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IN THIS ISSUE

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Cover
See Shunya Sakane, Hideki Tanaka *et al.*, pp. 3299–3305. Image reproduced by permission of Shunya Sakane and Hideki Tanaka from *Nanoscale Adv.*, 2024, 6, 3299. Image created by Takashi Tsujino.



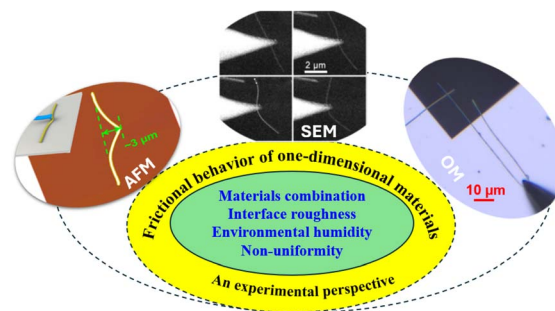
Inside cover
See Yanqi Yang and Mi Li, pp. 3306–3319. Image reproduced by permission of Mi Li from *Nanoscale Adv.*, 2024, 6, 3306.

REVIEW

3251

Frictional behavior of one-dimensional materials: an experimental perspective

Tursunay Yibibulla, Lizhen Hou,* James L. Mead, Han Huang, Sergej Fatikow and Shiliang Wang*

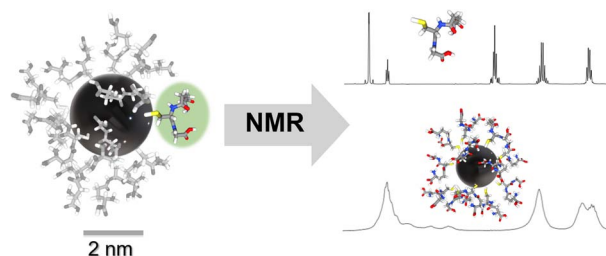


MINIREVIEW

3285

Possibilities and limitations of solution-state NMR spectroscopy to analyze the ligand shell of ultrasmall metal nanoparticles

Natalie Wolff, Christine Beuck, Torsten Schaller and Matthias Epple*



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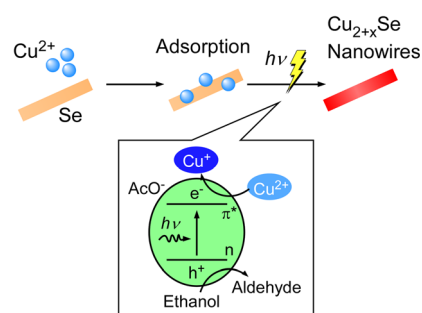
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Fundamental questions
Elemental answers

3299

Precise synthesis of copper selenide nanowires with tailored Cu vacancies through photo-induced reduction for thermoelectric applications

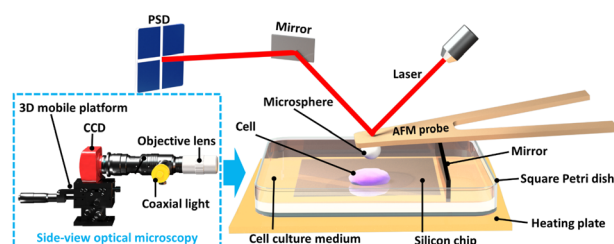
Shunya Sakane,* Tatsuki Miura, Kazuki Munakata, Yusuke Morikawa, Shunichiro Miwa, Riku Yamanaka, Toshiki Sugai, Akito Ayukawa, Haruhiko Udono and Hideki Tanaka*



3306

Side-view optical microscopy-assisted atomic force microscopy for thickness-dependent nanobiomechanics

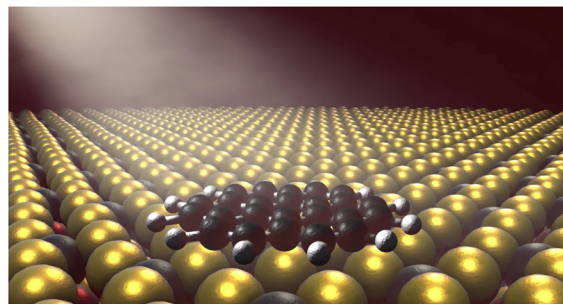
Yanqi Yang and Mi Li*



3320

Towards molecular controlled magnonics

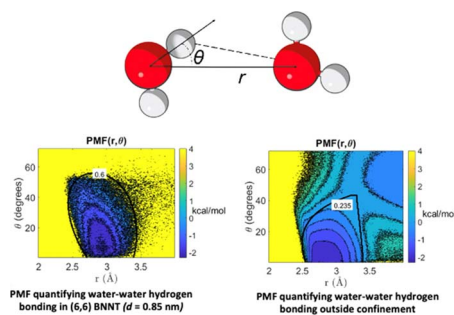
Alberto M. Ruiz, Gonzalo Rivero-Carracedo, Andrey Rybakov, Sourav Dey and José J. Baldovi*



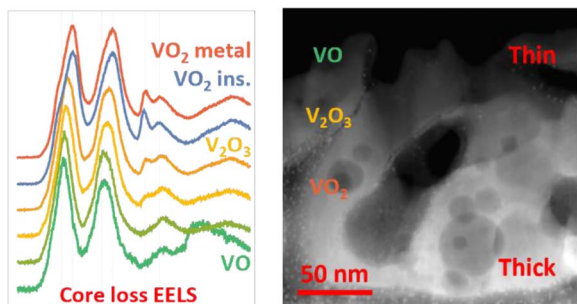
3329

Strength, number, and kinetics of hydrogen bonds for water confined inside boron nitride nanotubes

Bhargav Sai Chava and Siddhartha Das*



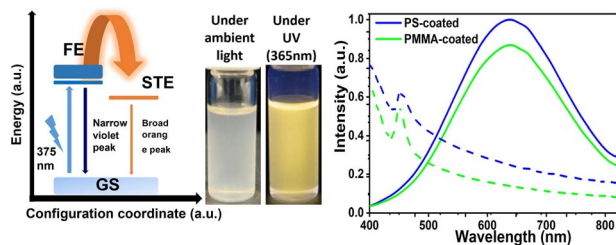
3338



Analytical electron microscopy analysis of insulating and metallic phases in nanostructured vanadium dioxide

Jan Krpenský, Michal Horák, Jiří Kabát, Jakub Planer, Peter Kepič, Vlastimil Křápek* and Andrea Konečná*

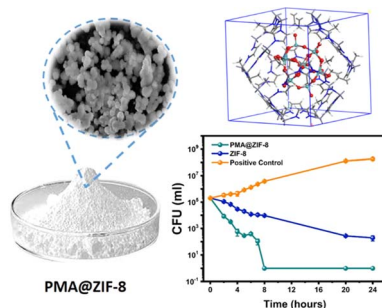
3347



Room temperature synthesis of nanocomposite thin films with embedded $\text{Cs}_2\text{AgIn}_{0.9}\text{Bi}_{0.1}\text{Cl}_6$ lead-free double perovskite nanocrystals with long-term water stability, wide range pH tolerance, and high quantum yield

Stevanson Bayer, Jason Ho Yin Yu and Stefan Nagl*

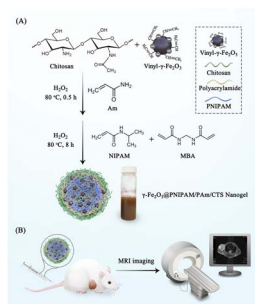
3355



Zeolitic imidazolate framework-8 encapsulated with Mo-based polyoxometalates as surfaces with antibacterial activity against *Escherichia coli*

Mariam M. Abdelkhalak, Aya M. Mohamed, Rehab Z. Abdallah, Ghada E. Khedr, Rania Siam and Nageh K. Allam*

3367



Enhancing MRI through high loading of superparamagnetic nanogels with high sensitivity to the tumor environment

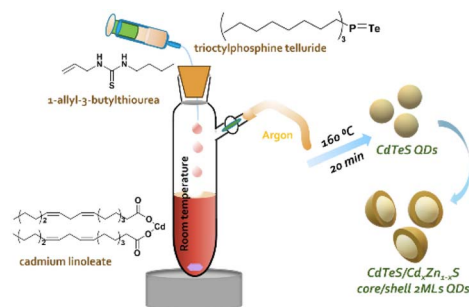
Jinfeng Liao, Liangyu Zhou, Yongzhi Wu, Zhiyong Qian and Pei Li*



3377

Disubstituted thiourea as a suitable sulfur source in the gram-scale synthesis of yellow- and red-emitting CdTeS/Cd_xZn_{1-x}S core/shell quantum dots

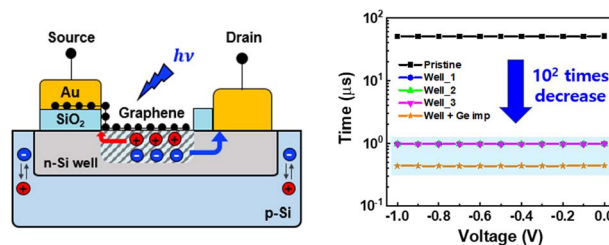
Liudmila Loghina,* Jakub Houdek, Stanislav Slang, Bozena Frumarova, Miroslav Cieslar and Miroslav Vlcek



3391

Demonstration of a low power and high-speed graphene/silicon heterojunction near-infrared photodetector

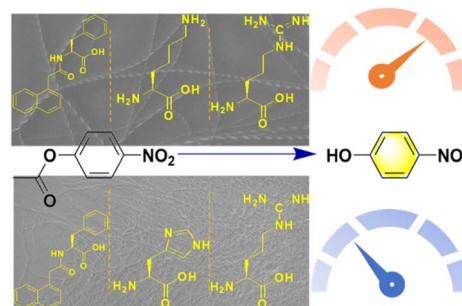
Min Gyu Kwon, Cihyun Kim, Seung-Mo Kim, Tae Jin Yoo, Yongsu Lee, Hyeon Jun Hwang, Sanghan Lee* and Byoung Hun Lee*



3399

1-Naphthylacetic acid appended amino acids-based hydrogels: probing of the supramolecular catalysis of ester hydrolysis reaction

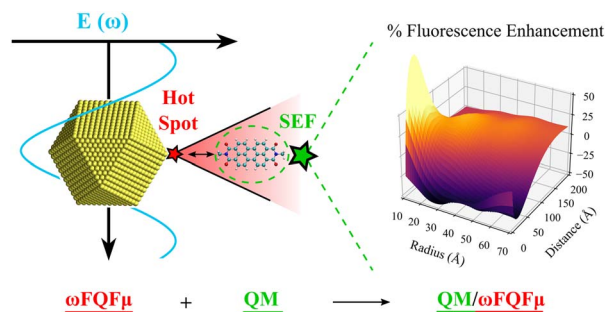
Ruchika Bassan, Biplab Mondal, Mayank Varshney and Subhasish Roy*



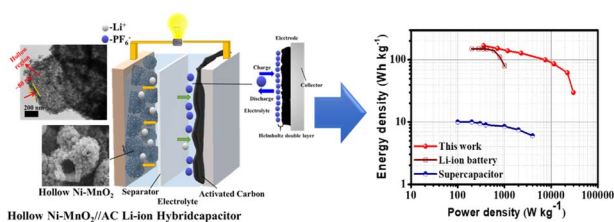
3410

Multiscale modeling of surface enhanced fluorescence

Pablo Grobas Illobre, Piero Lafiosca, Teresa Guidone, Francesco Mazza, Tommaso Giovannini* and Chiara Cappelli*



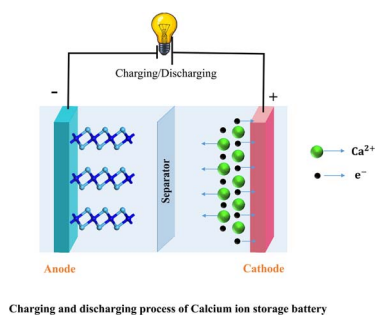
3426



Hierarchical hollow porous structures of nickel-doped λ - MnO_2 anodes for Li-ion energy storage systems

Venugopal Nulu, Arunakumari Nulu and Keun Yong Sohn*

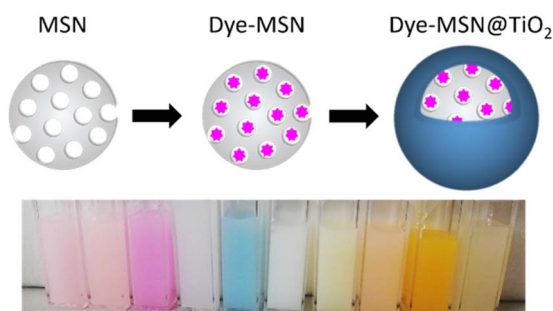
3441



Recent advances in Zr and Hf-based MXenes and their hetero-structure as novel anode materials for Ca-ion batteries: theoretical insights from DFT approach

Tanvir Ahmed, Afiya Akter Piya and Siraj Ud Daula Shamim*

3450



Titania-mediated stabilization of fluorescent dye encapsulation in mesoporous silica nanoparticles

Laura Spitzmüller,* Jonathan Berson, Fabian Nitschke, Thomas Kohl and Thomas Schimmel

