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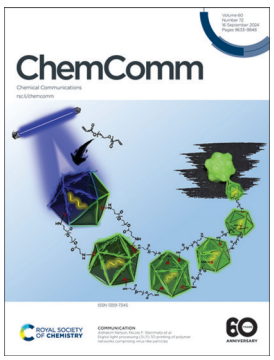
IN THIS ISSUE

ISSN 1359–7345 CODEN CHCOFS 60(72) 9633–9848 (2024)



Cover
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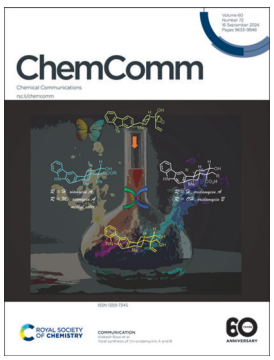


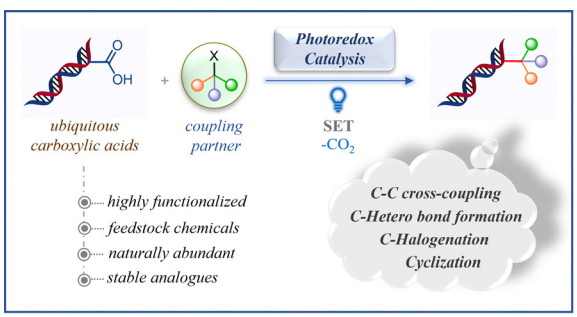
Inside cover
See Alakesh Bisai *et al.*, pp. 9737–9740. Image reproduced by permission of Alakesh Bisai from *Chem. Commun.*, 2024, **60**, 9737.

HIGHLIGHT

9645

Photocatalytic decarboxylation of free carboxylic acids and their functionalization

Subal Mondal, Subham Mandal, Soumya Mondal, Siba P. Midya and Pradyut Ghosh*

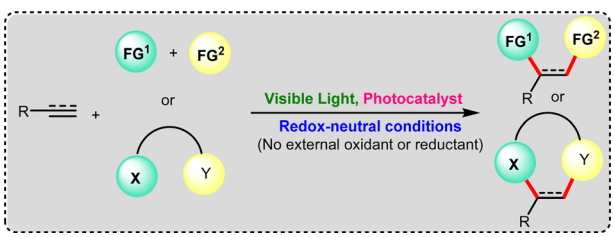


FEATURE ARTICLES

9659

Visible-light-induced redox-neutral difunctionalization of alkenes and alkynes

Susmita Mondal, Sumit Ghosh and Alakananda Hajra*



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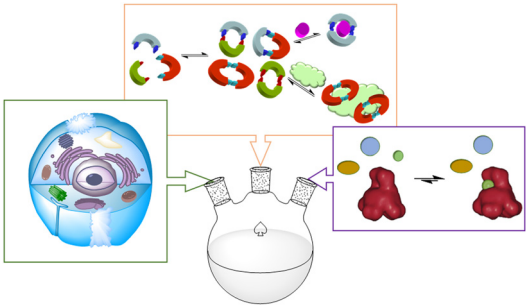
FEATURE ARTICLES

9692

Supramolecular chemical biology: designed receptors and dynamic chemical systems

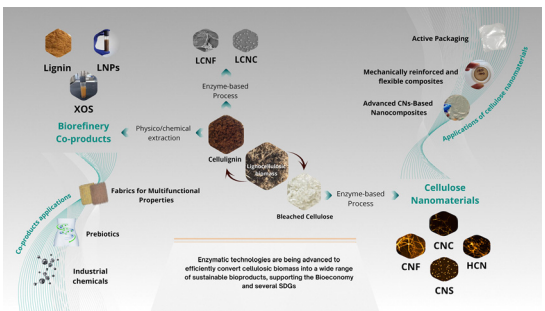
Ignacio Alfonso*



9704

Enzymatic approaches for diversifying bioproducts from cellulosic biomass

Valdeir Arantes,* Bruno Las-Casas, Isabella K. R. Dias, Sergio Luis Yupanqui-Mendoza, Carlaile F. O. Nogueira and Wilian F. Marcondes

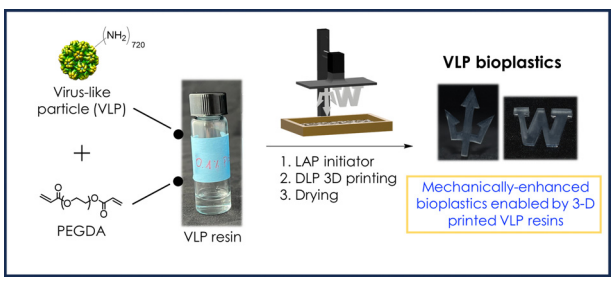


COMMUNICATIONS

9733

Digital light processing (DLP) 3D printing of polymer networks comprising virus-like particles

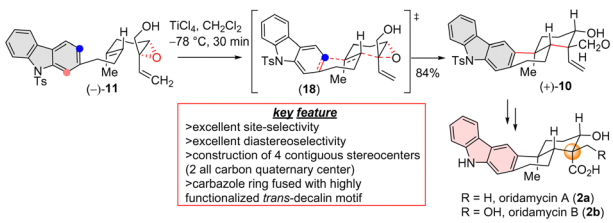
Naroa Sadaba, Jorge Leganés Bayón, Alshakim Nelson* and Nicole F. Steinmetz*



9737

Total synthesis of (+)-oridamycins A and B

Ranjit Murmu, Sourav Kundu, Moumita Majhi, Souvik Pal, Abhishek Mondal and Alakesh Bisai*



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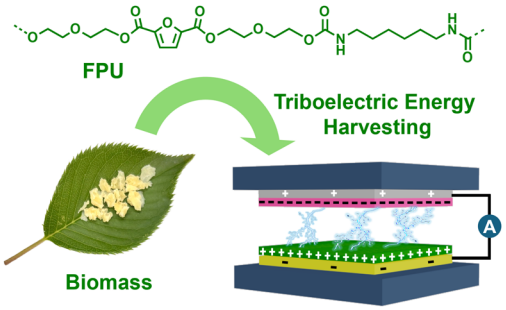
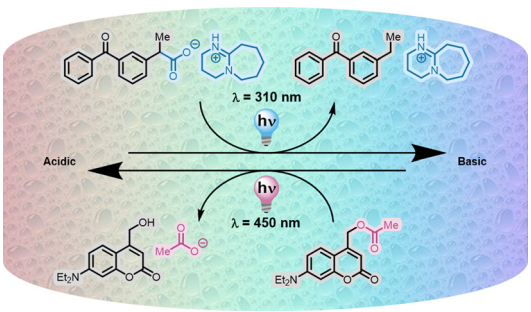
9741



Polyurethanes synthesized using biomass-derived furan diols as sustainable triboelectric materials

June Young Jang, Youngmin Byun, Sijin You, Seunghun Kim, Dong-Min Lee, Sang-Woo Kim* and Seung Uk Son*

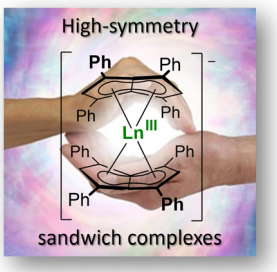
9745



Optical control of pH *via* chromoselective photodosimetry

Amrita Chaudhuri, Linda E. Eijsink and Nadja A. Simeth*

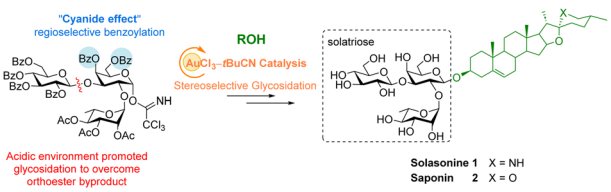
9749



Tetraphenylpentalenide organolanthanide complexes

Nicholas J. Katzer, Mandeep Kaur, Asmita Sen, Rupal Nimaiyar, Jochen Autschbach,* Polly L. Arnold* and Ulrich Hintermair*

9753



Convergent synthesis of glycoalkaloids solasonine and its saponin derivative

Yue Yang, Tong Li, Huiran Hao, Ju-Zheng Sheng, Tianlu Li* and Peng Peng*

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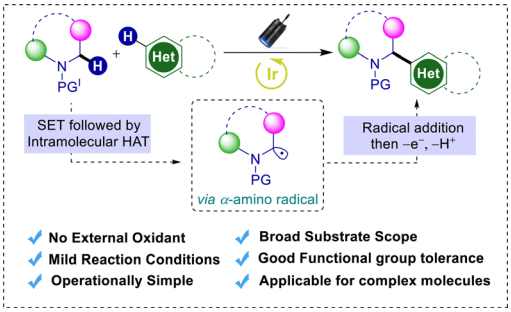
9757

Photoredox cross-dehydrogenative C(sp^2)–C(sp^3) coupling of heteroarenes with secondary amines through 1,5-HAT

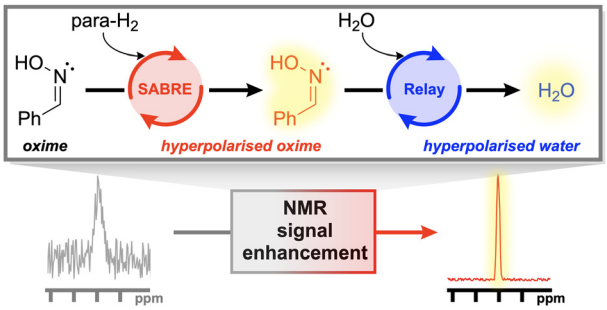
Vinjamuri Srinivasu, Swadhin Pattanaik and Devarajulu Sureshkumar*



9761

Aldoximes enable proton-relayed NMR hyperpolarisation

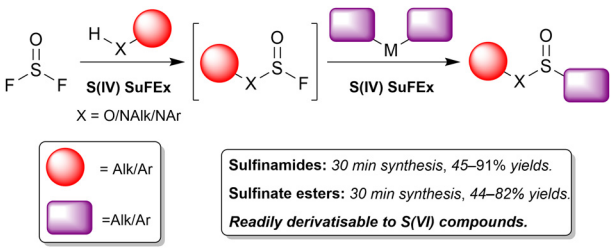
Naomi E. Leydman and Philip L. Norcott*



9765

Thionyl fluoride as a sulfur(IV) SuFEx hub for the efficient syntheses of sulfinamides and sulfinate esters

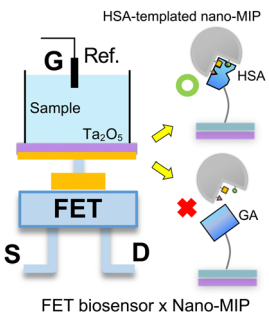
William P. Chappell, Marie Favié and Glenn M. Sammis*



9769

Electrical monitoring of human-serum-albumin-templated molecularly imprinted polymer nanoparticles with high affinity based on molecular charges and their visualization

Youyuan Man, Shoichi Nishitani, Kazuaki Sawada and Toshiya Sakata*



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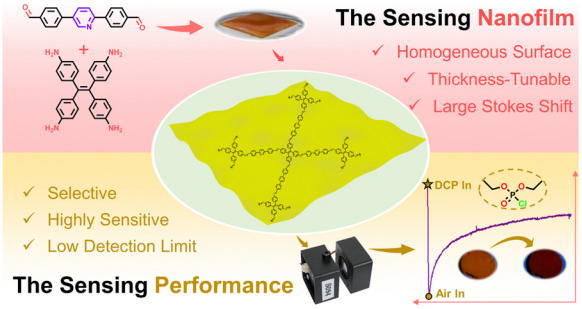
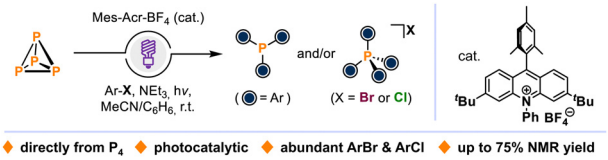
9773



Highly sensitive and selective detection of DCP vapors using pyridine-based fluorescent nanofilms

Zebiao Qiu, Yue Xiao, Ling Zhang, Yupei Miao, Bei Zhang, Xiaolin Zhu,* Liping Ding,* Haonan Peng* and Yu Fang

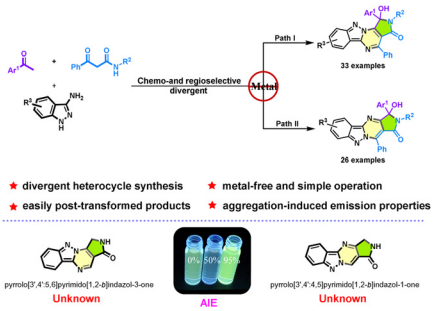
9777



Photocatalytic functionalization of white phosphorus with aryl bromides and chlorides

Martin Gawron, Jannes Rückel and Robert Wolf*

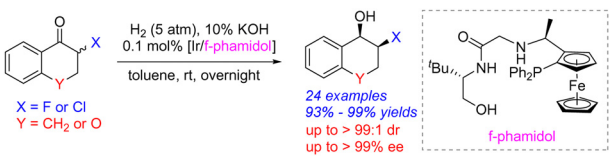
9781



Divergent synthesis of pyrrolidone fused pyrimido[1,2-*b*]indazole through selective trapping of an enone intermediate by 1*H*-indazol-3-amine

Xi Shen, Zhi-Cheng Yu, You Zhou, Yan-Dong Wu and An-Xin Wu*

9785



Highly efficient synthesis of enantioenriched vicinal halohydrins *via* Ir-catalyzed asymmetric hydrogenation using dynamic kinetic resolution

Bin He, Gen-Qiang Chen* and Xumu Zhang*

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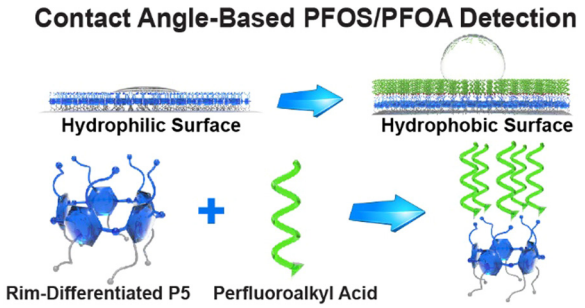
9789

Rim-differentiated pillar[5]arene-modified surfaces for rapid PFOA/PFOS detection

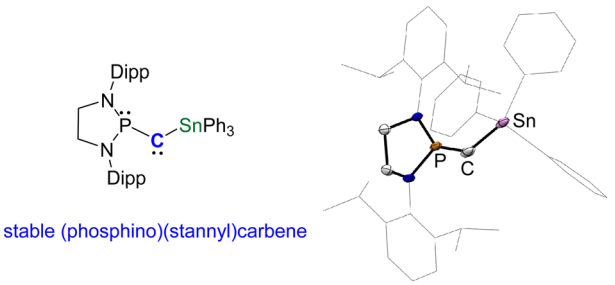
Tu-Nan Gao, Zhen Yang, Jesse M. S. Goed, Han Zuilhof* and Fedor M. Miloserdov*



9793

(Phosphino)(stannyl)carbene

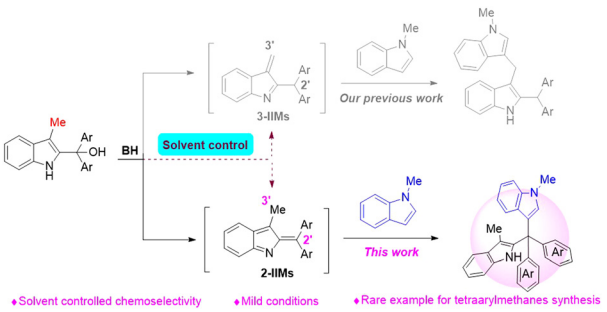
Rui Wei, Xin-Feng Wang, Chaopeng Hu and Liu Leo Liu*



9797

Trifluoroethanol promoted formal nucleophilic substitution of indol-2-yl diaryl methanol for the synthesis of tetraarylmethanes

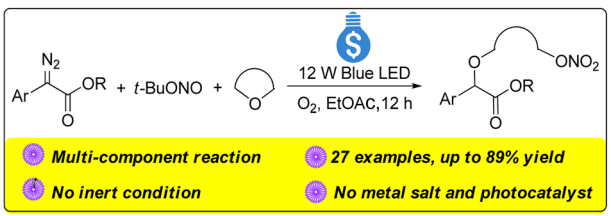
Cuicui Nian, Run Yu, Zhengyu Han, Yang Bai, Jianhao Wang, Jianwei Sun* and Hai Huang*



9801

Metal-free visible-light-mediated aerobic nitrooxylation for the synthesis of nitrate esters with *t*-BuONO

Yufen Lv,* Jindong Hao, Jian Huang, Lianhui Song, Huilan Yue, Wei Wei* and Dong Yi*



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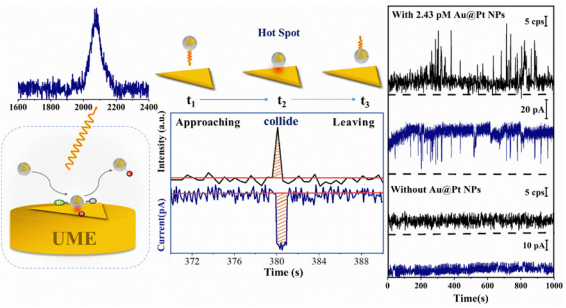
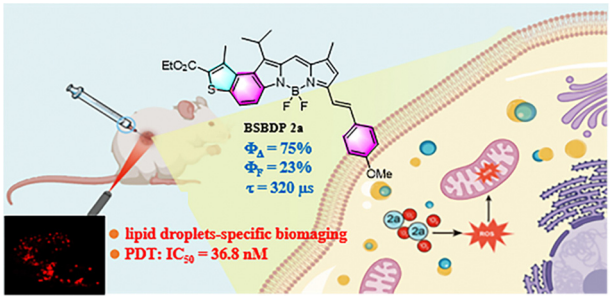


Improving insight into the localized electrochemical Volmer reaction based on surface enhanced Raman spectroscopy and collisions

Xiaoyu Liu, Chenjie Zhang, Chen Wang, Yaxian Yuan* and Jianlin Yao*

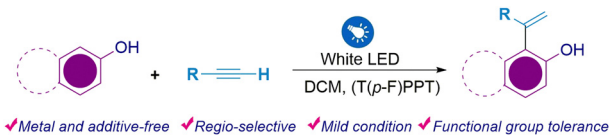
9809



Heavy-atom-free triplet benzothiophene-fused BODIPY derivatives for lipid droplet-specific biomaging and photodynamic therapy

Weibin Bu, Changjiang Yu,* Yingxiu Man, Jiazhu Li,* Qinghua Wu, Shuangying Gui,* Yaxiong Wei,* Lijuan Jiao and Erhong Hao*

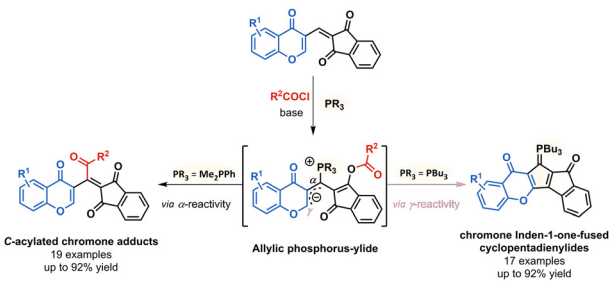
9813



A selective photoinduced radical *O*-alkenylation of phenols and naphthols with terminal alkynes

V. Praveen Kumar, C. S. Athira, B. Mohan, S. Priya and B. S. Sasidhar*

9817



Diversity-oriented synthesis of chromone inden-1-one-fused cyclopentadienylides and *C*-acylated chromone adducts *via* allylic phosphorus ylides

Durga Prasad Gurram, Gangababu Marri, Naveen Jothimani, Yi-Ru Chen and Wenwei Lin*

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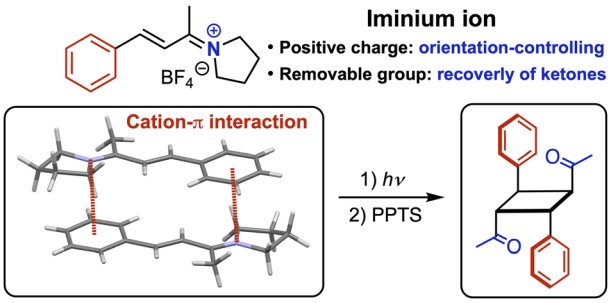
9821

Solid-state [2+2] photodimerization of eniminium salts: stereoselective syntheses of 1,3-diacetylcyclobutanes

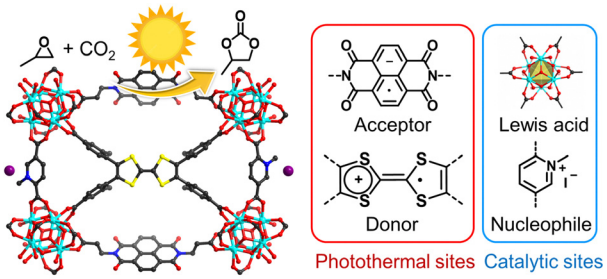
Shinji Yamada* and Yuka Honda



9825

Designing photothermal catalytic systems in multi-component MOFs for enhanced conversion of carbon dioxide

Yulun Wu, Lei Gao, Xiao-Cheng Zhou, Xiang Yu, Ya-Ru Meng, Jing-Lin Zuo, Jian Su* and Shuai Yuan*

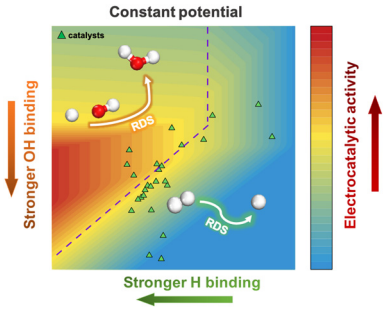


Multi-component MOFs as photothermal catalysts

9829

Modelling the activity trend of the hydrogen oxidation reaction under constant potential conditions

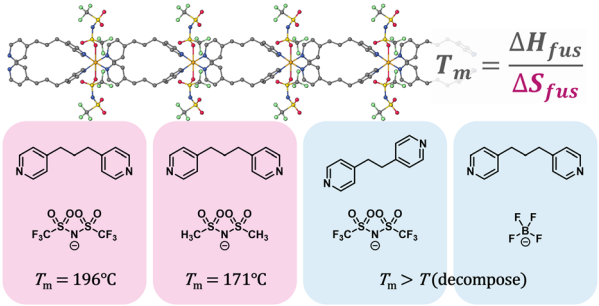
Wenhui Ling, Jian Liu and Bo Yang*



9833

Entropically driven melting of Cu-based 1D coordination polymers

Yuki Ohara, Taichi Nishiguchi, Xin Zheng, Shin-ichiro Noro,* Daniel M. Packwood* and Satoshi Horike*



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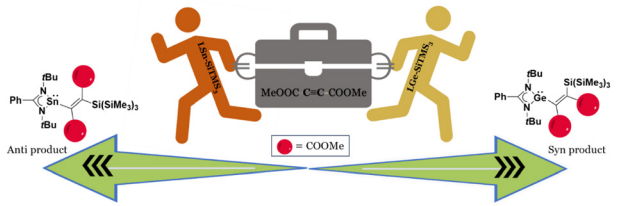
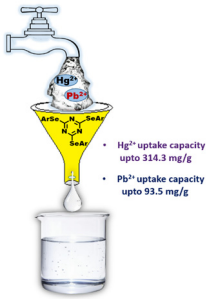


Stereodivergent sila-germylenation *vs.* sila-stannylenation of an internal alkyne

V. S. Ajithkumar, Pratiksha B. Ghanwat, Sougata Saha, Swapan K. Pati* and Sakya S. Sen*

9841



Removal of mercury and lead ions from water using bioinspired N_3Se_3 type small sized moieties

Avinash Chaurasia and Abhishek Kumar*

CORRECTIONS

9845

Correction: Oral delivery of a platinum anticancer drug using lipid assisted polymeric nanoparticles

Qinqin Cheng, Hongdong Shi, Hai Huang, Zhiting Cao, Jun Wang* and Yangzhong Liu*

9846

Correction: Co-delivery of all-*trans*-retinoic acid enhances the anti-metastasis effect of albumin-bound paclitaxel nanoparticles

Hai Huang, Hongdong Shi, Jing Liu, Yuanzeng Min, Yucai Wang, Andrew Z. Wang, Jun Wang and Yangzhong Liu*

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