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P-01-0183	Synthesis and Reactivity of Asymmetric Diborenes Featuring a B=B(L) ₂ Fragment <u>Lu Wei</u> , Yongxin Li, Rakesh Ganguly, and Rei KINJO* Nanyang Technological University
P-01-0203	Metal-free Regio- and Chemoselective Hydroboration of Pyridines Catalyzed by 1,3,2-Diazaphosphenium Triflate <u>B. Rao</u> , and R. Kinjo* Nanyang Technological University
P-01-0212	Transition-Metal-Free Decarboxylative Cascade Propargylic Substitution/Cyclization with either Azolium Enolates or Acyl Anions [1] Dr. S. Lu ¹ , <u>J.-Y. Ong</u> ¹ , S. B. Poh ¹ , T. Tsang ¹ and Prof. Y. Zhao ^{1*} ¹ National University of Singapore
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P-01-0285	Towards the synthesis of trichoether A <u>Ko Weiting</u> , Roderick W. Bates* Nanyang Technological University
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P-01-0318	Cobalt-Catalyzed Synthesis of Stereospecific gem-Bisborylalkanes : Methodology and Application <u>W. J. Teo</u> ¹ and S. Ge ^{1*} ¹ National University of Singapore
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P-01-0350	E-Selective Alkyne Hydrosilylation Catalysed by Rhodium PCCC(P) Phosphino Allyl Complexes <u>Qingyang Wang</u> ¹ , Hendrik Tinnermann ¹ , Shaun Tan Yi Jie ¹ , Simon Sung ¹ , Tobias Kramer ² and Rowan Drury Young ^{1*} ¹ National University of Singapore ² National University of Ireland Maynooth

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P-01-0423	Cobalt-Catalyzed Biaryl Couplings via C–F Bond Activation in the Absence of Phosphine or NHC Ligands Wei Juan National University of Singapore
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P-07-0591	Unique Structural and Electronic Effects in Pt/CNT Catalyzed Oxygen Reduction Reaction J. Gan¹ , W. Luo, ¹ J. K. Zhang, ² Y. Qin, ² Z. H. Xiang, ³ X. G. Zhou, ¹ and X. Z. Duan ^{1*} ¹ East China University of Science and Technology ² Institute of Coal Chemistry, Chinese Academy of Sciences ³ Beijing University of Chemical Technology
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P-08-0327	Toward A High-Performance All-Plastic Full Battery with A Single Organic Polymer as Both Cathode and Anode Jian Xie¹ and Qichun Zhang ^{1*} ¹ Nanyang Technological University

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P-08-0440	Non-fullerene acceptors as promising electron transporting materials in inverted perovskite solar cell A.A. Said ^{1*} and Q. Zhang ¹ ¹ Nanyang Technological University
P-08-0472	Highly-nonlinear flexible threshold switch for the selection of sensory arrays M. Wang ¹ and X. Chen ^{2*} ¹ Nanyang Technological University
P-08-0498	The Effect of Nuclear Tunnelling in Charge Transport through Conjugated Molecules with Ferrocene Headgroups Ziyu Zhang National University of Singapore
P-08-0502	Plasticizing Silk Protein for On-Skin Stretchable Electrodes Geng Chen ¹ , Xiaodong Chen ^{1*} ¹ Nanyang Technological University
P-08-0503	Auxetic Mechanical Metamaterial: Enhancing Sensitivity of Stretchable Strain Sensor Ying Jiang ¹ , Zhuangjian Liu ^{2*} , Xiaodong Chen ^{1*} ¹ Nanyang Technological University ² Institute of High Performance Computing, Agency for Science Technology and Research
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P-09-0335	Sulfate Species at Titanium Dioxide Nanoparticles Surface Improve Photocatalytic Activity Xuan Hao Lin ¹ , Sam Fong Yau Li ^{1,2*} ¹ National University of Singapore ² NUS Environmental Research Institute (NERI)
P-09-0452	Generation of acidic metal hydrides employing "Frustrated Lewis Pair" chemistry for E-X bond activation and catalysis Craig Fraser ¹ and Rowan Young ^{1*} ¹ National University of Singapore

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P-10-0331	Dissolvable Polyvinyl-Alcohol Film, Time-Barrier for Sample Flow Using a 3D-Printed Sensor Holder Dorin Harpaz ^{1,2} , Tim Axelrod ¹ , Alicia Lu Yitian ² , Robert S. Marks ^{1,2,*} and Alfred I.Y. Tok ^{2,*} ¹ Ben-Gurion University of the Negev ² Nanyang Technology University
P-10-0336	Outer membrane lipid homeostasis via retrograde phospholipid transport in Escherichia coli Rahul Shrivastava ^{1*} , Xiang'Er Jiang ¹ , Shu-Sin Chng ¹ ¹ National University of Singapore
P-10-0337	Characterization of roles of auxiliary proteins in an ABC transporter complex implicated in maintenance of outer membrane lipid asymmetry in Escherichia coli S-S. Chng ¹ and S. Thong ^{1*} ¹ National University of Singapore
P-10-0349	6-Heteroaryl-amino-2,4,5-trimethylpyridin-3-ols Inhibit TNF- α -induced Cell Adhesion and Ameliorate Rat Colitis S. W. Park ¹ , S. Banskota ² , B. S. Jeong ² , J. A. Kim ² and T. G. Nam ^{2*} ¹ Hanyang University ² Yeungnam University
P-10-0404	A Smartphone-based Portable Analytical System for On-site Quantification of Hypochlorite and Its Scavenging Capacity of Antioxidants Xin Yang ¹ , Mingtai Sun, ^{1,2} Tian Wang, ¹ Ming Wah Wong, ¹ Dejian Huang ^{1,3} ¹ National University of Singapore ² Institute of Intelligent Machines, Chinese Academy of Sciences ³ National University of Singapore (Suzhou) Research Institute
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P-10-0419	The architecture of the OmpC-MlaA complex sheds light on the maintenance of outer membrane lipid asymmetry in Escherichia coli J. Yeow ^{1,2,*} , K. W. Tan ¹ , D. A. Holdbrook ³ , Z.-S. Chong ¹ , J. K. Marzinek ^{1,3} , P. J. Bond ^{1,3} , S.-S. Chng ¹ ¹ National University of Singapore ² NUS Graduate School for Integrative Sciences and Engineering (NGS) ³ Bioinformatics Institute, Agency for Science, Technology, and Research (A*STAR)
P-10-0425	Targeting Cancer Bioenergetics with An Activatable Prodrug To Overcome Drug Resistance A. Sharma ¹ and J. S. Kim ^{1*} ¹ Korea University
P-10-0428	Delivery Of Therapeutic Proteins To Different Subcellular Organelles Facilitated By Cell-Penetrating Poly(disulphide)s (CPDs) S. S. Liew ¹ and Shao. Q. Yao ^{1*} ¹ National University of Singapore
P-10-0488	COX-2 Inhibition Mediated Anti-angiogenic Activatable Prodrug Potentiates Cancer Therapy in Preclinical Models H. S. Kim ¹ , G. Y. Park, ¹ I. Shim, ¹ J. Shin, ¹ T. Jeong, ¹ S. Son, ¹ K. Sunwoo, ¹ S. Koo, ¹ W. Y. Kim, ¹ J. Kim, ¹ and J. S. Kim ^{1*} ¹ Korea University

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P-10-0511	Spatiotemporal-controlled Reporter for Cell Surface Proteolytic Enzyme Activity Visualization Haolun Cheong ¹ , Jisu Kim ¹ , Jing Mu ¹ , Wenmin Zhang ^{1,2} , Juan Li ² , HuangHao Yang ² and Bengang Xing ^{1,2*} ¹ Nanyang Technological University ² Fuzhou University
P-10-0512	Indomethacin-guided COX-2 targeting dual model synergistic chemotherapy system for efficient eradication of tumours Paramesh Jangili ¹ , Won Youg Kim ¹ , Jinwoo Shin ¹ , Soobin Kim ¹ , Inseob Shim ¹ , Taeho Jeong ¹ , Myung Sun Ji ¹ , Ji Hyeon Kim ¹ , Geun Young Park ¹ , Miae Won ¹ , Chulhan Kang ^{*2} and Jong Seung Kim ^{*1} ¹ Korea University ² Kyung Hee University
P-10-0515	Remote Regulation of Membrane Channel Activity by Site-Specific Localization of Lanthanide-Doped Upconversion Nanocrystals Xiangzhao Ai , Linna Lyu, Yang Zhang, Yanxia Tang, Jing Mu, Fang Liu, Yixi Zhou, Zhenghong Zuo, Gang Liu, [*] and Bengang Xing [*] Nanyang Technological University
P-10-0518	Dual targeting cancer cells using reinforced natural substances and anticancer agents. J. H. Kim ¹ , J. Shin ¹ , K. Sunwoo ¹ , I. Shim ¹ , W. Y. Kim ¹ , S. Son ¹ , S. Kim ¹ , A. Sharma ¹ , G. Y. Park ¹ , M. S. Ji ¹ , and J. S. Kim ^{1*} ¹ Korea University
P-10-0520	In situ generation of amphiphilic nanoaggregate for sensing of Hg ²⁺ ions in live cell S. Koo ¹ , J. Shin ¹ , H. S. Kim ¹ , G. Y. Park ¹ , S. Kim ¹ , W. Y. Kim ¹ , A. Sharma ¹ , M. S. Ji ¹ , J. H. Kim ¹ , T. Jung ¹ and J. S. Kim ^{1*} ¹ Korea University
P-10-0522	Antimalarial Agent with Synergistic Activities with Classical Drug and Heparin toward Plasmodium-infected Red Blood Cells Jiseon Kim ¹ , Hyeong Seok Kim, Geun Young Park, Myung Sun Ji, Soobin Kim, Taeho Jung, Inseob Shim, Ji Hyeon Kim, Won Young Kim, Kyoung Sunwoo and Jong Seung Kim [*] ¹ Korea University
P-10-0523	Repurposing Antibiotics as a Novel Anticancer Drug: Next-generation Molecular Theranostics Towards Precision Medicine K. Sunwoo ¹ , W. Y. Kim, ¹ T. Jeong, S. Koo, ¹ H. S. Kim, ¹ G. Y. Park, ¹ S. Kim, ¹ J. Kim, ¹ S. Son, ¹ M. S. Ji ¹ and J. S. Kim ^{1*} ¹ Korea University
P-10-0524	Glycyrrhetic Acid as Hepatocyte Targeting Unit for Diagnosis and Anticancer Drug Delivery System with Enhanced Cell Type Selectivity M. S. Ji ¹ , W. Y. Kim, ¹ I. Shim, ¹ J. H. Kim, ¹ K. Sunwoo, ¹ J. Kim, ¹ T. Jeong, ¹ S. Son, ¹ S. Koo, ¹ S. Kim and J. S. Kim ^{1*} ¹ Korea University
P-10-0525	A Two-Photon Fluorescent Probe Records the Intracellular pH through 'OR' Logic Operation via a Bichromic Internal Calibration Miae Won , Soobin Kim, Peter Verwilt, Geun Young Park, Subin Son, Taeho Jeong, Myung Sun Ji, Kyoung Sunwoo, Jinwoo Shin, Hyeong Seok Kim and Jong Seung Kim [*] Korea University
P-10-0526	Next-Generation Two-Photon β -Amyloid Dyes: Minimizing Background Fluorescence Jinwoo Shin ^{1*} , Soobin Kim, ¹ Jiseon Kim, ¹ Kyoung Sunwoo, ¹ Hyeong Seok Kim, ¹ Geun Young Park, ¹ Subin Son, ¹ Taeho Jeong, ¹ Myung Sun Ji, ¹ Seyoung Koo, ¹ and Jong Seung Kim ¹ ¹ Korea University

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P-10-0529	<p>MAO-A Targeting Two Photon Probe for Prostate Cancer Imaging</p> <p>W. Y. Kim¹, J. Shin,¹ S. Kim,¹ S. Son,¹ J. S. Kim,¹ S. Koo,¹ H. S. Kim,¹ A. Sharma,¹ G. Y. Park,¹ K. Sunwoo¹ and J. S. Kim^{1*}</p> <p>¹Korea University</p>
P-10-0530	<p>NSAID-based Theragnostic Prodrug for Synergistic Chemotherapy with COX-2 Inhibition</p> <p>L. Shim¹, A. Sharma¹, S. Son¹, W.Y. Kim¹, J. Kim¹, J.H. Kim¹, H.S. Kim¹, S. Koo¹, M.S. Ji¹, G.Y. Park¹ and J.S. Kim^{1*}</p> <p>¹Korea University</p>
P-10-0533	<p>Endogenous NQO1 Detection Using Chemiluminescent Probe in vivo model.</p> <p>S. Son, K. Sunwoo, I. Shim, T. Jeong, H. S. Kim, S. Koo, A. Sharma, J. H. Kim, M. S. Ji, J. Shin and J. S. Kim*</p> <p>Korea University</p>
P-10-0534	<p>Near Infrared Light-mediated Photoactivation of Cytotoxic Re(I) Complexes by Using Lanthanidedoped Upconversion Nanoparticles</p> <p>Ming Hu,¹ Jixian Zhao,² Xiangzhao Ai,¹ Maja Budanovic,¹ Jing Mu,¹ Richard D. Webster,¹ Qian Cao,^{2*} Zongwan Mao,^{2*} Bengang Xing^{1,3*}</p> <p>¹Nanyang Technological University ²Sun Yat-sen University ³Institute of Materials Research and Engineering (IMRE); Agency for Science, Technology and Research (A*STAR)</p>
P-10-0536	<p>pH-Sensitive and Biodegradable Charge-Transfer Nanocomplex for Second Near-Infrared Photoacoustic Tumor Imaging</p> <p>Zhimin Wang¹, Paul Kumar Upputuri¹, Xu Zhen¹, Ruochong Zhang¹, Yuyan Jiang¹, Xiangzhao Ai¹, Zhijun Zhang¹, Ming Hu¹, Zhenyu Meng¹, Yunpeng Lu¹, Yuanjing Zheng¹, Kanyi Pu¹, Manojit Pramanik^{1*} and Bengang Xing^{1*}</p> <p>¹Nanyang Technological University</p>
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