Special Issue

Degradation and Evolution of Energy Materials

Message from the Guest Editors

Energy materials are essential in our modern world and are expected to have useful lifetimes that range from 25 to over 50 years. The need for long lifetimes and large investments are barriers that new energy producing technologies must surmount to provide a substantial proportion of global energy. This has motivated many researchers to focus on the science of degradation and evolution of energy materials. Green and everlasting energy materials have also received increasing attention as regards the development of sustainable energy systems. In order to develop these energy materials, the degradation and evolution characteristics of energy materials should be identified, and diagnostic and prognostic methods to elucidate degradation or evolution mechanisms should be studied. Novel sensing technologies also help toward the real-time monitoring degradation of energy materials. This Special Issue aims to collect original research and review articles that report results focused on the degradation and evolution of energy materials for green and sustainable energy systems.

Guest Editors

Dr. Ki-Yong Oh

School of Mechanical Engineering, Hanyang University, Seoul 04763, Republic of Korea

Prof. Dr. Kyungwho Choi

School of Aerospace and Mechanical Engineering, Korea Aerospace University, Goyang 10540, Korea

Deadline for manuscript submissions

closed (20 June 2023)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/87953

Materials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
materials@mdpi.com

mdpi.com/journal/materials

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/journal/materials

MDPI

About the Journal

Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

Editor-in-Chief

Prof. Dr. Maryam Tabrizian
1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Author Benefits

Open Access:

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

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank:

JCR - Q2 (Metallurgy and Metallurgical Engineering) / CiteScore - Q1 (Condensed Matter Physics)