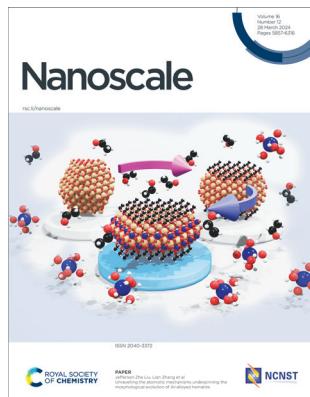


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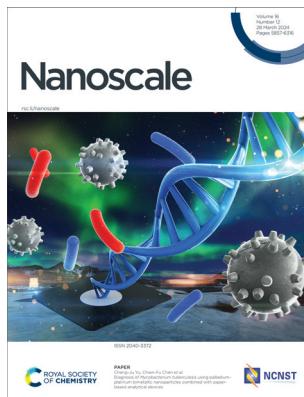
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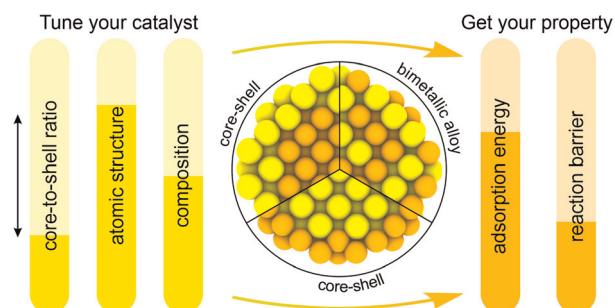
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Structure-driven tuning of catalytic properties of core–shell nanostructures

Ilya V. Chepkasov,* Aleksandra D. Radina and Alexander G. Kvashnin

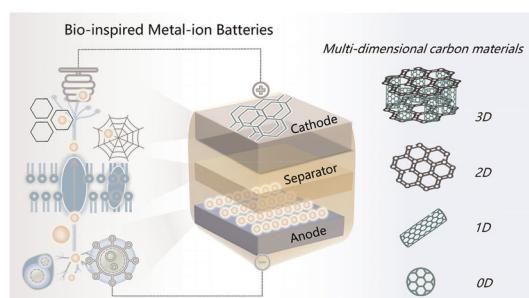


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Bio-inspired carbon electrodes for metal-ion batteries

Yihan Yang, Jiang Zhou, Apparao M. Rao* and Bingan Lu*





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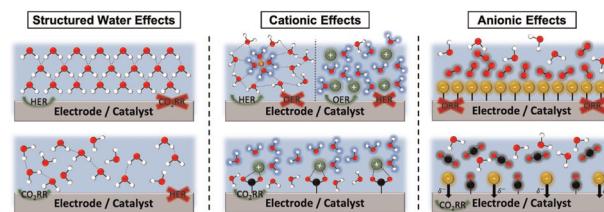


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Recent advances in the role of interfacial liquids in electrochemical reactions

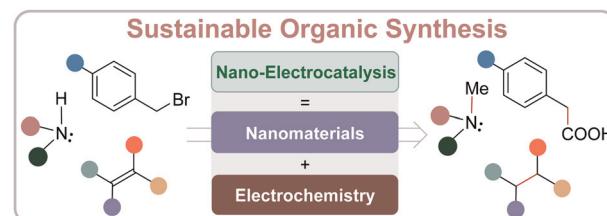
Rani Baidoun, Gexu Liu and Dohyung Kim*



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Nanostructured electrocatalysts for organic synthetic transformations

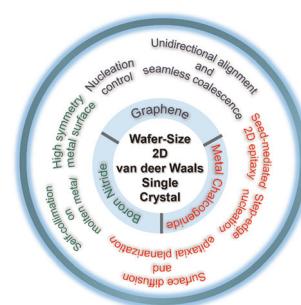
Francesco Mancuso, Paolo Fornasiero, Maurizio Prato, Michele Melchionna,* Federico Franco* and Giacomo Filippini*



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Wafer scale growth of single crystal two-dimensional van der Waals materials

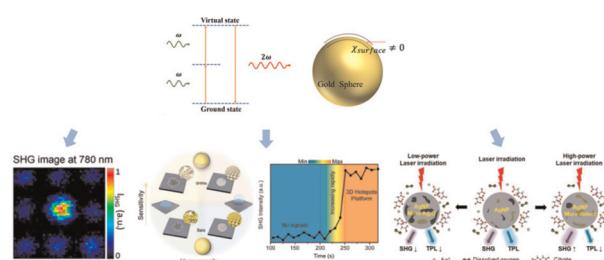
Chetna Gautam, Baishali Thakurta, Monalisa Pal, Anup Kumar Ghosh* and Anupam Giri*



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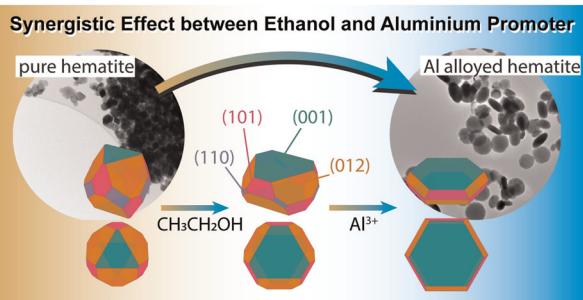
Plasmon-enhanced second harmonic generation of metal nanostructures

Cong-Cong Zhang, Jia-Yi Zhang, Jing-Ru Feng, Si-Ting Liu, Si-Jing Ding,* Liang Ma* and Qu-Quan Wang*



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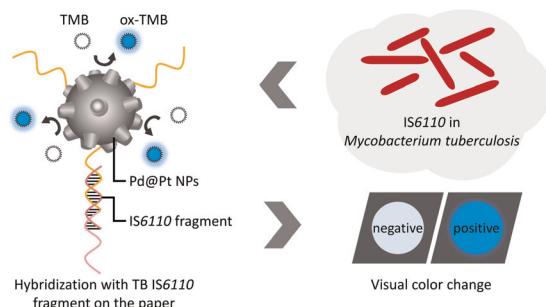
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Unravelling the atomistic mechanisms underpinning the morphological evolution of Al-alloyed hematite

Jinxing Gu, Sasha Yang, Jefferson Zhe Liu* and Lian Zhang*

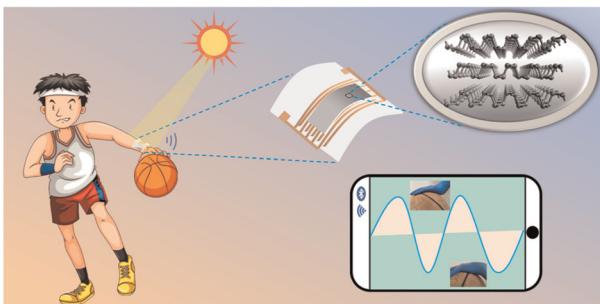
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Diagnosis of *Mycobacterium tuberculosis* using palladium–platinum bimetallic nanoparticles combined with paper-based analytical devices

Cheng-Yang Tung, Tsung-Ting Tsai, Ping-Yeh Chiu, Roman Viter, Arūnas Ramanavičius, Cheng-Ju Yu* and Chien-Fu Chen*

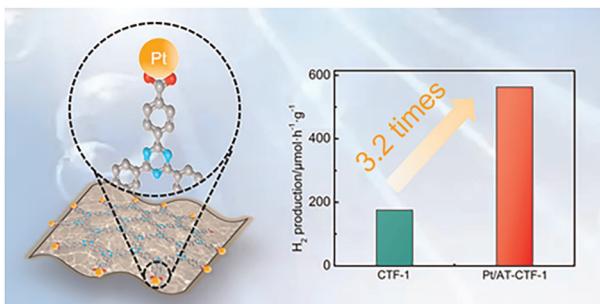
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Multifunctional black phosphorus pressure sensors with bending angle monitoring and direction recognition characteristics

Jiangtao Chen,* Guobin Ma, Xinyi Wang, Tiancheng Song, Yirun Zhu, Shuangju Jia, Xuqiang Zhang, Yun Zhao, Jianbiao Chen, Bingjun Yang and Yan Li

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Selective anchoring of Pt NPs on covalent triazine-based frameworks via *in situ* derived bridging ligands for boosting photocatalytic hydrogen evolution

Ling-Ling Zheng, Xiang Li, Dengke Wang, Ying Chen, Qian Fu, Dai-She Wu, Xiao-Zhen Liu* and Jian-Ping Zou*

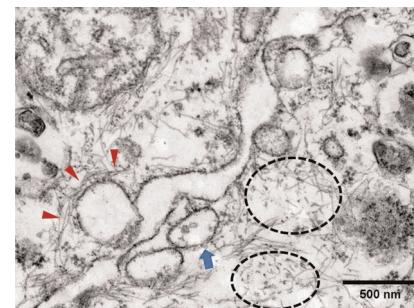


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Release of extracellular vesicles triggered by low-intensity pulsed ultrasound: immediate and delayed reactions

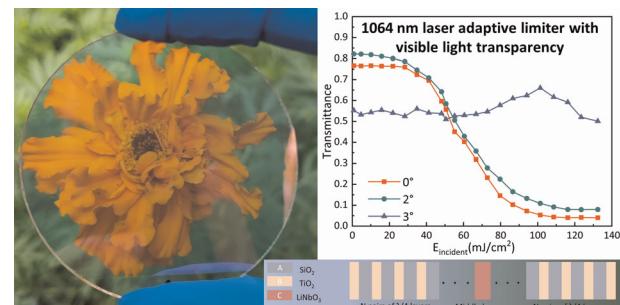
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A 1064 nm laser adaptive limiter with visible light transparency based on one dimensional photonic crystals of LiNbO₃ defects

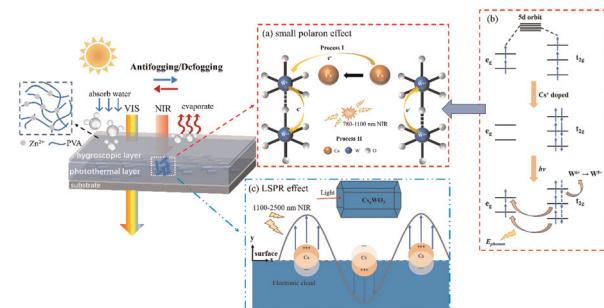
Guichuan Xu, Zhengang Lu,* Jing Yuan and Jiubin Tan



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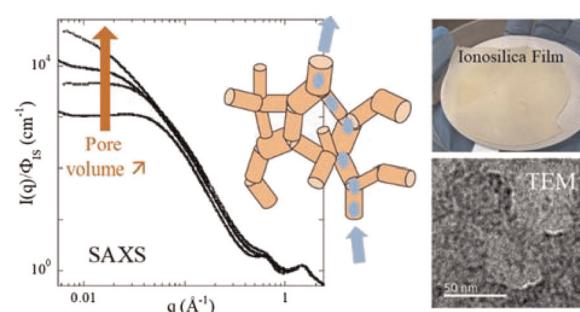
Jinyue Ma, Xiuxian Gu and Junhui He*



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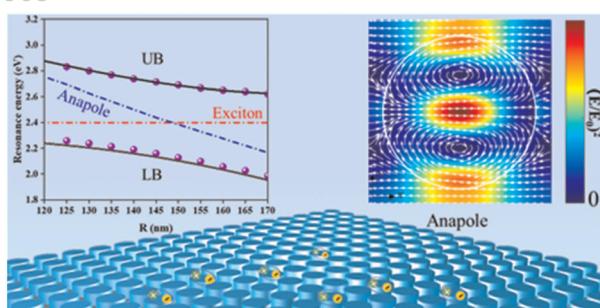
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Shilpa Sharma, Julian Oberdisse,* Johan G. Alauzun, Philippe Dieudonné-George, Thomas Bizien, Cansu Akkaya, Peter Hesemann and Anne-Caroline Genix*



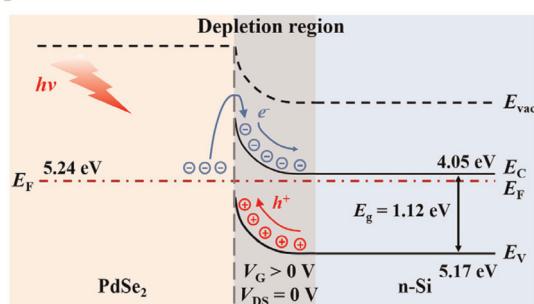
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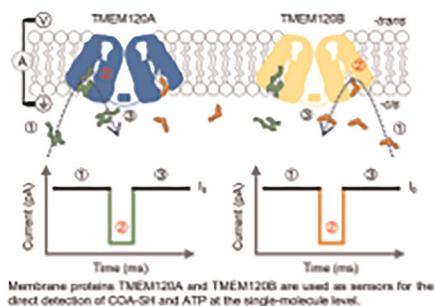
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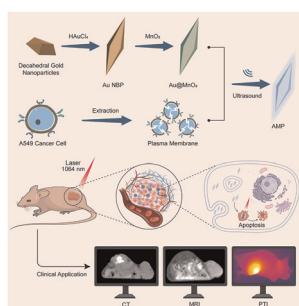
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Meng Zhang, Yuxuan Zhang, Lifeng Hang, Tao Zhang, Chuangcai Luo, Wuming Li, Yiqiang Sun, Hua Wen, Yiyu Chen, Guihua Jiang* and Xiaofen Ma*

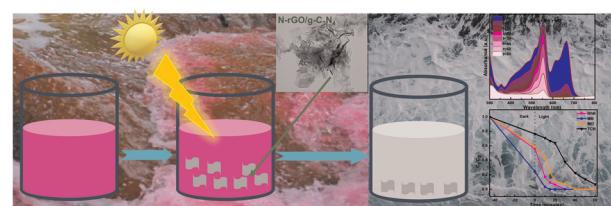


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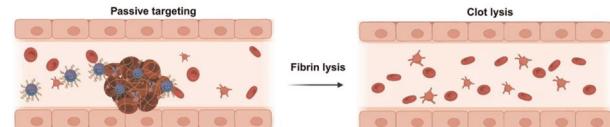
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Long-circulating nanoparticles as passive targeting nanocarriers for the treatment of thrombosis

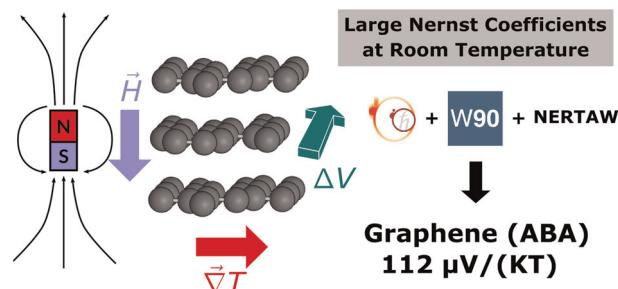
Junyao Li, Keqiang Lu, Shaokai Sun, Juanjuan Peng* and Lingzhi Zhao*



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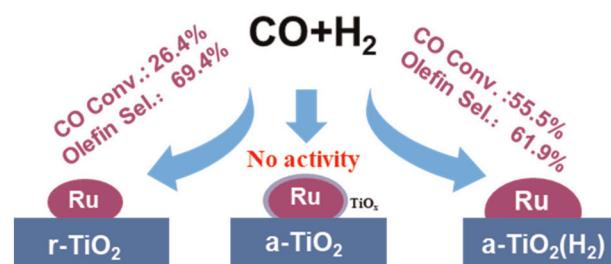
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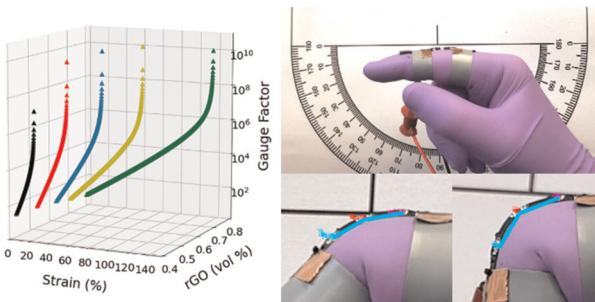
Control of metal–support interaction for tunable CO hydrogenation performance over Ru/TiO₂ nanocatalysts

Heyun Lin, Wenzhe Zhang, Huachen Shen, Hailing Yu, Yunlei An, Tiejun Lin* and Liangshu Zhong*



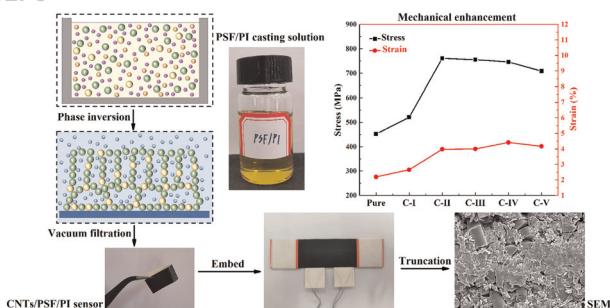
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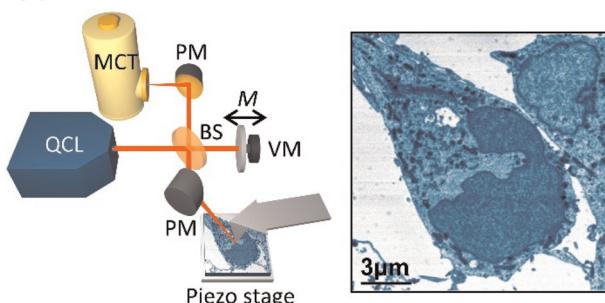
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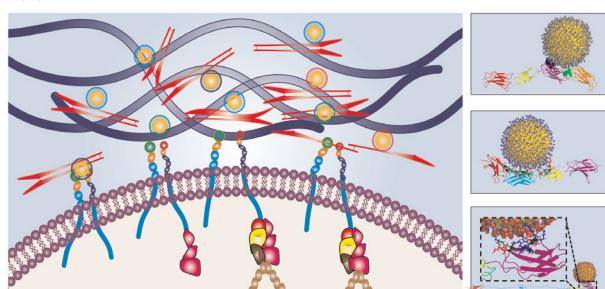
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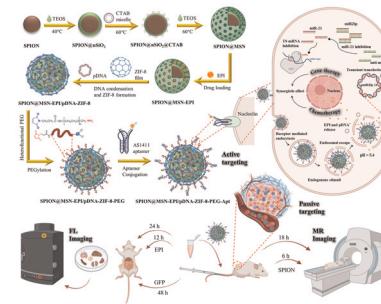


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Enhanced theranostic efficacy of epirubicin-loaded SPION@MSN through co-delivery of an anti-miR-21-expressing plasmid and ZIF-8 hybridization to target colon adenocarcinoma

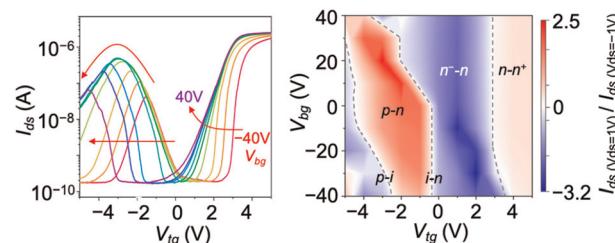
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Electrically tunable interlayer recombination and tunneling behavior in WSe₂/MoS₂ heterostructure for broadband photodetector

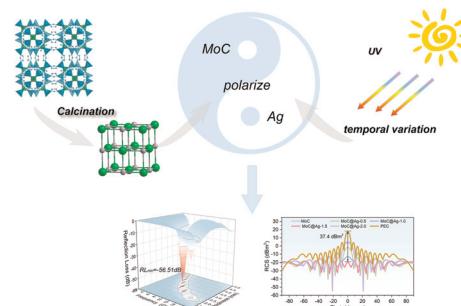
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Ping Zhao* and Wenhuan Huang*



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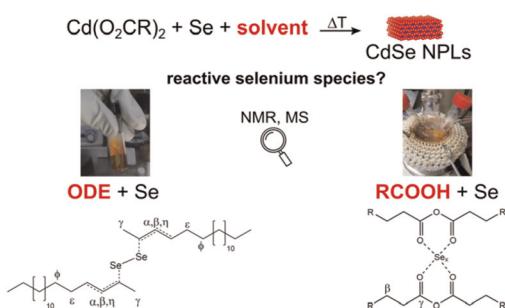
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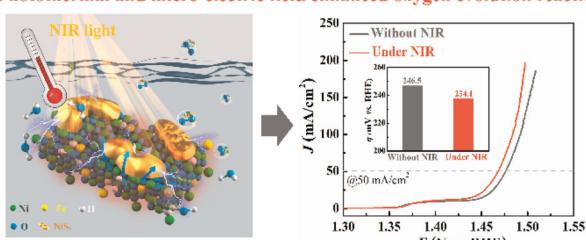
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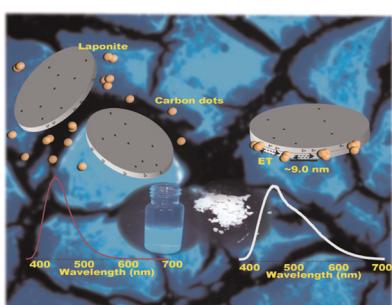


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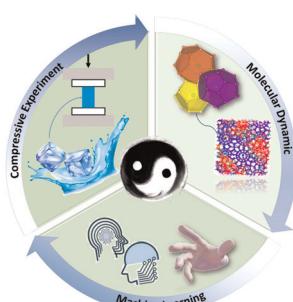
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Alessio Di Giacomo, Alina Myslovska, Vic De Roo, Jan Goeman, José C. Martins and Iwan Moreels*

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Zhenyang Jin, Caigan Xi, Jun Chen,* Yiping Ouyang, Feng Wang, Minhao Zhang* and Fengqi Song

