EDITORIAL

Welcome to Nano Express

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Abstract
Science at the nanoscale is multidisciplinary and intersects communities extending across physics, materials science, engineering, chemistry, biology, medicine and environmental science as well as industry. Nano Express reflects this situation as a cross-disciplinary open access journal that builds upon IOP Publishing’s long-standing reputation of serving the whole nanoscience community.

On behalf of the Editorial Board and IOP Publishing, I am pleased to announce the opening of the inaugural issue of Nano Express, a new open access journal devoted to the rapid publication of new experimental, theoretical and applied research extending across all areas of nanoscale science and technology. It will compliment Nanotechnology and Nano Futures as a trio of connected titles within IOP’s portfolio dedicated to nanoscale science.

Characterized by a broad subject coverage, fast-track peer-review process and an inclusive editorial selection process focused on the scientific rigour and validity of the work, Nano Express will cover topics extending across all fields of nanoscale science. Areas of particular interest include (but are not limited to):

- Synthesis and functionalization of nanostructured materials;
- Study of the self- and directed-assembly of chemical species into nanoscale objects and nanocomposites;
- Quantum dots, nanoparticles, nanowires, nanotubes, 2D layered materials, and thin films;
- Characterization of the physical and chemical properties of nanoscale systems in 0D, 1D and 2D;
- Nanofabrication and patterning of materials;
- Nanoelectronic devices and nanoelectromechanical systems;
- Nanoscale and molecular electronics;
- Sensing and detectors;
- Nanotechnology in magnetic systems, nanoscale optoelectronics, nanophotonics;

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• Energy at the nanoscale and the use of nanostructures to develop alternative energy solutions;
• Nanomotors, nanofluidics;
• Nanomedicine, biotechnology and pharmaceutical applications;
• Quantum phenomena and technology;
• Theoretical and computational nanoscience;

Science at the nanoscale is multidisciplinary and involves communities extending across physics, materials science, chemistry, engineering, medicine and the biological sciences, as well as industry. Our aim is for Nano Express to reflect this situation as a single, cross-disciplinary open access journal that builds upon IOP’s long-standing reputation of serving the nanoscience community. To ensure that we achieve such a high standard, we have an expanding and geographically diverse Editorial Board comprised of experts from across several fields.

Nano Express is aimed at scientists in all parts of the world carrying out research at the nanoscale. As the journal title suggests, a key goal will be to provide authors with very fast publication. The Editorial Board is committed to directing a streamlined peer-review procedure that guarantees a rapid but rigorous editorial decision-making process in line with the journal’s acceptance criteria. The broad scope of Nano Express means that it will also provide authors and collaborations with a unique channel to publish articles that may be beyond the scope of more specialised nanoscience journals.

Indeed, taking advantage of the relationship between Nano Express and IOP Publishing’s broader nanoscience portfolio (including Nanotechnology and Nano Futures) in cases where an article is considered by the editors to be out-of-scope or editorially unsuitable for a particular journal, authors may be given the option to benefit from a streamlined article transfer process in which their work will be re-directed without delay for consideration by Nano Express. Where relevant all previous reviewer reports and correspondence will also be transferred in the interest of expediting the transfer and decision-making process and reducing the overall burden on reviewers.

As an open access journal articles in Nano Express are published under a Creative Commons Attribution (CC-BY) licence and are freely available to everyone to read and reuse immediately upon publication. We believe that this is the most appropriate model in serving a research community where demand for open science principles is high. The journal is funded by article publication charges however IOP Publishing is covering all publication costs for any article submitted before the end of 2020. This means that our first authors will get all of the benefits that open access brings without paying a fee.

I am confident that these key journal characteristics, combined with IOP’s long-standing commitment and reputation as a leading society publisher, will ensure that Nano Express quickly becomes an established and valuable new addition to the publishing landscape within nanoscience. I hope that you enjoy reading our first papers by Urban et al [1], Ohoka et al [2], Mukherjee et al [3], Cherepanov et al [4], Tadeo et al [5], Kumar et al [6] and Haque et al [7] and that you will consider Nano Express as a rapid publication outlet for your own future research.

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