

## Special Issue

# Inkjet Printing of Nanomaterials

### Message from the Guest Editor

Inkjet printing is an enabling manufacturing tool for commercialization of nanomaterials in various devices, including fuel cells, batteries, supercapacitors, thin-film photovoltaics and transistors, sensors, etc. In recent years, significant advances have been made in the functionalization of printable nanomaterials in areas where conventional manufacturing methods became inapplicable. A common feature in all type of jetting technologies is the ability to dispense controllably drops in the range of pico- to nano- liter volumes at high rates (kHz). It allows precise uniformity control and introduces the possibility of printing 2D and 3D patterns. Inkjet printing systems offer a wide scale of application: From experimental platforms working with customized inks, up to mass manufacturing systems that can print rapidly and competitively on industrial scale. The technology is environmentally friendly due to waste minimization of the expensive precursors. Keywords: inkjet printing; nanomaterials; energy devices; commercialization; 2D and 3D patterns

---

### Guest Editor

Dr. Rumen I. Tomov

Department of Materials Science and Metallurgy, University of Cambridge, Cambridge, UK

---

### Deadline for manuscript submissions

closed (31 January 2019)



## Nanomaterials

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.3  
CiteScore 9.2  
Indexed in PubMed



[mdpi.com/si/14190](https://mdpi.com/si/14190)

*Nanomaterials*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[nanomaterials@mdpi.com](mailto:nanomaterials@mdpi.com)

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





# Nanomaterials

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.3  
CiteScore 9.2  
Indexed in PubMed



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



## About the Journal

### Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano–alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

---

### Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones

School of Geography, Earth and Environmental Science, University of  
Birmingham, Birmingham B15 2TT, UK

---

### 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, CAPIus / SciFinder, Inspec, and other databases.

#### Journal Rank:

JCR - Q2 (Physics, Applied) / CiteScore - Q1 (General  
Chemical Engineering)