Meet the team

Editor-in-chief

Peter Vikesland Virginia Tech, USA

Associate editors

John Fortner Washington University in St Louis, USA

Zhang Lin South China University of Technology, China

Iseult Lynch University of Birmingham, UK

Joel Pedersen University of Wisconsin-Madison, USA

Kristin Schirmer Swiss Federal Institute of Aquatic Science and Technology, Eawag, Switzerland

Wei-Guo Song Institute of Chemistry, Chinese Academy of Sciences, China

Editorial board members

Greg Lowry Carnegie Mellon University, USA

Jerome Rose European Centre for Research and Teaching in Environmental Geosciences, France

Nathalie Tufenkji McGill University, Canada

Frank von der Kammer University of Vienna, Austria

Executive Editor

Simon Neil Royal Society of Chemistry

Deputy Editor

Emma Eley Royal Society of Chemistry

Editorial Production Manager

Claire Darby Royal Society of Chemistry

Email

esnano-rsc@rsc.org

Environmental Science portfolio

Environmental Science: Nano is published alongside its two sister journals:

Environmental Science: Processes & Impacts – a multidisciplinary journal for the environmental chemical sciences

Environmental Science: Water Research & Technology – innovation for sustainable water

More details about the environmental science portfolio can be found at **rsc.li/envsci**

For the future of the chemical sciences

We are a non-profit organisation with a reputation strengthened over 177 years. However you work with chemistry, we exist to support you – for the benefit of science and humanity.

As a society publisher, we provide access to cutting-edge chemical science content through books, journals and databases that cover core disciplines, related fields and emerging topics.

For influence and impact

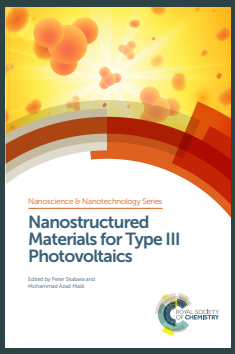
The research we publish travels the world. As one of our authors, your work will be seen by a global audience in journals with an average impact factor of 6.593 – raising your profile and supporting international scientific progress.

For inspiration and ideas

Chemistry has unlimited potential to change lives for the better. Our publications are gateways to knowledge that can enhance R&D, drive innovation and help to solve some of the world's biggest challenges.

Books and reference works in your field:

To browse the full collection of journals, books and databases, visit **rsc.li/portfolio**



For updates on subjects that interest you, sign up at **rsc.li/alerts**

Royal Society of Chemistry
www.rsc.org

Registered charity number: 207890
© Royal Society of Chemistry

Thomas Graham House
Science Park, Milton Road
Cambridge, CB4 0WF, UK

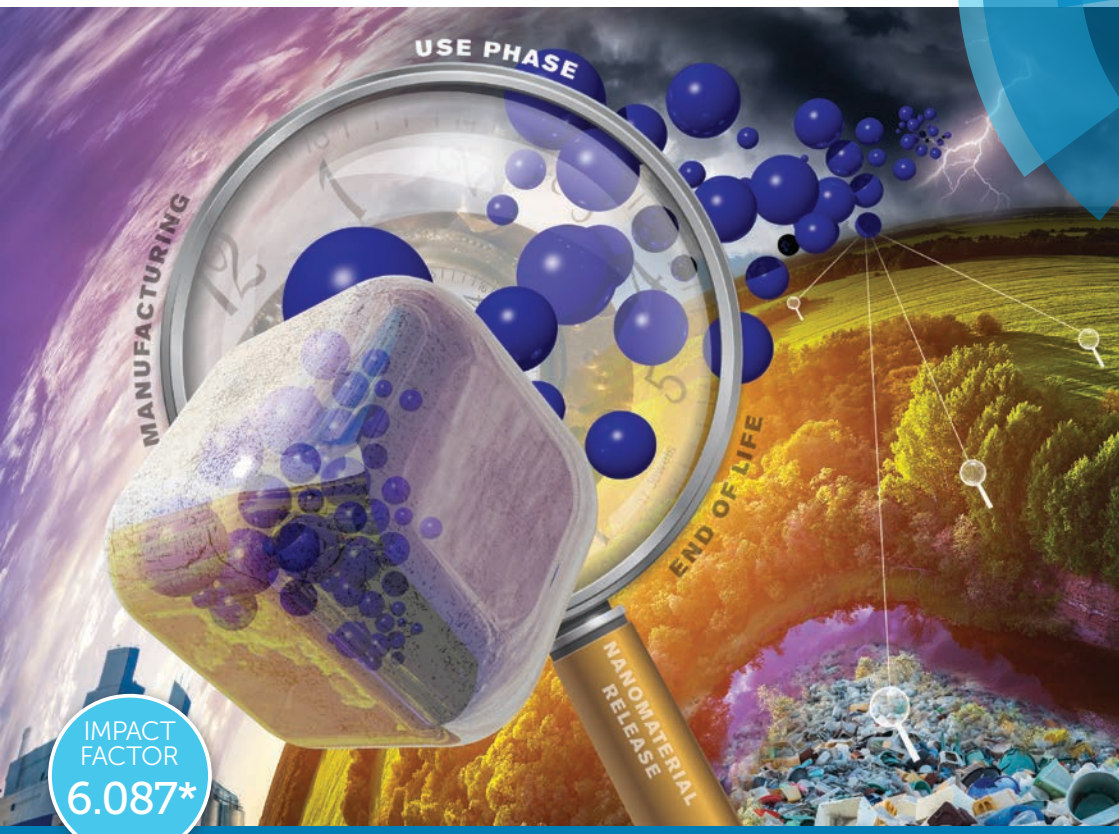
T +44 (0) 1223 420066

Burlington House
Piccadilly, London
W1J 0BA, UK

T +44 (0) 20 7437 8656

International offices
Beijing, China
Shanghai, China
Berlin, Germany
Bangalore, India
Tokyo, Japan
Philadelphia, USA
Washington, USA

Environmental Science
Nano



IMPACT FACTOR 6.087*

Nanomaterial applications and interactions with environmental & biological systems

ROYAL SOCIETY OF CHEMISTRY

rsc.li/es-nano

About the journal

Environmental Science: Nano is the leading journal dedicated to nanomaterial applications and interactions with environmental and biological systems. Our scope is highly interdisciplinary; we welcome research that aids fundamental understanding of how nanomaterial properties affect their reactivity, environmental fate, and toxicity in a range of environmental and biological media/systems, as well as research which furthers our understanding of how nanomaterial properties can be controlled to optimise the benefits of a particular technology. Specific topics include:

- Rational design
- Life cycle implications
- Quantifying the benefits and risks of nanomaterial applications
- Biological uptake and ecotoxicity
- Novel applications for water, air, soil, food and energy
- Characterisation in biological and environmental media
- Nano–bio interactions
- Environmental fate, reactivity and transformations
- Environmental remediation

We publish innovative, high impact research – our impact factor of 6.087* places us in the top 7% of journals indexed in the Environmental Sciences JCR category. Editor-in-chief Peter Vikesland (Virginia Tech) guides our team of international associate editors (John Fortner, Zhang Lin, Iseult Lynch, Joel Pedersen, Kristin Schirmer and Wei-Guo Song) who handle all submissions through peer review – maintaining our high acceptance criteria. We are committed to providing exceptional customer service right through from receipt to publication. Our times to publication are rapid**, plus, as a journal published on a not-for-profit basis by the Royal Society of Chemistry, we are committed to supporting the global scientific community through our charitable activities such as education, outreach, events, science policy and more.

*2018 Journal Citation Reports based on 2017 Web of Science data. © Clarivate Analytics, 2018.
**Average time to first decision in 2017 was 42 days.

Image reproduced by permission of Leanne M. Gilbertson from ***Environ. Sci.: Nano***, 2017, **4**, 1784. Image created by Michael Northrop.

Content highlights

Challenges in characterizing the environmental fate and effects of carbon nanotubes and inorganic nanomaterials in aquatic systems

Peter Laux, Christian Riebeling, Andy M. Booth, Joseph D. Brain, Josephine Brunner, Cristina Cerrillo, Otto Creutzenberg, Irina Estrela-Lopis, Thomas Gebel, Gunnar Johanson, Harald Jungnickel, Heiko Kock, Jutta Tentschert, Ahmed Tlili, Andreas Schäffer, Adriënne J. A. M. Sips, Robert A. Yokel and Andreas Luch

Environ. Sci.: Nano, 2018, **5**, 48–63

dx.doi.org/10.1039/C7EN00594F

Where is the nano? Analytical approaches for the detection and quantification of TiO_2 engineered nanoparticles in surface waters

Andreas Gondikas, Frank von der Kammer, Ralf Kaegi, Olga Borovinskaya, Elisabeth Neubauer, Jana Navratilova, Antonia Praetorius, Geert Cornelis and Thilo Hofmann

Environ. Sci.: Nano, 2018, **5**, 313–326

dx.doi.org/10.1039/C7EN00952F

Engineered superparamagnetic nanomaterials for arsenic(V) and chromium(VI) sorption and separation: quantifying the role of organic surface coatings

Changwoo Kim, Seung Soo Lee, Brandon J. Lafferty, Daniel E. Giammar and John D. Fortner

Environ. Sci.: Nano, 2018, **5**, 556–563

dx.doi.org/10.1039/C7EN01006K

Heteroaggregation of nanoplastic particles in the presence of inorganic colloids and natural organic matter

Olena Oriekhova and Serge Stoll

Environ. Sci.: Nano, 2018, **5**, 792–799

dx.doi.org/10.1039/C7EN01119A

Experimental and theoretical calculation investigation on efficient Pb(II) adsorption on etched Ti_3AlC_2 nanofibers and nanosheets

Pengcheng Gu, Jinlu Xing, Tao Wen, Rui Zhang, Jian Wang, Guixia Zhao, Tasawar Hayat, Yuejie Ai, Zhang Lin and Xiangke Wang

Environ. Sci.: Nano, 2018, **5**, 946–955

dx.doi.org/10.1039/C8EN00029H

Using an environmentally-relevant panel of Gram-negative bacteria to assess the toxicity of polyallylamine hydrochloride-wrapped gold nanoparticles

Joseph T. Buchman, Ali Rahnamoun, Kaitlin M. Landy, Xi Zhang, Ariane M. Vartanian, Lisa M. Jacob, Catherine J. Murphy, Rigoberto Hernandez and Christy L. Haynes

Environ. Sci.: Nano, 2018, **5**, 279–288

dx.doi.org/10.1039/C7EN00832E

Emerging investigator series: the rise of nano-enabled photothermal materials for water evaporation and clean water production by sunlight
Peng Wang
Environ. Sci.: Nano, 2018, **5**, 1078–1089
dx.doi.org/10.1039/C8EN00156A

Machine learning provides predictive analysis into silver nanoparticle protein corona formation from physicochemical properties
Matthew R. Findlay, Daniel N. Freitas, Maryam Mobed-Miremadi and Korin E. Wheeler
Environ. Sci.: Nano, 2018, **5**, 64–71
dx.doi.org/10.1039/C7EN00466D

Life cycle considerations of nano-enabled agrochemicals: are today's tools up to the task?
Leila Pourzahedi, Madelyn Pandorf, Dwarakanath Ravikumar, Julie B. Zimmerman, Thomas P. Seager, Thomas L. Theis, Paul Westerhoff, Leanne M. Gilbertson and Gregory V. Lowry
Environ. Sci.: Nano, 2018, **5**, 1057–1069
dx.doi.org/10.1039/C7EN01166K

Ni–Mn LDH-decorated 3D Fe-inserted and N-doped carbon framework composites for efficient uranium(VI) removal
Jiahui Zhu, Qi Liu, Jingyuan Liu, Rongrong Chen, Hongsen Zhang, Rumin Li and Jun Wang
Environ. Sci.: Nano, 2018, **5**, 467–475
dx.doi.org/10.1039/C7EN01018D

Extraordinary science
Accessible to all

Visit **rsc.li/chemical-science** and get to know the breadth and quality of the Royal Society of Chemistry's gold open access, flagship journal.