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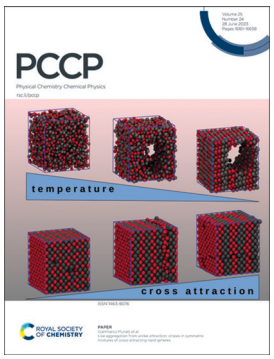

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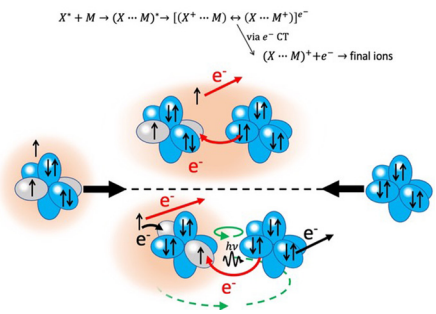
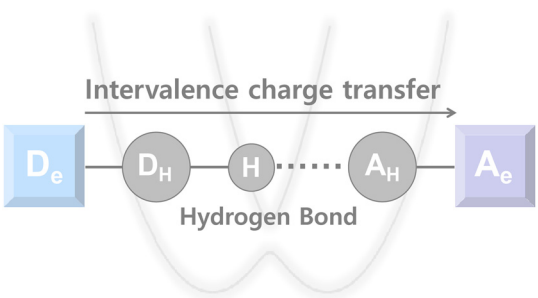
REVIEW



PERSPECTIVE



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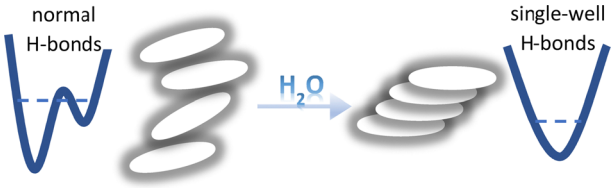

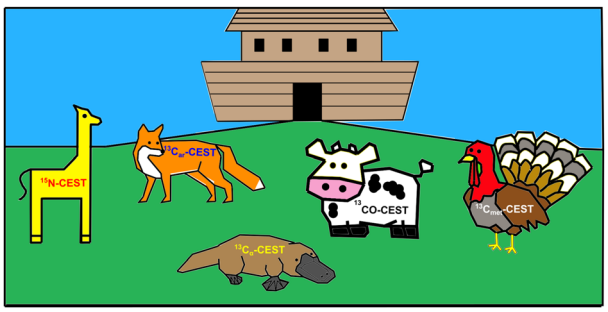

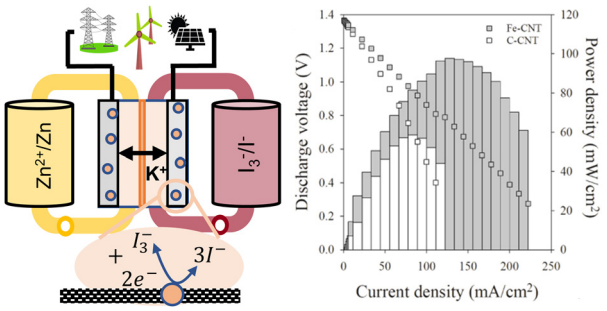

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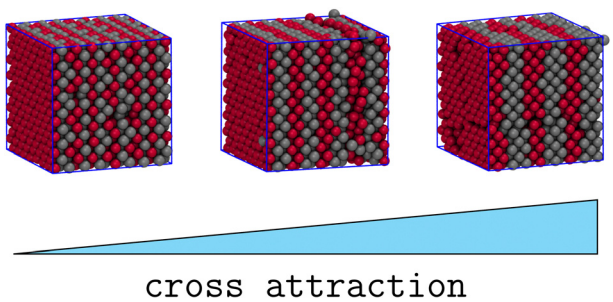

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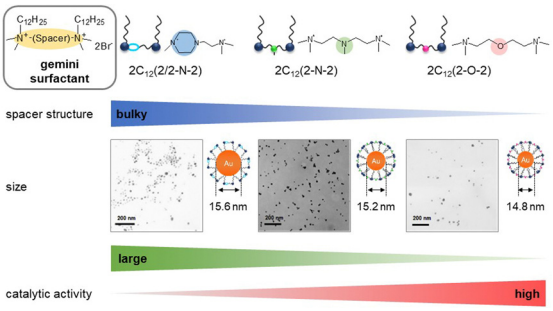
16288

Catalytic activity of gold nanoparticles protected by quaternary ammonium salt-based gemini surfactants with different spacer structures

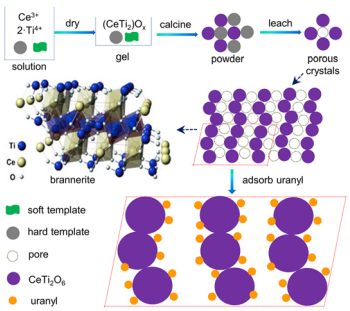
Tsukasa Morita, Shiho Yada and Tomokazu Yoshimura*



16294

Synthesis of hierarchical mesoporous cerium titanate brannerite and uranyl adsorption properties at pH 3.8

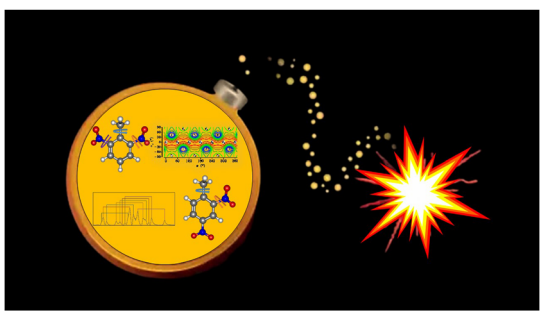
Linggen Kong,* Tao Wei, Inna Karatchevtseva and Nicholas Scales



16307

Microwave spectra of dinitrotoluene isomers: a new step towards the detection of explosive vapors

Mhamad Chrayteh,* Pascal Dréan, Manuel Goubet, Laurent H. Coudert, Anthony Roucou and Arnaud Cuisset*



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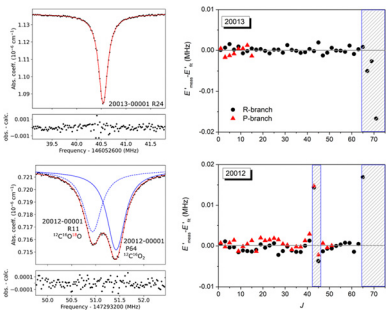
$^{12}CO_2$ transition frequencies with kHz-accuracy by saturation spectroscopy in the 1.99–2.09 μm region

H. Fleurbaey, P. Čermák, A. Campargue, S. Kassi, D. Romanini, O. Votava and D. Mondelain*



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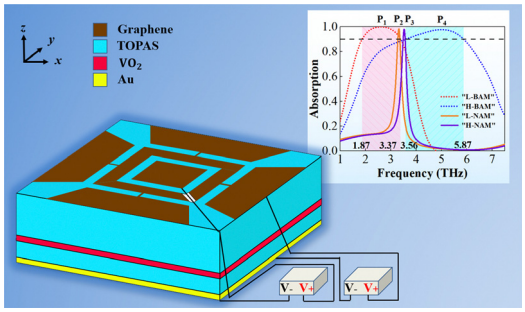

An electrical/thermal dual-controlled quad-functional terahertz metasurface absorber

Zhipeng Ding, Wei Su,* Lipengan Ye, Hong Wu and Hongbing Yao*

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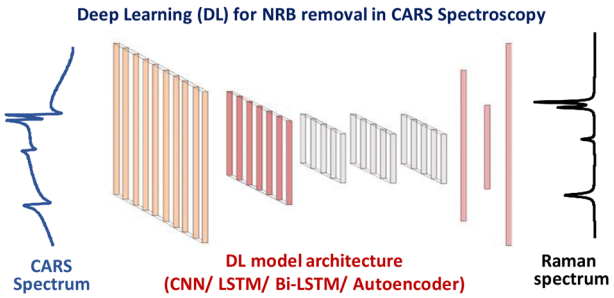

Evaluating different deep learning models for efficient extraction of Raman signals from CARS spectra

Rajendhar Junjuri,* Ali Saghi, Lasse Lensu and Erik M. Vartiainen

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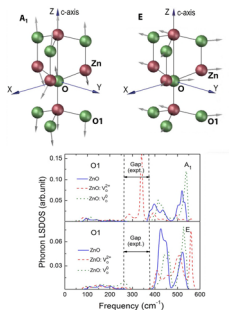

Structural and vibrational properties of wurtzite ZnO with oxygen-deficient defects: *ab initio* and potential-based calculations

Alexey N. Kislov* and Anatoly F. Zatsepin

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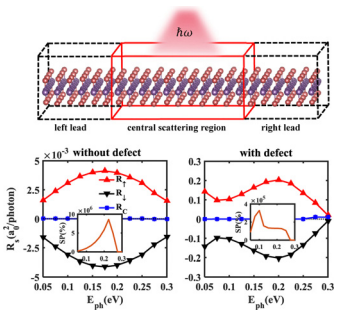

The photogalvanic effect induced by quantum spin Hall edge states from first-principles calculations

Yaqing Yang, Liwen Zhang, Xiaohong Zheng,* Jun Chen, Liantuan Xiao, Suotang Jia and Lei Zhang*

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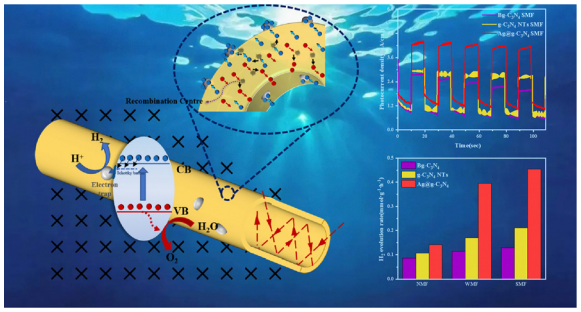

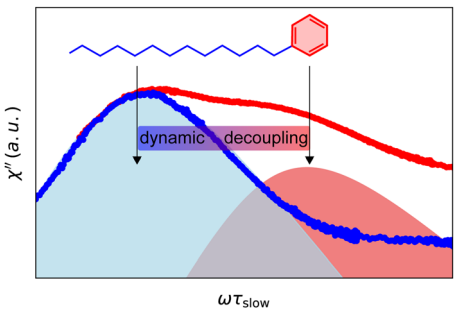

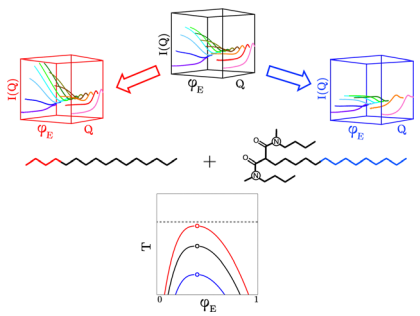

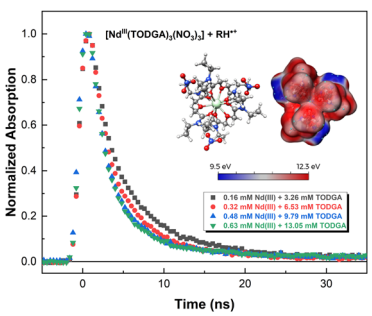

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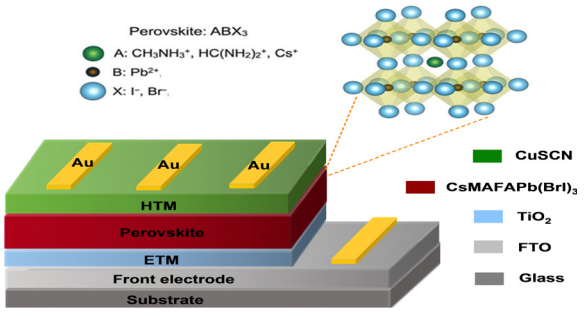

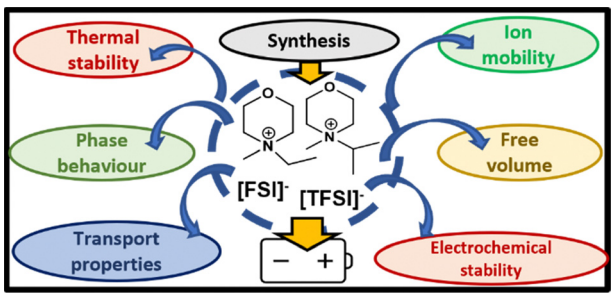

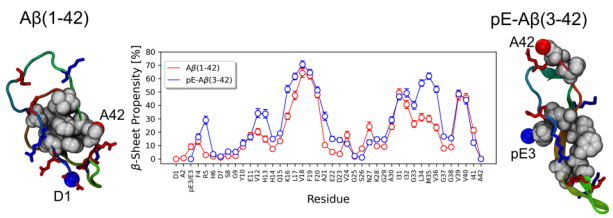

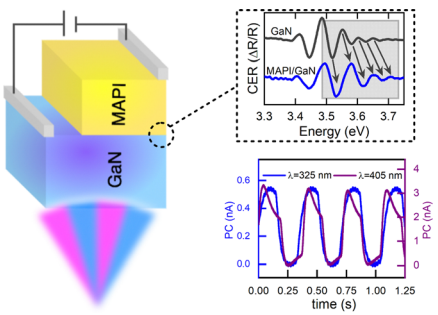

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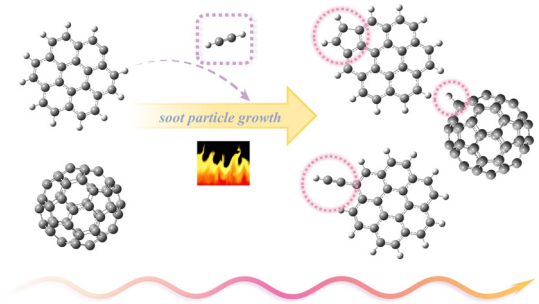

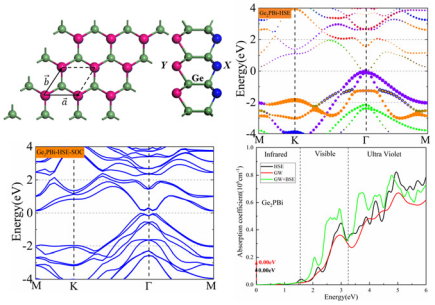

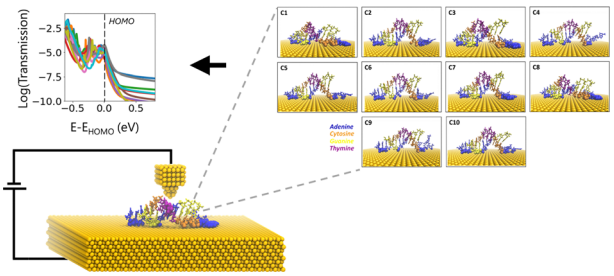

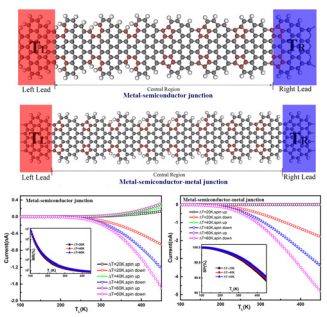

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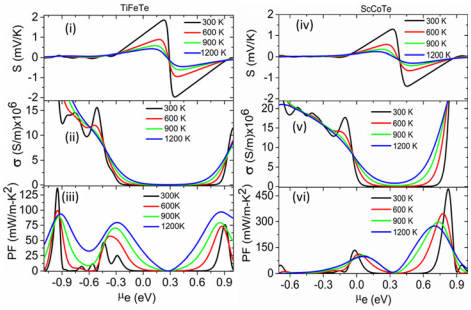

Investigation of the electronic structure, mechanical, and thermoelectric properties of novel semiconductor compounds: XYTe (X = Ti/Sc; Y = Fe/Co)

Aquil Ahmad and Chia-Jyi Liu*

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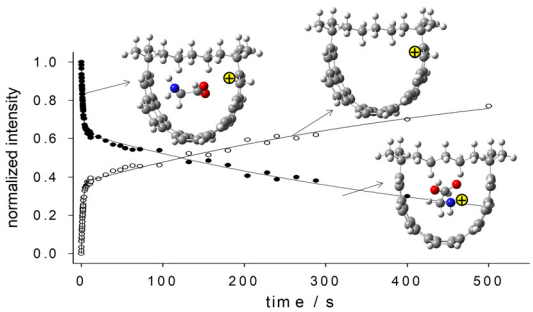

Glycine in a basket: protonated complexes of 1,1,*n*,*n*-tetramethyl[*n*](2,11)teropyrenophane (*n* = 7, 8, 9) with glycine in the gas-phase

Yanyang Chen, Parisa Ghods Ghasemabadi, Graham J. Bodwell, Maria Demireva and Travis D. Fridgen*

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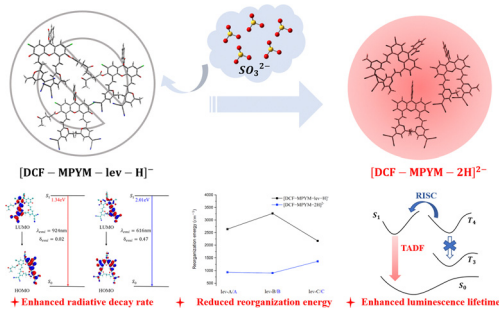

Exploring the luminescence properties and sensing mechanism of a turn-on TADF probe for sulfite

Xiaofei Wang, Qun Zhang, Zhimin Wu, Xiaofang Li, Kai Zhang, Yuzhi Song, Jianzhong Fan, Lili Lin,* Chuan-Kui Wang* and Zhongjie Wang*

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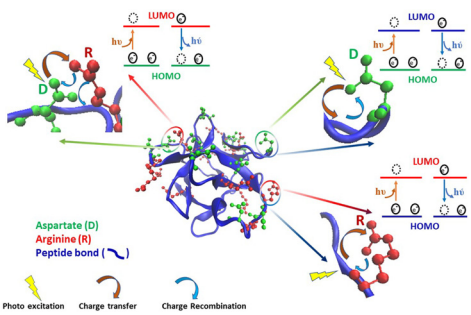

Protein charge transfer spectra in a monomeric protein with no lysine

Shah Ekramul Alom and Rajaram Swaminathan*

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Thermal dehydration of D-glucose monohydrate in solid and liquid states

Kazuki Kato, Masami Hara and Nobuyoshi Koga*