal emphasis on the science behind the technology and its use in civil engineering.

The book covers the topic of geopolymers, in particular it highlights the relationship between structural differences as a result of variations during the geopolymer synthesis and its physical and chemical properties. In particular, the book describes the optimization of the thermal properties of geopolymers by adding micro-structural modifiers such as fibres and/or fillers into the geopolymer matrix. The range of fibres and fillers used in geopolymers, their impact on the microstructure and thermal properties is described in great detail. The book content will appeal to researchers, scientists, or engineers who are interested in geopolymer science and technology and its industrial applications.

In this book, Professor Joseph Davidovits explains the intriguing theory that made him famous. He shows how the Pyramids were built by using re-agglomerated stone (a natural limestone treated like a concrete), and not with huge carved blocks, hauled on fragile ramps. Archaeology bears him out, as well as hieroglyphic texts, scientific analysis, religious and historical facts. Several independant scientific studies reveal the ultimate proofs that the pyramids blocks are not natural. You may find various papers or opinions challenging the theory, but all prefer ignoring these analysis. Believing or not in the artificial stone theory is now simply irrelevant. It is a fact, a truth that is still fought by some people for irrational purposes. Here we finally have the first complete presentation on how and why the Egyptian pyramids were built. We discover its brilliant creator, the great scribe and architect, Imhotep. Joseph Davidovits sweeps aside the conventional image which cripples Egyptology and delivers a captivating and surprising view of Egyptian civilisation. He charts the rise of this technology, its apogee with the Pyramids at Giza, and the decline. Everything is logical and brilliant, everything fits into place. Chapter by chapter, the revelations are sensational, especially when Joseph Davidovits explains why the pharaohs stopped building great pyramids because of an over-exploitation of raw materials and a likely environmental disaster. We understand why Cheops and Ramses II represent two Egyptian civilisations completely different in their beliefs. On the one hand, the God Khnum mandates Cheops to build his pyramid in agglomerated stone, while on the other hand, the God Amun orders Ramses to carve stone for the temples of Luxor and Karnak. 30 years after the best seller book: The Pyramids: an enigma solved, after 30 years of new research, and new discoveries, you will understand why the theory is more alive than ever, why more and more scientists and archaeologists agree, simply because it is the truth.

The field of polymer nanocomposites has become essential for engineering and military industries over the last few decades as it applies to computing, sensors, biomedical microelectronics, hard coating, and many other domains. Due to their outstanding mechanical and thermal features, polymer nanocomposite materials have recently been developed and now have a wide range of applications. Polymer Nanocomposites for Advanced Engineering and Military Applications provides emerging research on recent advances in the fabrication methods, properties, and applications of various nano-fillers including surface-modification methods and chemical functionalization. Featuring coverage on a broad range of topics such as barrier properties, biomedical microelectronics, and matrix processing, this book is ideally designed for engineers, industrialists, chemists, government officials, military professionals, practitioners, academicians, researchers, and students.

The growing presence of biomass and waste has caused significant changes to the environment. With the ubiquity of these materials, there is an increasing need for proper disposal and reuse of these resources. Applied Environmental Materials Science for Sustainability is a key resource on the latest advancements in environmental materials, including the utilization of biomass and waste for advanced materials. Highlighting innovative studies on renewable resources, green technology, and chemical modification, this book is an ideal reference source for academics, researchers, professionals, and graduate students in the field of environmental and materials sciences and technologies.

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