

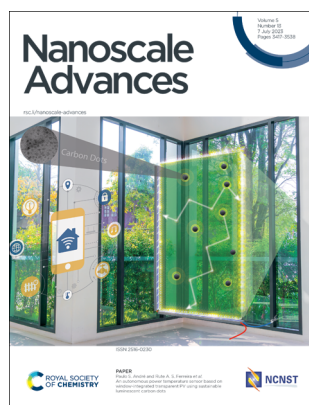
# Nanoscale Advances

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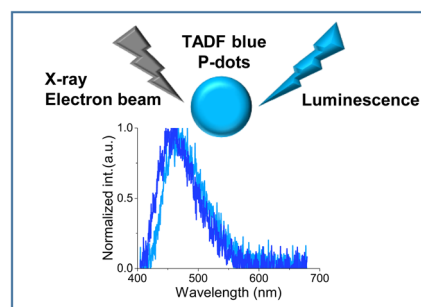
**Inside cover**  
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### Radioluminescence from polymer dots based on thermally activated delayed fluorescence

Daiki Asanuma, Hieu Thi Minh Nguyen, Zuoyue Liu, Sachiko Tojo, Hajime Shigemitsu, Minoru Yamaji, Kiyohiko Kawai, Tadashi Mori, Toshiyuki Kida, Guillem Pratx,\* Mamoru Fujitsuka\* and Yasuko Osakada\*

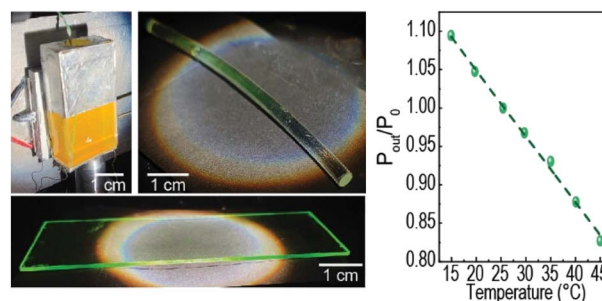


## PAPERS

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### An autonomous power temperature sensor based on window-integrated transparent PV using sustainable luminescent carbon dots

Sandra F. H. Correia,\* Lianshe Fu, Lilia M. S. Dias, Rui F. P. Pereira, V. de Zea Bermudez, Paulo S. André and Rute A. S. Ferreira\*



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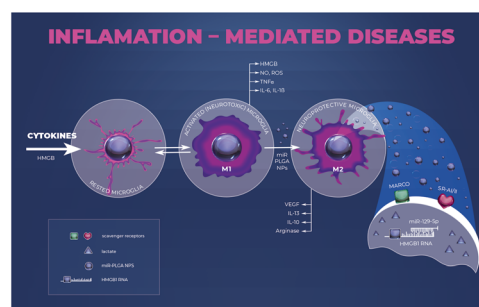
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### Optimization and characterization of miRNA-129-5p-encapsulated poly (lactic-co-glycolic acid) nanoparticles to reprogram activated microglia

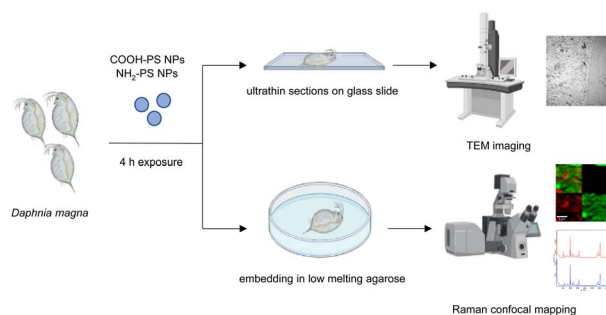
Irina Kalashnikova, Heather Cambell, Daniel Kolpek and Jonghyuck Park\*



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### Label-free detection of polystyrene nanoparticles in *Daphnia magna* using Raman confocal mapping

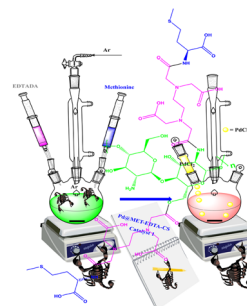
Jasreen Kaur, Egle Kelpsiene, Govind Gupta, Illia Dobryden, Tommy Cedervall and Bengt Fadeel\*



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### Supramolecular Pd@methioine-EDTA-chitosan nanocomposite: an effective and recyclable bio-based and eco-friendly catalyst for the green Heck cross-coupling reaction under mild conditions

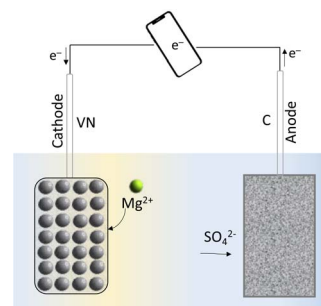
Mohammad Dohendou, Mohammad G. Dekamin\* and Danial Namaki



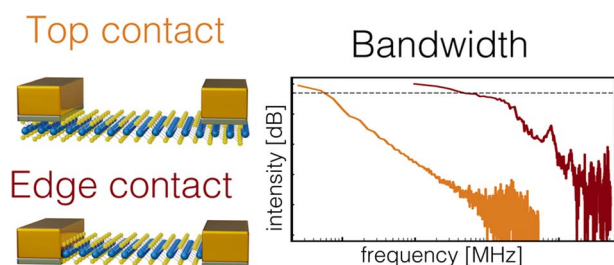
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### Superior cyclability of high surface area vanadium nitride in salt electrolytes

James Kasten, Cheng-Che Hsiao, Denis Johnson and Abdoulaye Djire\*



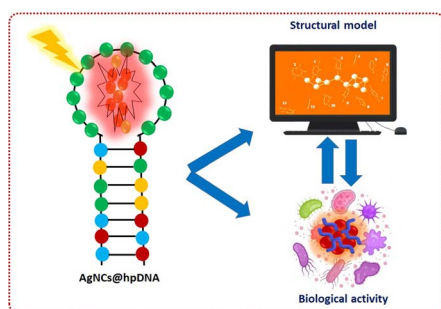
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### Edge contacts accelerate the response of MoS<sub>2</sub> photodetectors

Fabian Strauß, Christine Schedel and Marcus Scheele\*

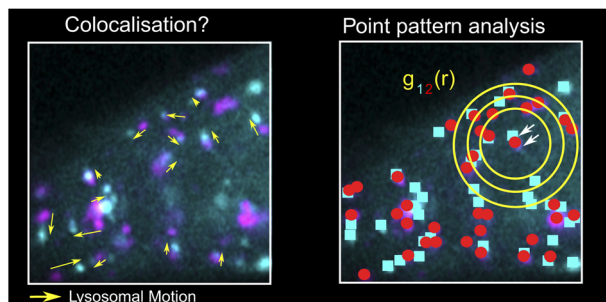
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### Optical, structural, and biological properties of silver nanoclusters formed within the loop of a C-12 hairpin sequence

Akhilesh Kumar Gupta, Nolan Marshall, Liam Yourston, Lewis Rolband, Damian Beasock, Leyla Danai, Elizabeth Skelly, Kirill A. Afonin and Alexey V. Krasnoslobodtsev\*

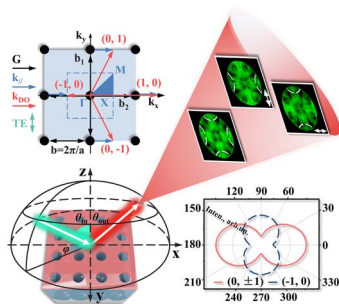
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### Identification of nanoparticles as vesicular cargo *via* Airy scanning fluorescence microscopy and spatial statistics

Christian Wimmenauer and Thomas Heinzel\*

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### Direction- and polarization-tunable spontaneous emission beneficial from diffraction orders of a square R6G-nanopore array

Shijia He, Yi Wang,\* Tianyu Wang, Dongda Wu, Junqiao La, Jiang Hu, Jiamin Xiao and Wenxin Wang\*



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## A tube-like Pd@coordination polymer with enhanced solar light harvesting for boosting photocatalytic H<sub>2</sub> production in a wide pH range and seawater

Jieling Li, Shihao Sun, Ningshuang Gao, Hua Li, Kun Liang,\* Jun Hai, Suisui He, Xijiao Mu\* and Baodui Wang\*

