Nanoscale Advances

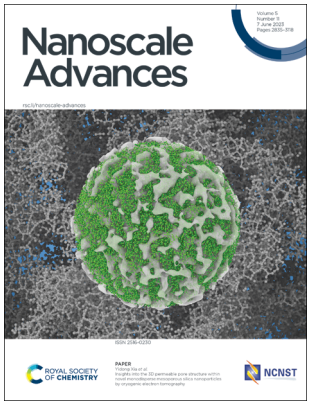
An open access journal publishing across the breadth of nanoscience and nanotechnology

rsc.li/nanoscale-advances

The Royal Society of Chemistry is the world's leading chemistry community. Through our high impact journals and publications we connect the world with the chemical sciences and invest the profits back into the chemistry community.

IN THIS ISSUE

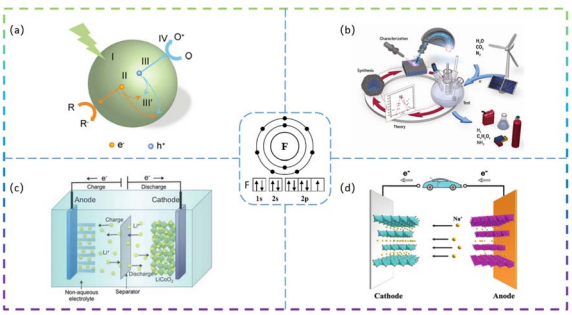
ISSN 2516-0230 CODEN NAADAI 5(11) 2835–3118 (2023)



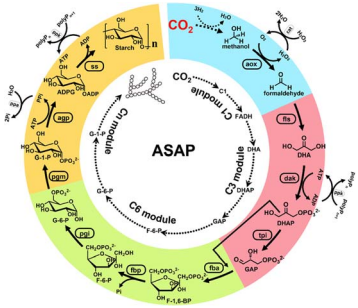
Cover
See Yidong Xia *et al.*, pp. 2879–2886.
Image reproduced by permission of Yidong Xia from *Nanoscale Adv.*, 2023, **5**, 2879.

Inside cover
See Md. Kawsar Alam *et al.*, pp. 2887–2896.
Image reproduced by permission of Md. Kawsar Alam from *Nanoscale Adv.*, 2023, **5**, 2887.

REVIEW



MINIREVIEW



Nanoscale Advances (electronic: ISSN 2516-0230) is published 24 times a year by the Royal Society of Chemistry, Thomas Graham House, Science Park, Milton Road, Cambridge, UK CB4 0WF.

Nanoscale Advances is a Gold Open Access journal and all articles are free to read. Please email orders@rsc.org to register your interest or contact Royal Society of Chemistry Order Department, Royal Society of Chemistry, Thomas Graham House, Science Park, Milton Road, Cambridge, CB4 0WF, UK Tel +44 (0)1223 432398; E-mail: **orders@rsc.org**

Nanoscale Advances

rsc.li/nanoscale-advances

Nanoscale Advances publishes experimental and theoretical work across the breadth of nanoscience and nanotechnology.

NCNST

Published in collaboration with the National Centre for Nanoscience and Technology, Beijing, China

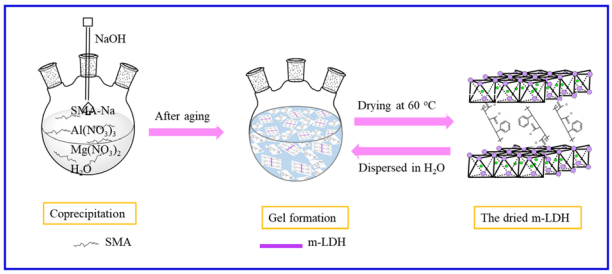
Information for Authors

Full details on how to submit material for publication in Nanoscale Advances are given in the Instructions for Authors (available from http://**www.rsc.org/authors**). Submissions should be made via the journal's homepage: **rsc.li/nanoscale-advances**

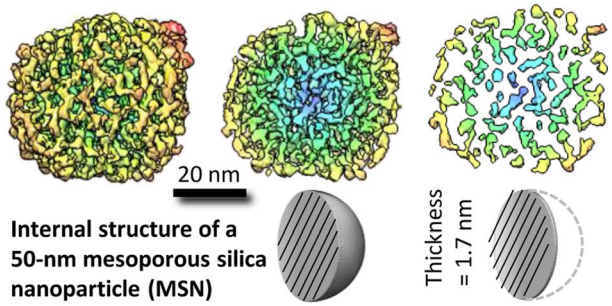
Registered charity number: 207890

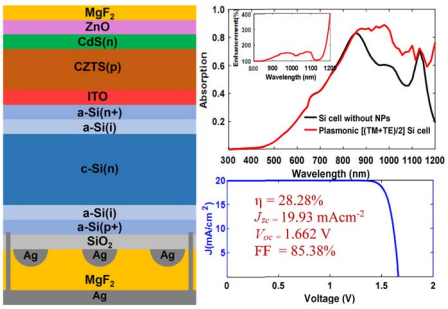
ROYAL SOCIETY OF CHEMISTRY

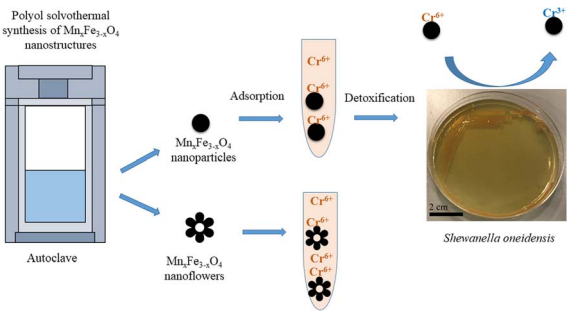
COMMUNICATION



PAPERS

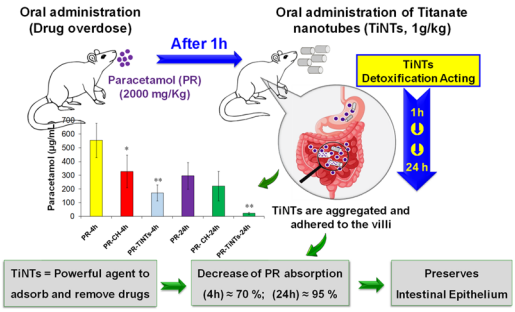


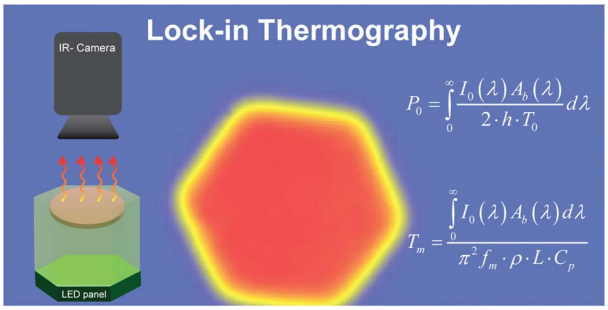


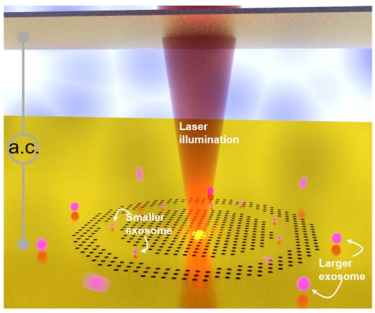


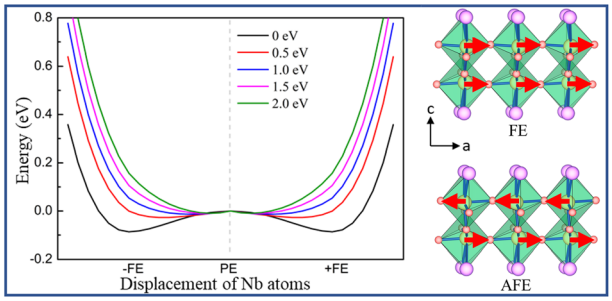
PAPERS

PAPERS



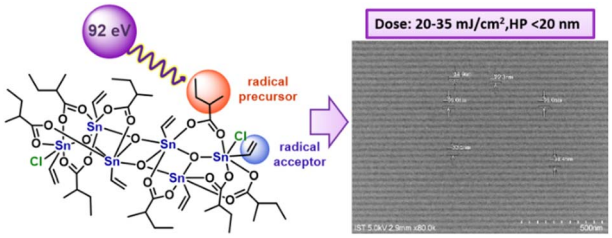


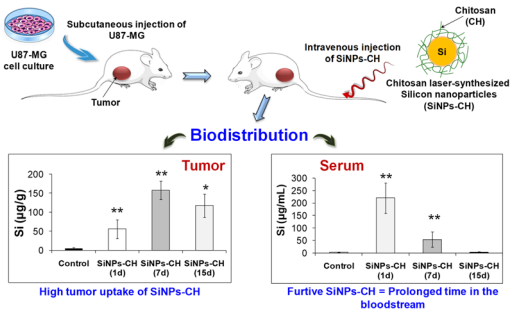


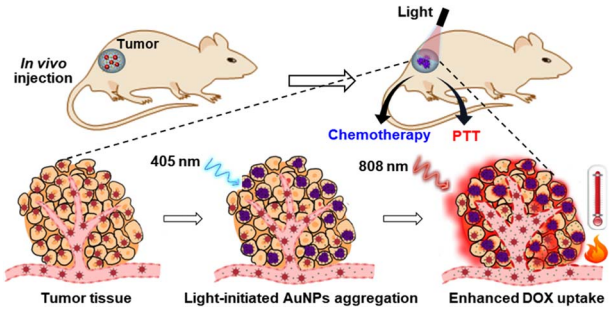


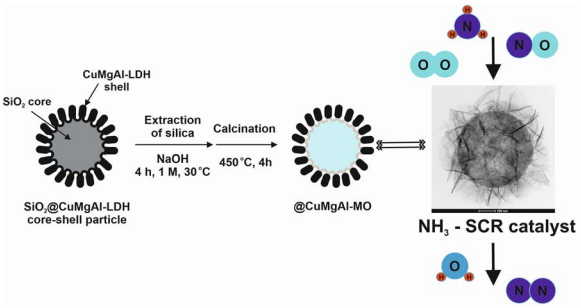
PAPERS

PAPERS









PAPERS

CORRECTIONS

3114

Correction: Enhanced detoxification of Cr^{6+} by *Shewanella oneidensis via* adsorption on spherical and flower-like manganese ferrite nanostructures

Diana S. Raie, Ioannis Tsonas, Melisa Canales, Stefanos Mourdikoudis, Konstantinos Simeonidis, Antonios Makridis, Dimitrios Karfaridis, Shanom Ali, Georgios Vourlias, Peter Wilson, Laurent Bozec, Lena Ciric and Nguyen Thi Kim Thanh*

3115

Correction: SARS-CoV-2 suppression depending on the pH of graphene oxide nanosheets

Md. Saidul Islam, Masahiro Fukuda, Md. Jakir Hossain, Nurun Nahar Rabin, Ryuta Tagawa, Mami Nagashima, Kenji Sadamasu, Kazuhisa Yoshimura, Yoshihiro Sekine, Terumasa Ikeda* and Shinya Hayami*