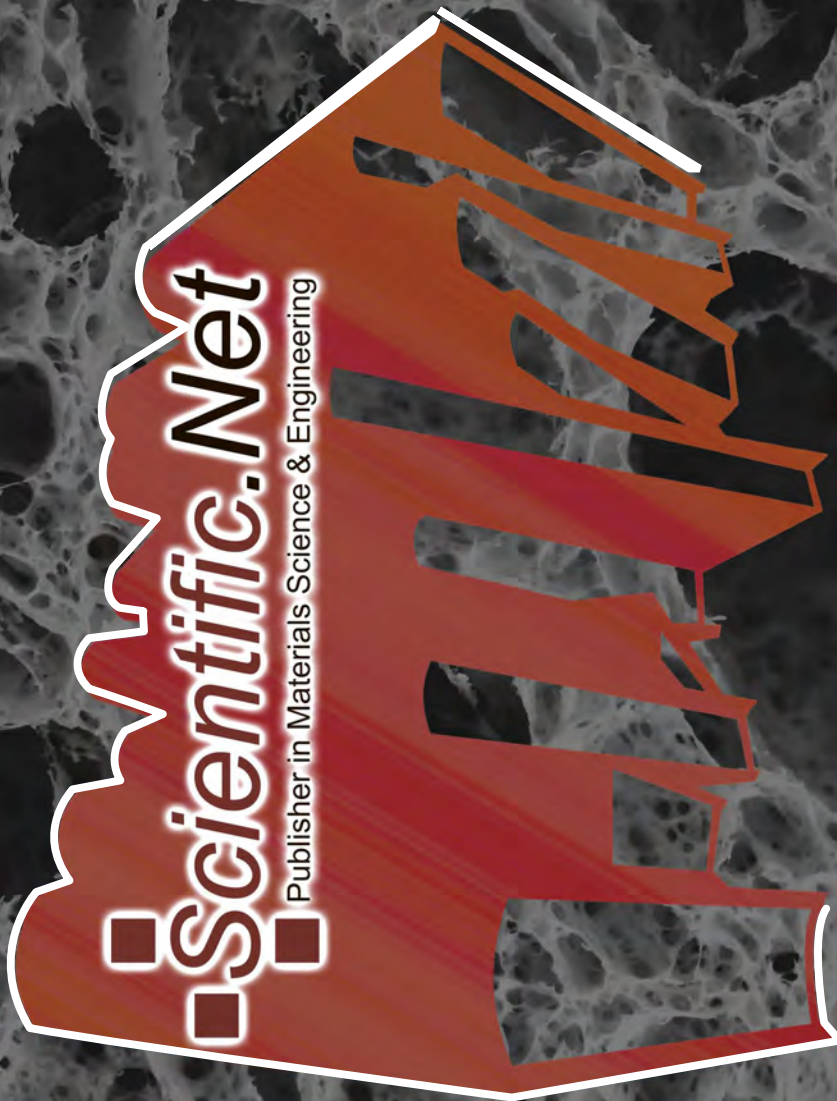


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# Bioceramics Catalogue

**2023**



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**Anne-Kristin Wohlbiel,  
CEO**





### Bioceramics

#### Aggregated Book

Edited by: Dr. Michele Iafisco, Prof. Francesco Baino and Dr. Stanislav Kolisnychenko

This specialised book entitled "Bioceramics" consists of papers published by Trans Tech Publications Inc. over the period of 2018 - 2019 years and introduces the reader to a wide range of research results and engineering solutions in the area of the development and use of modern bioceramic materials.

#### Aggregated Book

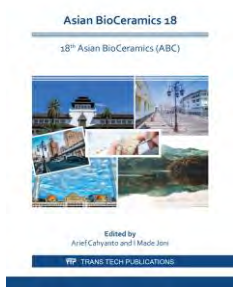
**Topics:** Bioscience and Medicine, Materials Science

**Keywords:** Antibacterial, Bioactive, Bioactive Material, Bioceramic Coating, Bioceramic Composite, Bioceramics, Bioglass, Bioinert Material, Bone Cement Composite, Bone Graft, Calcium Phosphate, Glass-Ceramic, Hydroxyapatite, Implant Material, Scaffold, Silicon Nitride, Tricalcium Phosphate, Zirconia

Prices: Print: **US\$ 352.00/ EUR 352.00** Print: 978-3-0357-1585-9  
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### Asian BioCeramics 18



#### Selected, peer reviewed papers from the 18th Asian BioCeramic (ABC) Symposium, 19-20 September 2018, Bandung, Indonesia

Edited by: Dr. Arief Cahyanto and I Made Joni

This book contains papers collected from the 18th Asian BioCeramic (ABC) Symposium, held in Bandung, Indonesia on 19-20 September 2018 and reflected the most recent research made in the study of bioceramics and their applications. The papers are focused on synthesis, processing, and analysis of bioceramics properties, use of bioceramics for coating and surface modification of implants, application of bioceramics in the treatment of soft and hard tissue, infectious complications treatment, and tissue engineering in maxillofacial and orthopedic applications. The strong contribution related to the application of bioceramics and composite materials in dentistry and orthopedics, which is presented in this book, confirms the importance of these materials for clinical practice.

#### Conference Proceedings

**Topics:** Bioscience and Medicine, Manufacturing, Materials Science, Nanoscience

**Keywords:** Apatite Nuclei, Bioactive Apatite, Bioceramics, Biomaterials, Bone Filler, Calcium Phosphate, Cement Mixtures, Coating, Composites, Dentistry, Hydroxyapatite, Implant, Mechanical Properties, Orthopedics, Porous Metakaolin, Scaffolds, Surface Treatment, Tissue, Zirconia Ceramics

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 eBook Multi-User: **US\$ 347.00/ EUR 347.00** 292 pages, 2019

<https://www.scientific.net/978-3-0357-1439-5/book>



### Bioceramics 30

#### Selected, peer reviewed papers presented at the 30th Symposium and Annual Meeting of the International Society for Ceramics in Medicine (Bioceramics 30), October 26-29, 2018, Nagoya, Japan

Edited by: Chikara Ohtsuki, Hitoshi Hirata, Ayae Sugawara-Narutaki, Masakazu KAWASHITA and Masanobu Kamitakahara

This volume contains papers corresponding to communications presented at 30th Symposium and Annual Meeting of the International Society for Ceramics in Medicine (ISCM, October 26–29, 2018, Nagoya, Japan) and it continues the tradition of the Bioceramics series offering, generally to young researchers, the ability to publish the work they are eager to present to the community of specialists participating in the meeting. The originality of the Bioceramics series is that the papers are available before the meeting to allow deeper, more detailed discussions than those occurring in classical meetings where exchanges are often hampered by the limited time devoted to presentations. These papers might not be perfect, but we believe that the basis for the discussions they provide is irreplaceable.

#### Conference Proceedings

**Topics:** Bioscience and Medicine, Materials Science

**Keywords:** Apatite, Bioceramics, Bioceramics Application, Bio-Glasses, Bioinert, Biomimetism, Bioresorbable, Calcium Phosphate, Cements, Coatings, Composite Materials, Dental Materials, Drug Delivery, In Vitro Tests, Nanoparticles, Scaffolds

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 eBook Multi-User: **US\$ 347.00/ EUR 347.00** 322 pages, 2018

<https://www.scientific.net/978-3-0357-1374-9/book>

**Bioceramics 29****Selected peer reviewed papers from the 29th Symposium and Annual Meeting of the International Society for Ceramics in Medicine (ISCM), October 25-27, 2017, Toulouse, France**

Edited by: Christian Rey, Christèle Combes and Dr. Christophe Drouet

This book collects 47 papers corresponding to communications presented at 29th Symposium and Annual Meeting of the International Society for Ceramics in Medicine (ISCM, October 25-27, 2017, Toulouse, France), one focus article related to the plenary lecture given by Corrado Piconi on bioinert ceramics, and 46 contributions, related to oral and poster communications on the different topics of the meeting, organized in six different chapters. This book continues the tradition of the Bioceramics series offering, generally to young researchers, the ability to publish the work they are eager to present to the community of specialists participating to the meeting. The originality of the Bioceramics series is that the papers are available before the meeting to allow deeper, more detailed discussions than those occurring in classical meetings where exchanges are often hampered by the limited time devoted to presentations. These papers might not be perfect but we believe that the basis for discussions they provide is irreplaceable.

**Conference Proceedings**

**Topics:** Bioscience and Medicine, Materials Science

**Keywords:** Animal Study, Apatite, Bioceramics, Bio-Glasses, Bioinert, Biomimetism, Bioresorbable, Calcium Phosphate, Cements, Coatings, Composite Materials, Drug Release, In Vitro Tests, Nanoparticles, Scaffolds

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 eBook Multi-User: **US\$ 347.00/ EUR 347.00** 298 pages, 2017

<https://www.scientific.net/978-3-0357-1220-9/book>

**Bioceramics 28****Selected, peer reviewed papers from the 28th Annual Meeting of the International Society for Ceramics in Medicine (Bioceramics 28), October 18-21, 2016, Charlotte North Carolina, USA**

Edited by: Ahmed El-Ghannam

"Bioceramics 28" (proceedings of the 28th Annual Meeting of the International Society for Ceramics in Medicine, held October 18 to 21, 2016, Charlotte, North Carolina, USA) describes the most recent research efforts in the development of new methods for synthesis and characterization of bioceramics for various applications in the medical field. The multidisciplinary nature of the field of bioceramics has brought together contributions from authors with wide diversity of backgrounds including, clinicians, engineers and scientists. The chapters of the book demonstrate the extensive research efforts directed to exploit the application of bioceramic as a delivery system for anticancer drugs, antibiotics, growth factors, peptides and therapeutic ions. Moreover, the methods of manufacturing and processing of bioceramics as bulk, coating on substrate, gel, porous granules or cement are described.

**Conference Proceedings**

**Topics:** Bioscience and Medicine

**Keywords:** Bioactive Glass, Bioceramic, Bone Graft, Calcium Phosphate, Cells, Drug Delivery, *In Vivo*, Material Analysis, Tissue Ceramic Interaction

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 eBook Multi-User: **US\$ 347.00/ EUR 347.00** 322 pages, 2016

<https://www.scientific.net/978-3-03835-756-8/book>

**Bioceramics 27****Selected, peer reviewed papers from BIOCERAMICS 27, 27th Symposium and Annual Meeting of the International Society for Ceramics in Medicine, October 27-29, 2015, Bali, Indonesia**

Edited by: Ika Dewi Ana, Kuwat Triyana

The presented collection include selected papers submitted to the Bioceramics 27 which describe of modern processing methods of bioceramics; bioceramic coatings; processes of biomineralization; utilization of bioceramics for drug delivery systems, tissue engineering and regenerative medicine. In this issue also are presented results of researches the interaction of cell and tissue with bioceramic elements and clinical applications of bioceramics in dentistry and orthopedics.

**Conference Proceedings**

**Topics:** Bioscience and Medicine, Materials Science

**Keywords:** Apatite, Bioceramics, Calcium Phosphate, Dentistry, Drug Delivery Systems, Implantation, Tissue Engineering

Prices: Print: **US\$ 296.00/ EUR 296.00** Print: 978-3-0357-1040-3  
 eBook Single-User: **US\$ 198.00/ EUR 198.00** eBook: 978-3-0357-3040-1  
 eBook Multi-User: **US\$ 347.00/ EUR 347.00** 296 pages, 2016

<https://www.scientific.net/978-3-0357-1040-3/book>



**Bioceramics 26**

**Selected, peer reviewed papers from the 26th Symposium and Annual Meeting of the International Society for Ceramics in Medicine (ISCM), November 6-8, 2014, Barcelona, Spain**

Edited by: M.P. Ginebra, Cristina Canal, Montserrat Espanol, Edgar Benjamin Montufar and Roman A. Perez

Collection of selected, peer reviewed papers from the 26th Symposium and Annual Meeting of the International Society for Ceramics in Medicine (BIOCERAMICS 26), November 6-8, 2014, Barcelona, Spain.

The 76 papers are grouped as follows:

- I. Biostable Ceramics and Tough Ceramics;
- II. Glasses and Glass-ceramics;
- III. Calcium Phosphates;
- IV. Cements;
- V. Composites and Hybrid Materials;
- VI. Nanoparticles and Nanostructured Ceramics; VII. Coatings, Surface Engineering and Interfaces;
- VIII. Additive Manufacturing of Ceramics and Composites;
- IX. Scaffolds;
- X. Ceramics for Drug Delivery;
- XI. Cell-Material Interactions;
- XII. Preclinical Models: Animal Studies;
- XIII. Clinical Applications

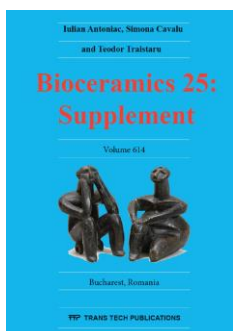
**Conference Proceedings**

**Topics:** Bioscience and Medicine

**Keywords:** Additive Manufacturing of Ceramics, Bioceramics, Biostable Ceramics, Calcium Phosphates, Cell-Material Interactions, Cements, Ceramics for Drug Delivery, Clinical Applications, Coatings, Composites, Glass-Ceramics, Glasses, Hybrid Materials, Interfaces, Nanoparticles, Nanostructured Ceramics, Preclinical Models: Animal Studies, Scaffolds, Surface Engineering, Tough Ceramics

Prices:	Print:	<b>US\$ 325.00/ EUR 325.00</b>	Print: 978-3-03835-282-2
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	eBook Multi-User:	<b>US\$ 347.00/ EUR 347.00</b>	472 pages, 2014

<https://www.scientific.net/978-3-03835-282-2/book>



**Bioceramics 25: Supplement**

**Selected, peer reviewed papers from the 25th Symposium and Annual Meeting of the International Society for Ceramics in Medicine (ISCM), November 7-10, 2013, Bucharest, Romania**

Edited by: Iulian Antoniac, Simona Cavalu and Teodor Traistaru

Collection of selected, peer reviewed papers from the 25th Symposium and Annual Meeting of the International Society for Ceramics in Medicine (ISCM), November 7-10, 2013, Bucharest, Romania.

The 37 papers are grouped as follows:

- I. Bioceramics Synthesis, Characterization and Testing,
- II. Bioceramics Applications in Dentistry,
- III. Bioceramics Applications in Orthopedics

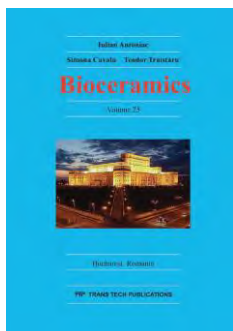
**Conference Proceedings**

**Topics:** Bioscience and Medicine, Materials Science

**Keywords:** Characterization of Bioceramics, Processing, Synthesis

Prices:	Print:	<b>US\$ 165.00/ EUR 165.00</b>	Print: 978-3-03835-128-3
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	eBook Multi-User:	<b>US\$ 289.00/ EUR 289.00</b>	244 pages, 2014

<https://www.scientific.net/978-3-03835-128-3/book>

**Bioceramics 25**

**Selected, peer reviewed papers from the 25th Symposium and Annual Meeting of the International Society for Ceramics in Medicine (BIOCERAMICS 25), November 7-10, 2013, Bucharest, Romania**

Edited by: Prof. Vasile Iulian Antoniac, Simona Cavalu and Teodor Traistaru

This book includes papers collected for the 25th Symposium and Annual Meeting of the International Society for Ceramics in Medicine (BIOCERAMICS 25), held in Bucharest, Romania, from 7-10 November, 2013.

Volume is indexed by [Thomson Reuters CPCI-S \(WoS\)](#).

The papers were selected by reviewing the full papers of authors whose abstracts submitted to the Symposium were accepted after a blind peer-reviewing process, and reflected the most recent progress made in the study of bioceramics and their applications in medicine. The papers are focused not just on synthesis, processing and characterization of bioceramics, but also on surface modification, tissue engineering, nanomaterials and drug delivery. Which means that bioceramics are facing advanced towards the regeneration of the tissue by biomimetic design of structure and integration of biological function to optimize the tissue response. The strong contribution related to the application of bioceramics and composite materials in dentistry and orthopedics presented in this book confirm the importance of these materials for clinical practice in medical units.

**Conference Proceedings**

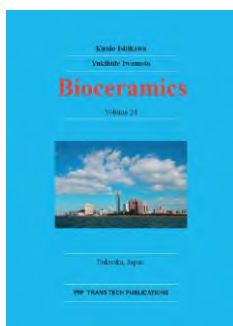
**Topics:** Bioscience and Medicine

**Keywords:** Amorphous Calcium Phosphate (ACP), Bioactivity, Bone Substitute, Calcium Phosphate, Chitosan, Collagen, Composite, Dental Materials, Hydroxyapatite (HA), Implant, Mechanical Property, Microstructural Properties, Scaffold, SEM, Simulated Body Fluid (SBF), Spectrophotometer, Stem Cells, Surface Modification, Tissue Engineering, Titanium Alloy

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 eBook Multi-User: **US\$ 347.00/ EUR 347.00**

Print: 978-3-03785-899-8  
 eBook: 978-3-03826-280-0  
 474 pages, 2013

<https://www.scientific.net/978-3-03785-899-8/book>

**Bioceramics 24**

**Selected, peer reviewed papers from the 24th Symposium and Annual Meeting of International Society for Ceramics in Medicine (ISCM 2012), October 21-24, 2012, Fukuoka, Japan**

Edited by: Kunio Ishikawa and Yukihide Iwamoto

Volume is indexed by [Thomson Reuters CPCI-S \(WoS\)](#).

The proceedings of the 24th annual meeting of the International Society for Ceramics in Medicine (*Bioceramics 24*), held in Japan, comprise 133 peer-reviewed papers arranged into 13 chapters: I. Advanced Calcium Phosphate Ceramics; II. Porous Materials; III. Cements; IV. Coatings; V. *in vivo* Studies and Clinical Application; VI. Cell Studies and Cell-Material Interactions; VII. Composites; VIII. Drug Delivery Carriers; IX. Dental Materials; X. Metals; XI. Zirconia and Alumina Ceramics; XII. Nano-Materials; XIII. Sol-Gel Synthesis and Other Materials. They will be of great help in exploiting the merits of ceramics and in overcoming their weakness in applications involving polymers and metals.

**Conference Proceedings**

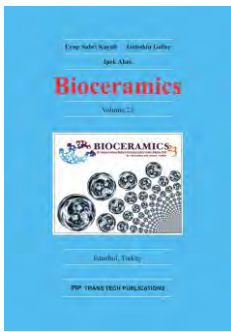
**Topics:** Bioscience and Medicine, Materials Science, Nanoscience

**Keywords:** Adsorption, Apatite, Bioceramic, Biocompatibility, Biphasic Calcium Phosphate (BCP), Bone, Calcium Phosphate, Carbonate Apatite, Cement, Coating, Composite, Hydrothermal Treatment, Hydroxyapatite (HAP), Inositol Hexaphosphate, Mechanical Property, Osteoblast, Scaffold, Surface Modification, Titanium, Zirconia

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 eBook Multi-User: **US\$ 347.00/ EUR 347.00**

Print: 978-3-03785-517-1  
 eBook: 978-3-03813-437-4  
 680 pages, 2012

<https://www.scientific.net/978-3-03785-517-1/book>



### Bioceramics 23

**Selected, peer reviewed papers from the 23rd Symposium and Annual Meeting of International Society for Ceramics in Medicine (ISCM 2011), November 6-9, 2011, Istanbul, Turkey**

Edited by: Eyup Sabri Kayali, Gültekin Goller and Ipek Akin

The Symposium and Annual Meeting of the International Society for Ceramics in Medicine, known as Bioceramics, provides a valuable forum where scientists and clinicians working in the dental and medical fields can discuss the exciting advances made in basic and applied research, and promote new technologies and applications of ceramics in medicine. These proceedings comprise 174 papers presented at the 23rd Symposium and Annual Meeting of the International Society for Ceramics in Medicine (ISCM) held on November 6-9th, 2011 in Istanbul, Turkey. In Bioceramics 23, the papers have been categorized into 21 of the most topical and essential themes of ceramics in medicine: including characterization, design and processing technologies, tissue engineering, nanotechnology, surface modification, composites, drug delivery and interdisciplinary studies. The work will thus be of great help in taking advantage of the merits of ceramics, and overcoming their weakness in various applications involving polymers and metals.

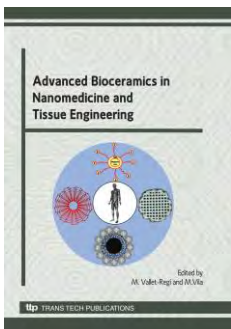
#### Conference Proceedings

**Topics:** Bioscience and Medicine

**Keywords:** Apatite, Bioactive Glass, Bioactivity, Biocompatibility, Bone Substitute, Calcium Phosphate, Calcium Phosphate Cement (CPC), Chitosan (CS), Coating, Composite, Cytotoxicity, Gelatin, Hydroxyapatite (HAP), Scaffold, SEM, Simulated Body Fluid (SBF), Tissue Engineering, Titanium, Tricalcium Phosphate, X-Ray Diffraction (XRD)

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 eBook Multi-User: **US\$ 347.00/ EUR 347.00** 1000 pages, 2011

<https://www.scientific.net/978-3-03785-255-2/book>



### Advanced Bioceramics in Nanomedicine and Tissue Engineering

**Special topic volume with invited peer reviewed papers only.**

Edited by: M. Vallet-Regí and M. Vila

Volume is indexed by [Thomson Reuters BCI \(WoS\)](#).

Nanoscience is revolutionizing the design of medical devices, tissue scaffolding and drug-delivery systems. New discoveries regarding nano-system, made in other research areas, have opened up the possibility of using them in biomedicine. However, such nanoscience and its possibilities, which sometimes border on science fiction, have to be kept in perspective so as not to lose sight of the limitations with respect to safety that applications within the human body impose.

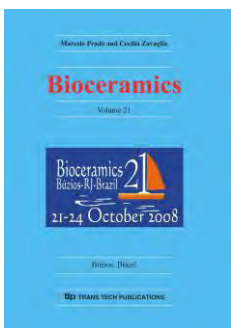
#### Special Topic

**Topics:** Materials Science

**Keywords:** Apatite, Bioactive Glass, Biofunctionalization, Bone, Carbon Nanotube (CN), Cartilage, Drug Combined Device, Drug Delivery, Endothelial Tissue, Excipient, Iron Oxide Nanoparticles, Magnetic Drug Targeting, Mesoporous, Ordered Mesoporous Silica, Osteogenic, Polymer Templating, Porous Ceramics, Rapid Prototyping (RP), Scaffold, Tissue Engineering

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 eBook Single-User: **US\$ 198.00/ EUR 198.00** eBook: 978-3-03813-352-0  
 eBook Multi-User: **US\$ 347.00/ EUR 347.00** 392 pages, 2010

<https://www.scientific.net/978-0-87849-270-1/book>



### Bioceramics 21

**Selected Papers from 21st International Symposium on Ceramics in Medicine, The Annual Meeting of the International Society for Ceramics in Medicine (ISCM), Búzios, Brazil, 21-24 October 2008**

Edited by: Marcelo Prado and Cecília Zavaglia

This volume in the Bioceramics series includes the papers selected for the 21st International Symposium on Ceramics in Medicine held in Búzios, Brazil, on the 21-24 October 2008.

\Volume is indexed by [Thomson Reuters CPCI-S \(WoS\)](#).

The Bioceramics 21 Proceedings includes a section which is devoted to theoretical modelling; an important and new issue which involves several fields of knowledge. This trend is reflected by the high number of papers involving both biological and materials sciences. Following the evolution of regenerative medicine, a third generation of bioceramics is represented in these Proceedings by the variety of papers on tissue engineering, nanotechnology and smart materials.

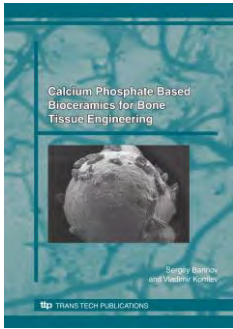
#### Conference Proceedings

**Topics:** Materials Science

**Keywords:** Apatite, Bioactivity, Bioceramic, Biocompatibility, Biomaterial, Calcium Phosphate, Calcium Phosphate Cement (CPC), Coating, Collagen, Composite, FT-IR, Hydroxyapatite (HAP), *In Vitro*, Mechanical Property, Osteoblast, Scaffold, Sol-Gel (SG), Titanium (Ti), Tricalcium Phosphate, X-Ray Diffraction (XRD)

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**Calcium Phosphate Based Bioceramics for Bone Tissue Engineering**

Edited by: Sergey Barinov and Vladimir Komlev

Tissue engineering is a new biotechnology that combines various aspects of medicine, biology and engineering, in order to produce, repair or replace human tissue. It is therefore easy to grasp the potential of these new therapies in helping to improve the quality-of-life of patients suffering from rare diseases. Typically, bone tissue engineering approaches foresee the use of scaffolding material combined with tissue cells. An advanced scaffolding material for tissue engineering must exhibit high quality, reliability, sustainability and cost-effectiveness throughout the individual's life and provide new advanced levels of medical assistance in therapy and surgery. One particular requirement of bone tissue engineering is that the scaffold should be porous because, in that form, large numbers of cells can be incorporated.

**Monograph**

**Topics:** Materials Science

**Keywords:** Bioceramics, Bone Cements, Bone Tissue Engineering, Calcium Phosphate, Crystallochemistry, Porous Ceramics, Scaffolds Material, Surgery, Therapy

Prices: Print: **US\$ 138.00/ EUR 138.00** Print: 978-0-87849-380-7  
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 eBook Multi-User: **US\$ 242.00/ EUR 242.00** 170 pages, 2008

<https://www.scientific.net/978-0-87849-380-7/book>



**Progress in Bioceramics**

**Special topic volume with invited papers only**

Edited by: Maria Vallet-Regí

Volume is indexed by [Thomson Reuters BCI \(WoS\)](#).

The main purpose of this special-topic book, devoted to current trends in bioceramics, is to survey the present situation in this field, and to cover as fully as possible the various lines of research. The book includes many ceramic materials having clinical applications; some of them already entirely feasible, while others are expected to be available in the very near future.

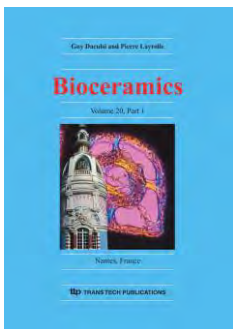
**Special Topic**

**Topics:** Materials Science

**Keywords:** Bioactive Glass, Bioactivity, Calcium Phosphate, Osteoconduction, Tissue Engineering

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 eBook Multi-User: **US\$ 347.00/ EUR 347.00** 284 pages, 2008

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**Bioceramics 20**

**Selected, peer reviewed papers from the 20th International Symposium on Ceramics in Medicine, The Annual Meeting of the International Society for Ceramics in Medicine (ISCM), Nantes, France, 24-26 October 2007**

Edited by: Guy Daculsi and Pierre Layrolle

This volume of the Bioceramics series includes the papers selected for the 20th International Symposium on Ceramics in Medicine held in Nantes, France, from the 24th to the 26th of October, 2007.

Volume is indexed by [Thomson Reuters CPCI-S \(WoS\)](#).

Some of the topics covered deal with advanced materials and technologies that support the exciting technique of the regeneration of osteoarticular tissues using minimal invasive surgery and bioactive prostheses.

**Conference Proceedings**

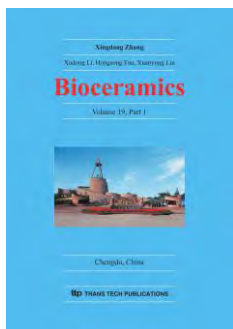
**Topics:** Materials Science

**Keywords:** Apatite, Bioactive Glass, Bioactivity, Bioceramic, Biocompatibility, Calcium Phosphate, Calcium Phosphate Ceramic, Coating, Composite, Hydroxyapatite (HAP), Implant, Octacalcium Phosphate, Osteoblast, Scaffold, Simulated Body Fluid (SBF), Tissue Engineering, Titanium (Ti), Tricalcium Phosphate, Zirconia,  $\beta$ -Tricalcium Phosphate ( $\beta$ -TCP)

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 eBook Multi-User: **US\$ 347.00/ EUR 347.00** 1428 pages, 2007

<https://www.scientific.net/978-0-87849-457-6/book>



**Bioceramics 19****Proceedings of the 19th International Symposium on Ceramics in Medicine, The Annual Meeting of the International Society for Ceramics in Medicine, Chengdu, China, 10-13 October 2006**

Edited by: Xingdong Zhang, Xudong Li, Hongsong Fan, Xuanyong Liu

This latest volume in the Bioceramics series is a collection of selected papers submitted to the 19th International Symposium on Ceramics in Medicine, held in Chengdu, China, from the 10 to 13th October, 2006.

Volume is indexed by [Thomson Reuters CPCI-S \(WoS\)](#).

Among the many topics covered by the papers are: bio-active and bio-inert ceramics, composites, coatings, bioactive cements, porous materials, dental materials, orthopaedic implants, antibacterial materials, protein absorption, cell-material interactions in vitro, tissue response and clinical applications. In particular, tissue engineering, drug delivery, nanotechnology and surface modification were covered by an appreciable number of papers; thus reflecting the rapid progress made in these cutting-edge research topics and the latest directions taken by developments in biomaterials and their clinical applications.

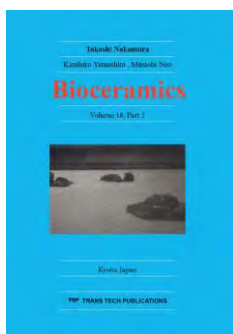
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**Bioceramics 18****Proceedings of the 18th International Symposium on Ceramics in Medicine, The Annual Meeting of the International Society for Ceramics in Medicine (ISCM), Kyoto, Japan, 5-8 December 2005**

Edited by: Takashi Nakamura, Kimihiro Yamashita and Masashi Neo

This important work is a compilation of the papers presented at the 18th Annual Meeting of the International Society for Ceramics in Medicine (ISCM) held on December 8-12, 2005 in Kyoto, Japan.

Volume is indexed by [Thomson Reuters CPCI-S \(WoS\)](#).

Bioceramics 18 is a report of the latest progress made in the study of bioceramics and their applications in medicine; especially the repair of bone defects. The ever-increasing impact of bioceramics is reflected within the pages of this book.

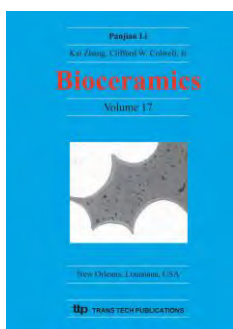
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**Bioceramics 17****Proceedings of the 17th International Symposium on Ceramics in Medicine, The Annual Meeting of the International Society for Ceramics in Medicine, New Orleans, Louisiana, USA, 8-12 December 2004**

Edited by: Panjian Li, Kai Zhang and Clifford W. Colwell, Jr.

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Bioceramics 17 is comprised of the papers presented at the 17th Annual Meeting of the International Society for Ceramics in Medicine (ISCM) held on December 8 thru 12, 2004 in New Orleans, Louisiana USA.

**Conference Proceedings**

**Topics:** Materials Science

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**Bioceramics 16**



**Proceedings of the 16th International Symposium on Ceramics in Medicine, Porto, Portugal, 6-9 November, 2003**

Edited by: Mário A. Barbosa, Fernando J. Monteiro, Rui Correia, Betty Leon

Volume is indexed by [Thomson Reuters CPCI-S \(WoS\)](#).

Since their inception, the Bioceramics meetings have provided a treasure-house of invaluable information for both scientists and clinicians in the medical field.

**Conference Proceedings**

**Topics:** Materials Science

**Keywords:** Apatite, Bioactive Glass, Bioactivity, Bioceramic, Biomaterial, Calcium Phosphate, Calcium Phosphate Cement (CPC), Coating, Collagen, Composite, Hydroxyapatite (HAP), Mechanical Property, Osteoblast, Porous Ceramics, Scaffold, Simulated Body Fluid (SBF), Sol-Gel (SG), Tissue Engineering, Titanium (Ti), Tricalcium Phosphate

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**Bioceramics 15**



**15th International Symposium on Ceramics in Medicine, Sydney, Australia, December 4th-8th, 2002**

Edited by: Besim Ben-Nissan, Doron Sher, William Walsh

Volume is indexed by [Thomson Reuters CPCI-S \(WoS\)](#).

Since their inception Bioceramics meetings have provided a treasure house of information for both scientists and clinicians in the medical field. The clinical applications are numerous, in particular in the areas of orthopaedics, maxillofacial, plastic and ocular surgery, percutaneous devices, tissue engineering and sensors. This volume in addition to research papers contributed also presents selected overviews and discussions on recent bioceramics research and trends.

**Conference Proceedings**

**Topics:** Materials Science

**Keywords:** Aluminum (Al), Animal Studies, Apatite, Bioactive Glass, Bioactivity, Bioceramic, Biomimetic, Calcium Phosphate, Clinical, Composite, Hybrid, Hydroxyapatite (HAP), Mechanical Property, Osteoblast, Simulated Body Fluid (SBF), Sol-Gel (SG), Tissue Engineering, Titanium (Ti), Wear, Zirconia

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**Bioceramics 14**



Edited by: Sharon Brown, Ian Clarke and Paul Williams

Bioceramics has evolved into a major field of study having important implications for humankind's future health and wellbeing.

Volume is indexed by [Thomson Reuters CPCI-S \(WoS\)](#).

The Bioceramics-14 monograph contains more than 160 papers with representations from over 20 countries. The topics range from totally inert, load-bearing materials, such as alumina, zirconia, silicon nitride and diamond to bioactive materials such as calcium phosphates and bioglasses. The latter have great potential for aiding grafting, bone repair, drug-delivery, and implant-fixation to living tissues.

**Conference Proceedings**

**Topics:** Materials Science

**Keywords:** Aluminum (Al), Apatite, Bioactive Glass, Bioactivity, Biocompatibility, Bone, Calcium Phosphate, Ceramic, Composite, Hydroxyapatite (HAP), Mechanical Property, Osteoblast, Osteogenesis, Poly(methyl methacrylate) (PMMA), Simulated Body Fluid (SBF), Sol-Gel (SG), Tissue Engineering, Titanium (Ti), Wear, Zirconia

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**Bioceramics 13**



**Proceedings of the 13th Int. Symp. on Ceramics in Medicine, Bologna, Italy, 22-26 Nov. 2000**

Edited by: S. Giannini and A. Moroni

Volume is indexed by [Thomson Reuters CPCI-S \(WoS\)](#).

Bioceramics 13 contains the proceedings of the 13th International Symposium on Ceramics in Medicine organized by the "International Society for Ceramics in Medicine". This society is an established forum for distinguished material scientists, bioengineers, molecular and cellular biologists, bone biologists, orthopedic surgeons, clinicians and manufacturers, to gather together and discuss the latest achievements in the field of bioceramic materials.

**Conference Proceedings**

**Topics:** Materials Science

**Keywords:** Apatite, Bioactive, Bioactive Glass, Bioactivity, Bioceramic, Biocompatibility, Biomaterial, Bone Substitute, Calcium Phosphate, Calcium Phosphate Cement (CPC), Ceramic, Coating, Composite, Hydroxyapatite (HAP), Osteogenesis, Simulated Body Fluid (SBF), Sol-Gel (SG), Tissue Engineering, Titanium (Ti), Wear

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Edited by: James F. Shackelford

The purpose of this monograph is to provide a concise, up-to-date reference on these important biomaterials. Engineered materials play a critical role in modern biomedical applications, and crystalline ceramics (as well as the chemically-related, non-crystalline glasses) are finding increasingly wide uses.

**Conference Proceedings**

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