

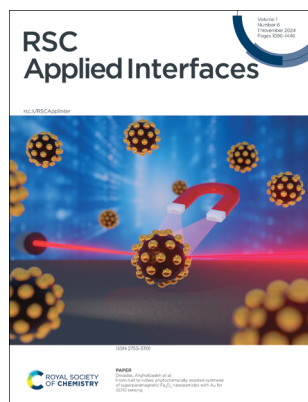
RSC Applied Interfaces

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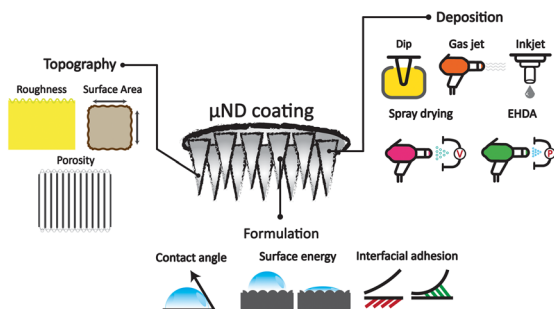
Cover

See Devadas, Aligholizadeh *et al.* pp. 1129–1141.

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REVIEW

1108

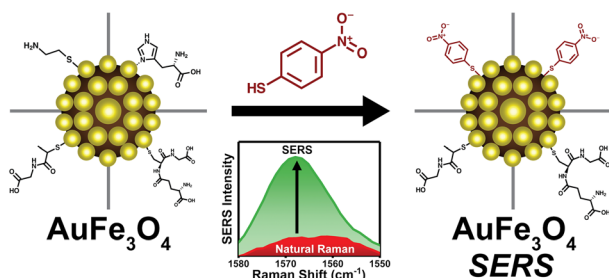


Topographical characteristics of 3D printed polymeric microneedle surface and its impact on coating formulation attributes

Masood Ali, Yanling Yang, Ayyah Abdoh and Yousuf Mohammed*

PAPERS

1129



From rust to riches: phytochemically assisted synthesis of superparamagnetic Fe₃O₄ nanoparticles with Au for SERS sensing

Dariush Aligholizadeh, Landon Bechdel, Mansoor Johnson, Vera Smolyaninova and Mary Sajini Devadas*



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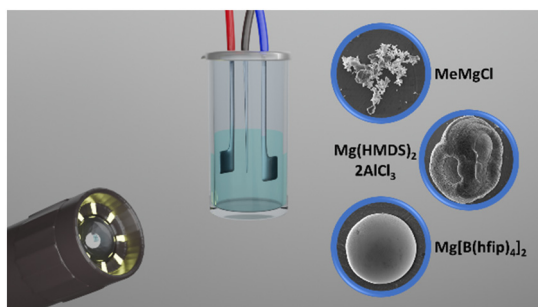
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Fundamental questions
Elemental answers



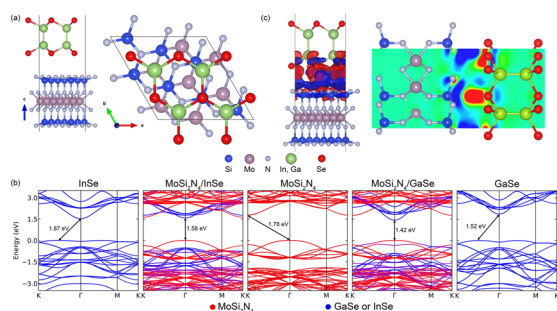
1142



Electrolyte-dependent deposition morphology on magnesium metal utilizing MeMgCl, Mg[B(hfip)₄]₂ and Mg(HMDS)₂·2AlCl₃ electrolytes

Leon Leuppert, Adam Reupert,* Thomas Diemant, Tom Philipp, Christine Kranz, Zhenyou Li and Maximilian Fichtner*

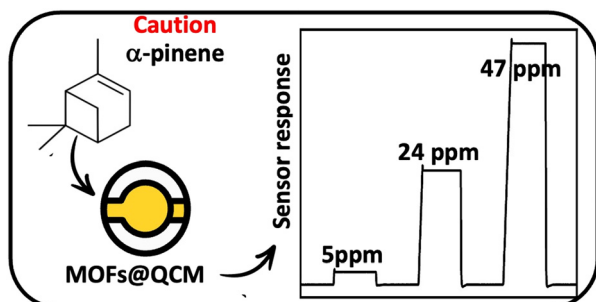
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Electric field and strain tunable band gap and band alignments of MoSi₂N₄/MSe (M = In, Ga) van der Waals heterostructures

Jin Quan Ng, Qingyun Wu, Yee Sin Ang* and L. K. Ang*

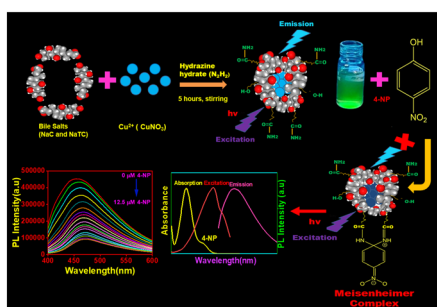
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MOF-based sensors for the detection of airborne α -pinene

P. Pires Conti, P. Iacomì, P. F. Brântuas, M. Nicolas, R. Anton, S. Moularat, S. Dasgupta, N. Steunou, G. Maurin and S. Devautour-Vinot*

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Bile-salt templated green fluorescent copper nanoclusters: detection of 4-nitrophenol in nanomolar range

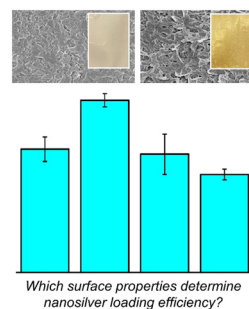
Shivangi, Mandeep Kaur, Neeraj Sohal, Mallika Phull and Banibrata Maity*



1186

Surface characteristics of thin film composite polyamide membranes dictate silver nanoparticle loading efficacy

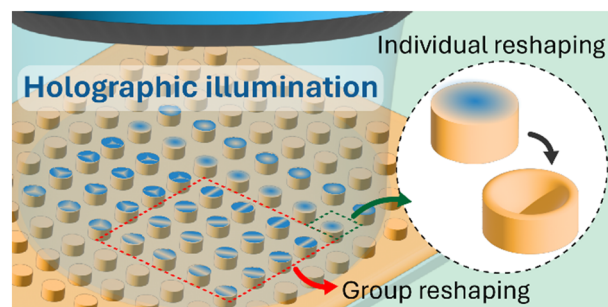
Afsana Munni, Mohammed A. Bashammakh, Marion Bellier, Ali Ansari, Mohamed E. A. Ali, H. Enis Karahan, Rafiqul Islam, Treavor H. Boyer and François Perreault*



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Molding three-dimensional azopolymer microstructures with holographically structured light

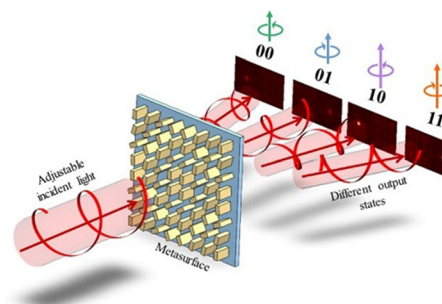
I Komang Januariyasa, Francesco Reda, Fabio Borbone, Marcella Salvatore and Stefano L. Oscurato*



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A spin and intensity multiplexed encryption metasurface

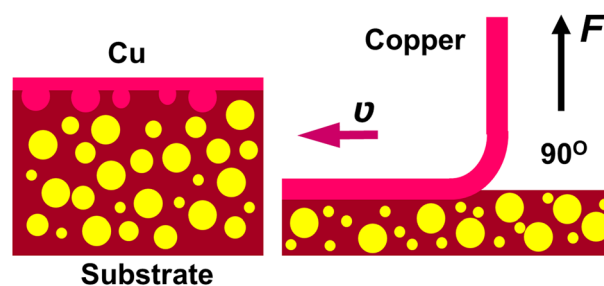
Xuefeng Wang, Pengfei Li, Xiaoyu Zhao, Dieter Weller, Sufeng Quan, Mengxuan Wu, Ruibin Liu and Shuai Guo*



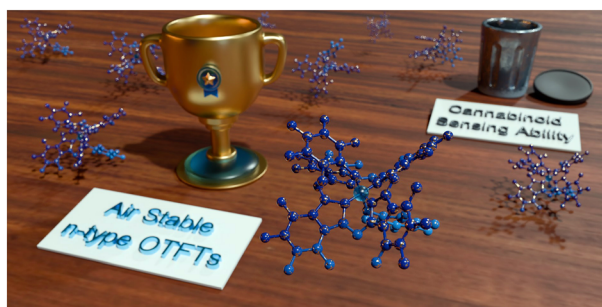
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Heterointerfacial adhesion failure mechanism of ultrahigh filler loading containing epoxy composite films for chip substrates

Shanjun Ding,* Xiaomeng Wu, Xu Zhang, Mengqi Gui, Zhidan Fang* and Qidong Wang*



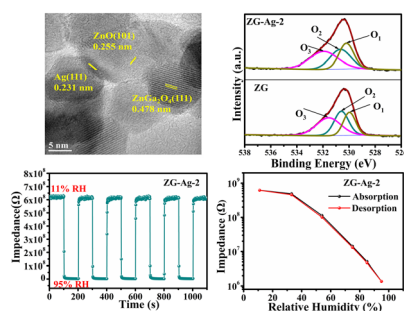
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$(F_5PhO)_2-F_{16}-SiPc$ as an air-stable, high-performance n-type semiconductor with poor cannabinoid sensing capabilities

Halynne R. Lamontagne, Mélanie Cyr, Mário C. Vebber, Sufal Swaraj, Cory S. Harris, Jaclyn L. Brusso, Adam J. Shuhendler and Benoît H. Lessard*

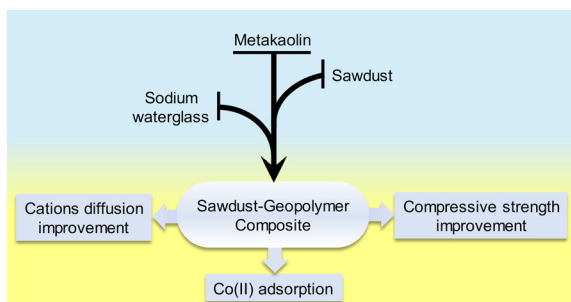
1233



High-performance humidity sensor based on Ag-doped $ZnGa_2O_4/ZnO$ composite nanofibers

Chunhua Sun, Wenjing Li, Ze Lv* and Ying Guo*

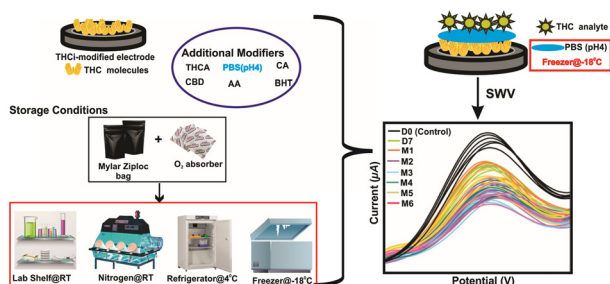
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Effect of NaOH-treated sawdust incorporated in geopolymer matrix on compressive strength and adsorption property

Gaëlle Ngnie, Rock Ambela Atangana, Grace Ingrid Tomou-Mbahim, Lionel Magellan Sambang, Gustave Kenne Dedzo,* Hervé Kouamo Tchakoute,* Claus Henning Rüscher and Emmanuel Ngameni

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Tetrahydrocannabinol (THC)-modified screen-printed carbon electrodes (SPCEs): insights into stability

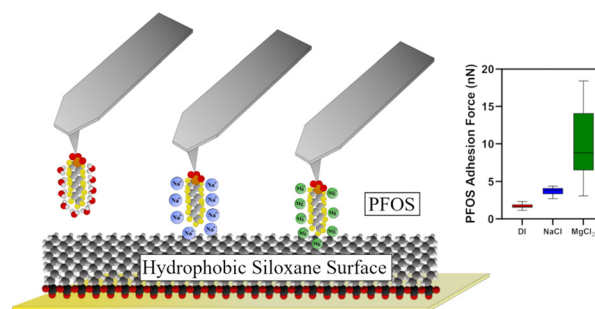
Rehmat Grewal, Greter A. Ortega, Herlys Viltres, Seshasai Srinivasan* and Amin Reza Rajabzadeh*



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Investigation into the adhesion properties of PFAS on model surfaces

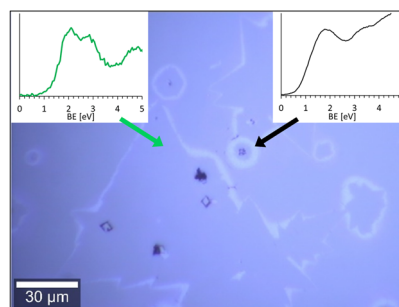
Jack Welchert, McKenna Dunmyer, Lynn Carroll, Irbis Martinez, Trisha J. Lane, Daniel A. Bellido-Aguilar, Suchol Savagatrup and Vasiliki Karanikola*



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Electronic structure of thin MoS₂ films

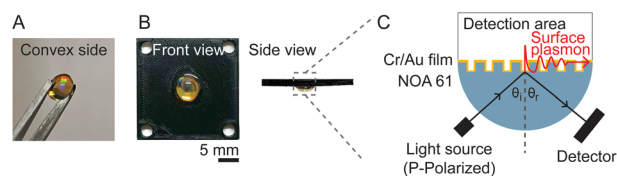
Benjamin A. Chambers, Christopher T. Gibson and Gunther G. Andersson*



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Polymeric grating prism-based dual-mode miniature surface plasmon resonance sensor chip

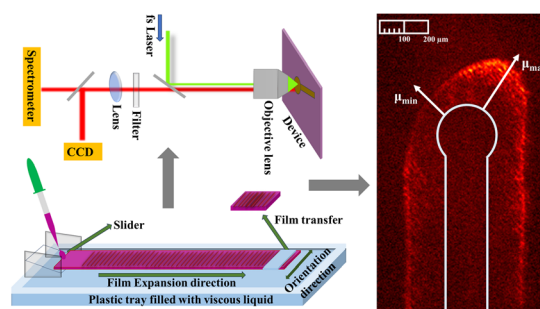
Wisansaya Jaikeandee, Supeera Nootchanat, Chutiparn Lertvachirapaiboon, Sanong Ekgasit, Kazunari Shinbo, Keizo Kato and Akira Baba*



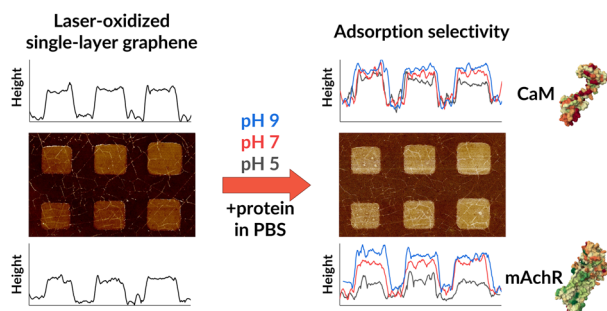
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Anisotropic charge transport study of highly oriented P4T2F-HD thin film fabricated at air-liquid interface through second harmonic generation (SHG) analysis

Radhe Shyam, Takaaki Manaka* and Rajiv Prakash*



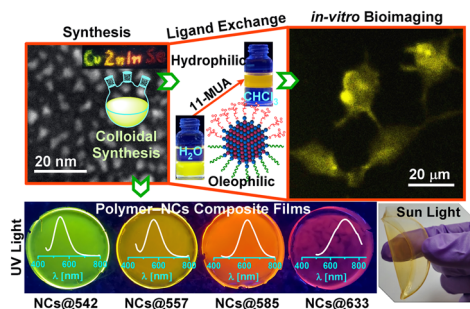
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Non-covalent adsorption of neurotransmission-relevant proteins on locally laser-oxidized and pristine graphene

Aku Lampinen, Johanna Schirmer, Aleksei Emelianov, Andreas Johansson and Mika Pettersson*

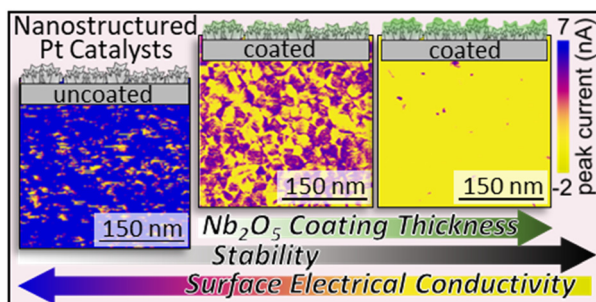
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Colloidal synthesis of emission-tunable Cu-doped Zn-In-Se/ZnSe core/shell nanocrystals for lighting and bioimaging applications

Joicy Selvaraj, Arun Mahesh, Arunkumar Dhayalan, Vaseeharan Baskaralingam, Saravanan Rajendran, Miguel Ángel Gracia Pinilla and Thangadurai Paramasivam*

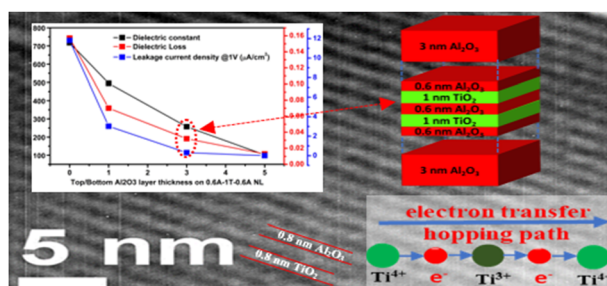
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Niobium oxide coatings on nanostructured platinum electrocatalysts: benefits and limitations

Annabelle M. K. Hadley, Sakshi Gautam and Byron D. Gates*

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Engineering Maxwell-Wagner relaxation and interface carrier confinement in Al₂O₃/TiO₂ subnanometric laminates for high-density energy storage applications

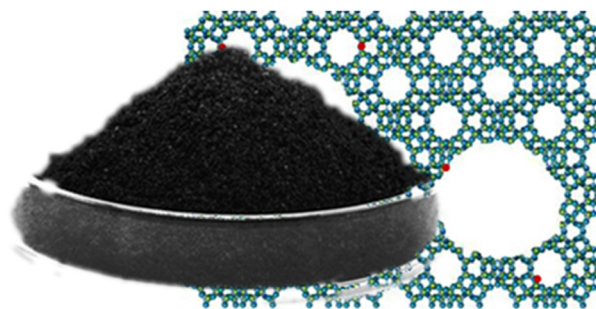
Partha Sarathi Padhi,* Sanjay K. Rai, R. S. Ajimsha and Pankaj Misra*



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Exploring the influence of mesoporosity in hard carbon-templated hierarchical SAPO-5 for ethanol dehydration

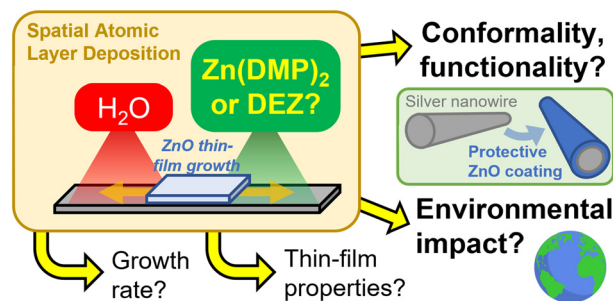
Matthew E. Potter,* Evangeline B. McShane, Nienke L. Visser, Johannes D. Meeldijk, Lisa J. Allen, Stephen M. King, Marina Carravetta, Petra E. de Jongh, Bart D. Vandegehuchte and Robert Raja



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Assessing the potential of non-pyrophoric Zn(DMP)₂ for the fast deposition of ZnO functional coatings by spatial atomic layer deposition

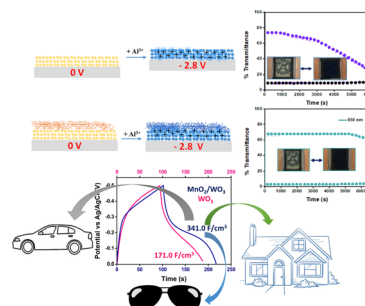
Liam Johnston, Jorit Obenluneschloß, Muhammad Farooq Khan Niazi, Matthieu Weber, Clément Lausecker, Laetitia Rapenne, Hervé Roussel, Camilo Sanchez-Velazquez, Daniel Bellet, Anjana Devi and David Muñoz-Rojas*



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Electrochromic properties of MnO₂/WO₃ bilayered electrodes for enhanced charge storage and superior stability

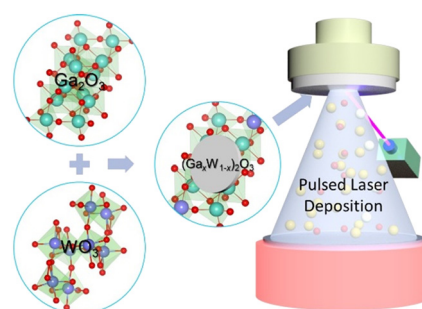
Ranjana Venugopal, Anjitha Dinakaran, Meenu C. Nair, Arathy C. Balachandran, Nayan Dev Madhavan and Biswapriya Deb*



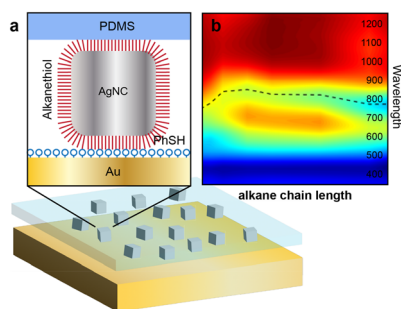
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Structure, surface/interface chemistry and optical properties of W-incorporated β -Ga₂O₃ films made by pulsed laser deposition

Francelia Sanchez, Debabrata Das, Nathan Episcopo, Felicia S. Manciu, Susheng Tan, Vaithiyalingam Shutthanandan and C. V. Ramana*



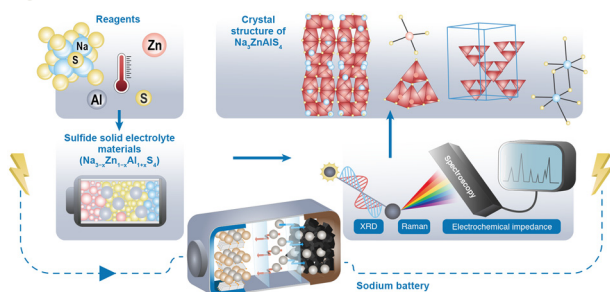
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Probing Raman enhancements for a colloidal metasurface with optical gap distances in the quantum regime

Yuan Zeng, Yu Xie, Andrea L. Rodarte, Tyler J. Dill and Andrea R. Tao*

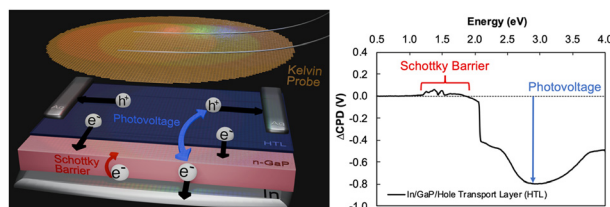
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Preparation and characterization of new solid electrolytes $\text{Na}_{3-x}\text{Zn}_{1-x}\text{Al}_{1+x}\text{S}_4$

Tomoya Otono, Hamdi Ben Yahia, Chie Hotehama, Kota Motohashi, Atsushi Sakuda* and Akitoshi Hayashi*

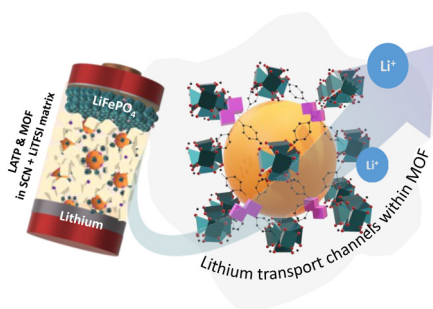
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Surface photovoltage predicts open circuit voltage in GaP/PEDOT:PSS and GaP/CuSCN heterojunction solar cells

Anna C. Kundmann,* Kathleen Becker and Frank E. Osterloh*

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Metal-organic frameworks as conductivity enhancers for all-solid-state lithium batteries

Shruti Suriyakumar, Rohit M. Manoj, Sreelakshmy K. Jayaprakash, Sreelakshmi Anil Kumar, Keerthy P. Sudhakaran, Vinesh Vijayan and Manikoth M. Shaijumon*



CORRECTION

1443

Correction: Metal–organic frameworks as conductivity enhancers for all-solid-state lithium batteries

Shruti Suriyakumar, Rohit M. Manoj, Sreelakshmy K. Jayaprakash, Sreelakshmi Anil Kumar, Keerthy P. Sudhakaran, Vinesh Vijayan and Manikoth M. Shaijumon*

