

CONTENTS

Volume 28
October 2019

NANO TODAY

News and opinions

Gold-polymer conductors stretch to next level
C. Sealy 100769

Graphene takes steps toward precise DNA delivery
C. Sealy 100772

Nanostructured wood promises eco-friendly desalination
C. Sealy 100770

Crystallization goes its own way
C. Sealy 100771

Best practice in reporting corona studies: Minimum information about Nanomaterial Biocorona Experiments (MINBE)
A.J. Chetwynd, K.E. Wheeler and I. Lynch 100758

Nano-pesticides: A great challenge for biodiversity?
Y. Sun, J. Liang, L. Tang, H. Li, Y. Zhu, D. Jiang, B. Song, M. Chen and G. Zeng 100757

Reviews

State-of-the-art progress in the use of ternary metal oxides as photoelectrode materials for water splitting and organic synthesis
H. He, A. Liao, W. Guo, W. Luo, Y. Zhou and Z. Zou 100763

Atom/molecular nanoarchitectonics for devices and related applications
K. Ariga, M. Ito, T. Mori, S. Watanabe and J. Takeya 100762

On-chip micro/nano devices for energy conversion and storage
X. Pan, X. Hong, L. Xu, Y. Li, M. Yan and L. Mai 100764

Nanoscale systems for local drug delivery
T. Ji and D.S. Kohane 100765

Three decades of messenger RNA vaccine development
R. Verbeke, I. Lentacker, S. C. De Smedt and H. Dewitte 100766

Recent advances in synthesizing metal nano-cluster-based nanocomposites for application in sensing, imaging and catalysis
L. Shang, J. Xu and G.U. Nienhaus 100767

Facet-dependent and interfacial plane-related photocatalytic behaviors of semiconductor nanocrystals and heterostructures
M.H. Huang and M. Madasu 100768

Intrinsic chemistry and design principle of ultrasound-responsive nanomedicine
X. Cui, X. Han, L. Yu, B. Zhang and Y. Chen 100773

Noble metal-based 1D and 2D electrocatalytic nanomaterials: Recent progress, challenges and perspectives
Y. Li and S. Guo 100774

Cover Image:

“Silicon Pyramid after KOH etching” Image Credit: Viney Ghai, Indian Institute of Technology, Ropar, India

