

Special Issue

Composites: Biomaterials in Dental Fields

Message from the Guest Editor

Composite materials are widely used in the dental field in clinics as biomaterials. For example, they have been used as a biomaterial to repair caries and restore masticatory function, and as a cement to adhere the restoration to the tooth substrate. In order to demonstrate their function, dental biomaterials are measured by measuring their own mechanical strength, compatibility with the marginal adaptation as a tooth restoration material, and adhesion to tooth substrate using a bonding agent. From such basic research, we are studying the potential of dental biomaterials. We are studying composite materials, aiming at biomaterials that combine mechanical properties similar to those of the tooth, and chewing, thermal stimulation, and aesthetic elements in the oral cavity. In this volume, we introduce the situation of commercial products that commercialize composites suitable for such purpose, the current state of compatibility test for mechanical properties and tooth quality, and provide readers with composite materials used in clinical dentistry. I want to introduce “composite materials” in dental fields.

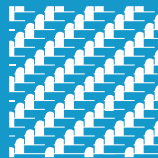
Guest Editor

Dr. Masao Irie

Department of Biomaterials, Graduate School of Medicine, Dentistry and Pharmaceutical Science, Okayama University, Okayama 700-8525, Japan

Deadline for manuscript submissions

closed (31 May 2021)



Journal of Composites Science

an Open Access Journal
by MDPI

Impact Factor 3.7
CiteScore 5.8



mdpi.com/si/44420

Journal of Composites Science
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
jcs@mdpi.com

mdpi.com/journal/

[jcs](https://www.mdpi.com/journal/jcs)





Journal of Composites Science

an Open Access Journal
by MDPI

Impact Factor 3.7
CiteScore 5.8



mdpi.com/journal/

[jcs](https://mdpi.com/journal/jcs)



About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

Dr. Francesco Tornabene

Department of Innovation Engineering, University of Salento, 73100
Lecce, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid
by authors or their institutions.

High Visibility:

indexed within Scopus, ESCI (Web of Science), Inspec,
CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Materials Science, Composites) / CiteScore - Q1
(Engineering (miscellaneous))