

## 2019 年度实验室发表论文目录

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1	Catalyst-Free Phosphorylation of Aryl Halides with Triethyl Phosphite through Electrochemical Reduction	Shuai Wang, Cheng Yang, Shuo Sun, and Jianbo Wang*	<i>Chem. Commun.</i> <b>2019</b> , 55, 14035-14038.
2	Palladium-Catalyzed Oxidative Cross-Coupling of Conjugated Enynones with Allylarenes: Synthesis of Furyl-Substituted 1,3-Dienes	Yifan Ping, Sudong Zhang, Taiwei Chang, and Jianbo Wang*	<i>J. Org. Chem.</i> <b>2019</b> , 84, 8275-8283.
3	Metal-Free Synthesis of gem-Silylboronate Esters and Their Pd(0)-Catalyzed Cross-Coupling with Aryliodides	Chaoqiang Wu, Zhicheng Bao, Xing Xu and Jianbo Wang*	<i>Org. Biomol. Chem.</i> <b>2019</b> , 17, 5714-5724.
4	Visible Light-Promoted Ring-Opening Alkynylation, Alkenylation and Allylation of Cyclic Hemiacetals through beta-Scission of Alkoxy Radicals	Jiang-Ling Shi, Zixuan Wang, Rui Zhang, Yuankai Wang, and Jianbo Wang*	<i>Chem. Eur. J.</i> <b>2019</b> , 55, 8992-8995.
5	Rh(I)-Catalyzed Intramolecular [2+2+1] Cycloaddition of Diyne with the N-Terminal of Diazo Group	Bo Wang, Yuankai Wang, Zixuan Wang and Jianbo Wang*	<i>Org. Chem. Front.</i> <b>2019</b> , 6, 2329-2333.
6	Fe(II)-Catalyzed Oxidative Alkenylation of Benzylic C-H Bond with Diazo Compounds	Jiang-Ling Shi, Qinyu Luo, Weizhi Yu, Bo Wang, Zhang-Jie Shi and Jianbo Wang*	<i>Chem. Commun.</i> <b>2019</b> , 55, 4047-4050.
7	Formal Carbene C-H Bond Insertion in the Cu(I)-Catalyzed Reaction of Bis(trimethylsilyl)diazomethane with Benzoxazoles and Oxazoles	Shuai Wang, Shuai Xu, Cheng Yang, Hanli Sun, Jianbo Wang*	<i>Org. Lett.</i> <b>2019</b> , 21, 1809-1812.
8	Generation of Difluoroketenimine and Its Application in the Synthesis of -Difluoro- -amino Amides	Rui Zhang, Zhikun Zhang, Qi Zhou, Lefei Yu, Jianbo Wang*	<i>Angew. Chem. Int. Ed.</i> <b>2019</b> , 58, 5744-5748.
9	Application of Carbene Chemistry in the Synthesis of Organofluorine Compounds	Xuyong Wang, Xi Wang,* and Jianbo Wang*	<i>Tetrahedron</i> <b>2019</b> , 75, 949-964.
10	Palladium-Catalyzed Carbene Coupling of N-Tosylhydrazones and Arylbromides to Synthesize Cross-Conjugated Polymers	Qi Zhou, Yunpeng Gao, Yiyang Xiao, Lefei Yu, Zihao Fu, Zichen Li, and Jianbo Wang*	<i>Polym. Chem.</i> <b>2019</b> , 10, 569-573.
11	Transition-Metal-Free [4+1] Cycloaddition for the Synthesis of 1,2,3-Triazole from -Difluoro-N-Tosylhydrazone and Amine via C-F Bond Cleavage	Qi Zhou, Zihao Fu, Lefei Yu and Jianbo Wang*	<i>Asian J. Org. Chem.</i> <b>2019</b> , 8, 646-649.
12	Palladium-Catalyzed Oxidative Borylation of Conjugated Enynones through Carbene Migratory Insertion: Synthesis of Furyl-Substituted Alkenylboronates	Yifan Ping, Taiwei Chang, Kang Wang, Jingfeng Huo, and Jianbo Wang*	<i>Chem. Commun.</i> <b>2019</b> , 55, 59-62.
13	Recent Advance in Asymmetric Trifluoromethylthiolation	Shu-Sen Li, Jianbo Wang*	<i>Acta Chimica Sinica</i> <b>2019</b> , 77, 913-924.
14	Transition-Metal-Catalyzed Cross-Coupling with Non-Diazo Carbene	Kang Wang, Jianbo Wang*	<i>Synlett</i> <b>2019</b> , 30, 542-551.

	Precursors		
15	Synthesis of 2-cyclopropyl-4-pyrones and 5-cyclopropyl-2-alkylene-3(2H)-furanones based on tandem cyclization-cyclopropanation strategy	Weishun Liu, Lin Fang, Yinbo Wan, Jianfang Zhang, Guisheng Deng,* Jianbo Wang	<i>Tetrahedron</i> <b>2019</b> , <i>75</i> , 855-861.
16	Enantioselective Syntheses and Application of 4- <i>epi</i> -Galiellalactone and the Corresponding Activity-Based Probe: From Strained Bicycles to Strained Tricycles	Yandong Lu, Shan Zhao, Shijie Zhou, Si-Cong Chen and Tuoping Luo*	<i>Org. Biomol. Chem.</i> <b>2019</b> , <i>17</i> , 1886-1892.
17	Scalable Total Synthesis of (-)-Vinigrol	Xuerong Yu, Lianghong Xiao, Zechun Wang and Tuoping Luo*	<i>J. Am. Chem. Soc.</i> <b>2019</b> , <i>141</i> , 3440-3443.
18	A Modular PROTAC Design for Target Destruction Using A Degradation Signal Based on A Single Amino Acid	Karthigayan Shanmugasundaram, Peng Shao, Han Chen, Bismarck Campos, X Stanton F. McHardy, Tuoping Luo, and Hai Rao*	<i>J. Biol. Chem.</i> <b>2019</b> , <i>294</i> , 15172-15175.
19	BN-Embedded Tetrabenzopentacene: A Pentacene Derivative with Improved Stability	Fang-Dong Zhuang, Ze-Hao Sun, Ze-Fan Yao, Qi-Ran Chen, Zhen Huang, Jing-Hui Yang, Jie-Yu Wang,* Jian Pei*	<i>Angew. Chem. Int. Ed.</i> <b>2019</b> , <i>58</i> , 10708-10712.
20	Embedding pyridine units in acceptors to construct donor-acceptor conjugated polymers	Zi-Yuan Wang, Jie-Yu Wang,* Jian Pei	<i>Chin. Chem. Lett.</i> <b>2019</b> , <i>30</i> , 25-30.
21	Improved Transistor Performance by Modulating Molecular Packing with Donor and Acceptor Moieties	Ze-Fan Yao, Han-Yu Liu, Zi-Yuan Wang, Ze-Kun Zhou, Jie-Yu Wang, Jian Pei*	<i>Chem. Asian J.</i> <b>2019</b> , <i>14</i> , 1686-1691.
22	Organic Semiconducting Alloys with Tunable Energy Levels	Jin-Hu Dou, Zhi-Ao Yu, Jun Zhang, Yu-Qing Zheng, Ze-Fan Yao, Zeyi Tu, Xinchang Wang, Shiliang Huang, Chengwen Liu, Junliang Sun, Yuanping Yi, Xiaoyu Cao, Yiqin Gao, Jie-Yu Wang, Jian Pei*	<i>J. Am. Chem. Soc.</i> <b>2019</b> , <i>141</i> , 6561-6568.
23	Recent Efforts in Understanding and Improving the Nonideal Behaviors of Organic Field-Effect Transistors	Hio-Ieng Un, Jie-Yu Wang, Jian Pei*	<i>Adv. Sci.</i> <b>2019</b> , <i>6</i> , 1900375.
24	Rigid Coplanar Polymers for Stable n-Type Polymer Thermoelectrics	Yang Lu, Zi-Di Yu, Run-Zhi Zhang, Ze-Fan Yao, Hao-Yang You, Li Jiang, Hio-Ieng Un, Bo-Wei Dong, Miao Xiong, Jie-Yu Wang, Jian Pei*	<i>Angew. Chem. Int. Ed.</i> <b>2019</b> , <i>58</i> , 11390-11394.
25	Strategies To Enhance the Conductivity of n-Type Polymer Thermoelectric Materials	Yang Lu, Jie-Yu Wang, Jian Pei*	<i>Chem. Mater.</i> <b>2019</b> , <i>31</i> , 6412-6423.
26	Understanding the Effects of Molecular Dopant on n-Type Organic Thermoelectric Properties	Hio-Ieng Un, Shawn A. Gregory, Swagat K. Mohapatra, Miao Xiong, Elena Longhi, Yang Lu, Sergei Rigin, Samik Jhulki, Chi-Yuan Yang, Tatiana V. Timofeeva, Jie-Yu Wang, Shannon K. Yee,* Stephen Barlow,* Seth R. Marder,* Jian Pei*	<i>Adv. Energy Mater.</i> <b>2019</b> , <i>9</i> , 1900817.
27	Wafer-Scale Fabrication of High-	Ze - Fan Yao, Yu - Qing Zheng,	<i>Adv. Mater.</i> <b>2019</b> , <i>31</i> ,

	Performance n-Type Polymer Monolayer Transistors Using a Multi-Level Self-Assembly Strategy	Qi - Yi Li, Ting Lei,* Song Zhang, Lin Zou, Han - Yu Liu, Jin - Hu Dou, Yang Lu, Jie - Yu Wang, Xiaodan Gu, Jian Pei*	1806747.
28	共轭高分子的多级组装	李其易; 雷霆*; 姚泽凡; 王婕好; 裴坚.*	高分子学报, <b>2019</b> , 1, 1-12.
29	Dinaphthobenzo[1,2:4,5]dicyclobutadiene with Strong Antiaromaticity and Orthogonally Tunable Electronics and Packing	Zexin Jin, Ze-Fan Yao, Kayla P. Barker, Jian Pei,* Yan Xia*	<i>Angew. Chem. Int. Ed.</i> <b>2019</b> , 58, 2034-2039.
30	Unveiling how intramolecular stacking modes of covalently linked dimers dictate photoswitching properties	Ru-Qiang Lu, Xiao-Yun Yan, Lei Zhu, Lin-Lin Yang, Hang Qu, Xin-Chang Wang, Ming Luo, Yu Wang, Rui Chen, Xiao-Ye Wang,* Yu Lan,* Jian Pei, Wengui Weng, Haiping Xia, Xiao-Yu Cao*	<i>Nat. Commun.</i> <b>2019</b> , 10, 5480.
31	Well-Defined Scandacycloprenes: Synthesis, Structure and Reactivity	Ze-Jie Lv, Zhe Huang, Jinghang Shen, Wen-Xiong Zhang*, and Zhenfeng Xi	<i>J. Am. Chem. Soc.</i> <b>2019</b> , 141, 20547-20555.
32	Scandium-Promoted Direct Conversion of Dinitrogen into Hydrazine Derivatives via C-N Bond Formation	Ze-Jie Lv, Zhe Huang, Wen-Xiong Zhang*, and Zhenfeng Xi*	<i>J. Am. Chem. Soc.</i> <b>2019</b> , 141, 8773-8777.
33	Direct Functionalization of White Phosphorus to Cyclotetraphosphanes: Selective Formation of Four P-C Bonds	Shanshan Du, Jimin Yang, Jingyuan Hu, Zhengqi Chai, Gen Luo, Yi Luo*, Wen-Xiong Zhang*, and Zhenfeng Xi	<i>J. Am. Chem. Soc.</i> <b>2019</b> , 141, 6843-6847.
34	Dinitrogen Functionalization Affording Chromium Hydrazido Complex	Jianhao Yin, Jiapeng Li, Gao-Xiang Wang, Zhu-Bao Yin, Wen-Xiong Zhang*, and Zhenfeng Xi*	<i>J. Am. Chem. Soc.</i> <b>2019</b> , 141, 4241-4247.
35	Tetralithio Metalla-aromatics with Two Independent Perpendicular Dilithio Aromatic Rings Spiro-fused by One Mn Atom	Yongliang Zhang, Junnian Wei, Miaomiao Zhu, Yue Chi, Wen-Xiong Zhang, Shengfa Ye*, 6and Zhenfeng Xi*	<i>Angew. Chem. Int. Ed.</i> <b>2019</b> , 58, 9625-9631.
36	Synthesis and Reactivity of Asymmetric Cr(I) Dinitrogen Complexes Supported by Cyclopentadienyl-Phosphine Ligands	Jiapeng Li, Jianhao Yin, Gao-Xiang Wang, Zhu-Bao Yin, Wen-Xiong Zhang*, and Zhenfeng Xi*	<i>Chem. Commun.</i> <b>2019</b> , 55, 9641-9644.
37	Alkaline-Earth Metallacyclic Complexes Bearing a Diborane-Bridged Tetraamide Ligand: Synthesis, Structure and Fluorescence Property	Nan Li, Zifeng Zhao, Chao Yu, Botao Wu, Zuqiang Bian, Wen-Xiong Zhang*, and Zhenfeng Xi	<i>Dalton Trans.</i> <b>2019</b> , 48, 9067-9071.
38	Reversible Two-Electron Redox Reactions Involving Tetralithio/Dilithio Palladole, Platinacycle, and Dicumpr[10]annulene	Zhe Huang, Yongliang Zhang, Wen-Xiong Zhang*, and Zhenfeng Xi*	<i>Organometallics</i> <b>2019</b> , 38, 2807-2811.
39	Dilithio Spiro Zincacyclopentadienes and Dizinc[10]cycles: Synthesis and Structural Characterization	Yongliang Zhang, Liang Liu, Tianyang Chen, Zhe Huang, Wen-Xiong Zhang*, and Zhenfeng Xi*	<i>Organometallics</i> <b>2019</b> , 38, 2174-2178.
40	Indacyclopentadienes and Aromatic Indacyclopentadienyl Dianions: Synthesis and Characterization	Yongliang Zhang, Zhenqiang Yang, Wen-Xiong Zhang*, and Zhenfeng Xi*	<i>Chem. Eur. J.</i> <b>2019</b> , 25, 4218-4224.
41	Synthesis and Characterization of Manganese(II) Complexes Supported	Gao-Xiang Wang, Jianhao Yin, Jiapeng Li, Zhu-Bao Yin, Wen-	<i>Inorg. Chem. Front.</i> <b>2019</b> , 6, 428-433.

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42	Isolation and Characterization of a Trinuclear Rare-Earth Metal Complex Containing a Bicyclo[3.1.0]-P <sub>6</sub> <sup>4-</sup> Ligand	Shanshan Du, Zhengqi Chai, Jingyuan Hu, Wen-Xiong Zhang*, and Zhenfeng Xi	<i>Chin. J. Org. Chem.</i> <b>2019</b> , 39, 2338-2342.
43	Isolation and Characterization of Four Phosphorus Cluster Anions P <sub>7</sub> <sup>3-</sup> , P <sub>14</sub> <sup>4-</sup> , P <sub>16</sub> <sup>2-</sup> and P <sub>26</sub> <sup>4-</sup> from the Nucleophilic Functionalization of White Phosphorus with 1,4-Dilithio-1,3-Butadienes	Shanshan Du, Jingyuan Hu, Zhengqi Chai, Wen-Xiong Zhang*, and Zhenfeng Xi	<i>Chin. J. Chem.</i> <b>2019</b> , 37, 71-75.
44	Selective Reduction of 1,5-Diazacyclooctatetraenes: Synthesis and Structures of Aromatic Diazacyclooctatetraenyl Dianions and a 2,6-Bipyrrrolinyl Dianionic Co(II) Complex	Zhe Huang, Gengwen Tan, Chao Chen, Wen-Xiong Zhang, Xinping Wang and Zhenfeng Xi*	<i>Chem. Commun.</i> <b>2019</b> , 55, 2648–2651.
45	Asymmetric Total Synthesis of (-)-Pavidolide B via a Thiyl-Radical-Mediated [3 + 2] Annulation Reaction	Pengpeng Zhang, Yuanhe Li, Zhiming Yan, Jianxian Gong*, Zhen Yang*	<i>J. Org. Chem.</i> <b>2019</b> , 84, 15958-15971.
46	Total syntheses of dehydrobotrydienal, dehydrobotrydienol and 10-oxodehydrodihydrobotrydial	Zichun Zhang, Dandan Zhao, Yingdong He, Zhen Yang*, Jianxian Gong*	<i>Chin. Chem. Lett.</i> <b>2019</b> , 30, 1503-1505.
47	Pd-Catalyzed Decarboxylative Allylation for Stereoselective Syntheses of Allylic Alcohols bearing a Quaternary Carbon Center	Linlin Shi, Yingdong He, Jianxian Gong*, Zhen Yang*	<i>Asian J. Org. Chem.</i> <b>2019</b> , 8, 823-827.
48	Stereoselective Pd-Catalyzed Decarboxylative Allylation: Assembly of Highly Functionalized Allylic Amines Bearing a Quaternary Center	Linlin Shi, Yingdong He, Yuanyuan Chang, Nan Zheng, Zhen Yang*, Jianxian Gong*	<i>Org. Lett.</i> <b>2019</b> , 21, 3077-3080.
49	The Journey of Schinortriterpenoid Total Syntheses	Zhen Yang*	<i>Acc. Chem. Res.</i> <b>2019</b> , 52, 480-491.
50	Diastereoselective Construction of All-Carbon Quaternary Stereocenters via Intramolecular Oxidative Cross-Coupling Reaction	Wei Chen, Renyu Guo, Jianxian Gong*, Zhen Yang*	<i>Chin. J. Org. Chem.</i> <b>2019</b> , 39, 238-248.
51	Concise Synthesis of Open-Cage Fullerenes for Oxygen Delivery	Zishuo Zhou, Hongfei Han, Zijing Chen, Rui Gao, Zhen Liu, Jie Su, * Nana Xin, Xiaobing Yang, and Liangbing Gan*	<i>Angew. Chem. Int. Ed.</i> <b>2019</b> , 58, 17690-17694.
52	Molecular Containers Derived from [60]Fullerene through Peroxide Chemistry	Liangbing Gan*	<i>Acc. Chem. Res.</i> <b>2019</b> , 52, 1793-1801
53	Selective Addition of Palladium on the Rim of Open-Cage Fullerenes To Form Mononuclear and Dinuclear Complexes	Hao Zhang, Zishuo Zhou, Le Yang, Jie Su,* Peng Jin, Liangbing Gan*	<i>Organometallics</i> <b>2019</b> , 38, 3139-3143
54	Synthesis of an open-cage fullerene-based unidirectional H-bonding network and its coordination with titanium	Hao Zhang, Jie Su, * Changwang Pan, Xing Lu,* Liangbing Gan*	<i>Org. Chem. Front.</i> <b>2019</b> , 6, 1397-1402
55	Synthesis of Open-Cage [60]Fullerenes with Five Carbonyl Groups on the Rim of the 15-Membered Orifice	Dan Xu, Dazhi Yang, Jie Su,* Liangbing Gan*	<i>ChemPlusChem.</i> <b>2019</b> , 84, 608-612
56	Cobalt-Catalyzed Intermolecular Hydrofunctionalization of Alkenes:	Xiao-Le Zhou, Fan Yang, Han-Li Sun, Yun-Nian Yin, Wei-Ting	<i>J. Am. Chem. Soc.</i> <b>2019</b> , 141, 7250

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58	Understanding Regioselectivities of Corey–Chaykovsky Reactions of Dimethylsulfoxonium Methylide (DMSOM) and Dimethylsulfonium Methylide (DMSM) toward Enones: A DFT Study.	Yu Xiang, Xing Fan, Pei-Jun Cai, Zhi-Xiang Yu*	<i>Eur. J. Org. Chem.</i> <b>2019</b> , 582-590.
59	Type-II Pauson-Khand reaction of 1,8-enyne in the attempt of building 7/5 ring of (-)-caribenol A and DFT understanding	Yang Wang, Kang Liu, Zhi-Xiang Yu*, Yanxing Jia*	<i>Tetrahedron Lett.</i> <b>2019</b> , 60, 151001.
60	Asymmetric Synthesis of Azepine-Fused Cyclobutanes from Yne-Methylenecyclopropanes Involving Cyclopropanation/C–C Cleavage/Wagner–Meerwein Rearrangement and Reaction Mechanism	Chen-Long Li and Zhi-Xiang Yu*	<i>J. Org. Chem.</i> <b>2019</b> , 84, 9913-9928.
61	Divergent Synthesis of Oxa-Cyclic Nitrones through Gold(I)-Catalyzed 1,3-Azaprotio Transfer of Propargylic $\alpha$ -Ketocarboxylate Oximes: Experimental and DFT Studies	Chunhong Wang, Qi Cui, Zhixin Zhang, Zhu-Jun Yao, Shaozhong Wang*, and Zhi-Xiang Yu*	<i>Chem. Eur. J.</i> <b>2019</b> , 25, 9821-9826.
62	Synthesis of Quaternary Carbon-Centered Benzoindolizidinones via Novel Photoredox-Catalyzed Alkene Aminoarylation: Facile Access to Tylophorine and Analogues	Chao Zhang, Yi Wang, Yugang Song, Hongying Gao, Yonghui Sun, Xiuyun Sun, Yiqing Yang, Ming He, Zimo Yang, Lingpeng Zhan, Zhi-Xiang Yu*, and Yu Rao*	<i>CCS Chem.</i> <b>2019</b> , 1, 352-364.
63	A newly designed heterodiene and its application to construct six-membered heterocycles containing an N–O bond	Wenzhi Ji, Chen-Long Li, Hui Chen, Zhi-Xiang Yu* and Xuebin Liao*	<i>Chem. Commun.</i> <b>2019</b> , 55, 12012.
64	Rh-Catalyzed Cycloisomerization of 1,7-Ene-Dienes to Synthesize trans-Divinylpiperidines: A Formal Intramolecular Addition Reaction of Allylic C–H Bond into Dienes	Qi Cui, Wei Liao, Zi-You Tian, Qian Li, and Zhi-Xiang Yu*	<i>Org. Lett.</i> <b>2019</b> , 21, 7692-7696.
65	NHC-Boryl Radical Catalysis for Cycloisomerization With C–C Triple Bond Reorganization	Ai-Qing Xu, Feng-Lian Zhang, Tian Ye, Zhi-Xiang Yu*, and Yi-Feng Wang*	<i>CCS Chem.</i> <b>2019</b> , 1, 504–512.
66	A newly designed heterodiene and its application to construct six-membered heterocycles containing an N–O bond	Wenzhi Ji, Chen-Long Li, Hui Chen, Zhi-Xiang Yu* and Xuebin Liao*	<i>Chem. Commun.</i> , <b>2019</b> , 55, 12012-12015.
67	An on-site bacterial detection strategy based on broad-spectrum antibacterial epsilon-polylysine functionalized magnetic nanoparticles combined with a portable fluorometer	Xi Wu <sup>1</sup> Tiancheng Lai, Jiezhong Jiang, Yurou Ma, Guangyu Tao, Feng Liu, Na Li*	<i>Microchimica Acta</i> <b>2019</b> , 186, 526.
68	Bifunctional Cleavable Probe for In-situ Multiplexed Glycan Detection and Imaging Using Mass Spectrometry	Wen Ma, Shuting Xu, Honggang Nie, Bingyang Hu, Yu Bai*, Huwei Liu	<i>Chem. Sci.</i> <b>2019</b> , 10, 2320-2325.
69	Ultrasensitive Ambient Mass Spectrometry Immunoassays: Multiplexed Detection of Proteins in	Shuting Xu, Wen Ma, Yu Bai*, Huwei Liu	<i>J. Am. Chem. Soc.</i> <b>2019</b> , 141, 72-75.

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70	A flexible and multifunctional metal-organic framework as a matrix for analysis of small molecules using laser desorption/ionization mass spectrometry	Wen Ma, Shuting Xu, Wanpeng Ai, Cheng Lin, Yu Bai*, Huwei Liu	<i>Chem Commun</i> , <b>2019</b> , 55, 6898-6901.
71	Mass Spectrometry Methods for In Situ Analysis of Clinical Biomolecules	Wen Ma, Shuting Xu, Huwei Liu, Yu Bai*	<i>Small Methods</i> , <b>2019</b> , 1900407.
72	Hybrid methods of surface plasmon resonance coupled to mass spectrometry for biomolecular interaction analysis	Jinjuan Xue, Yu Bai and Huwei Liu*	<i>Anal Bioanal Chem</i> , <b>2019</b> , 411, 3721-3729.
73	Recent advances in ambient mass spectrometry imaging	Jinjuan Xue, Yu Bai*, Huwei Liu	<i>TRAC-Trends in Anal Chem</i> , 120, 115659.
74	Ultrasensitive Determination of Rare Modified Cytosines Based on Novel Hydrazine Labeling Reagents	Yue Yu, Fang Yuan, Xiao-Hui Zhang, Ming-Zhe Zhao, Ying-Lin Zhou,* Xin-Xiang Zhang	<i>Anal. Chem.</i> <b>2019</b> , 91, 13047-13053.
75	The Exploration of a New Stable G-Triplex DNA and Its Novel Function in Electrochemical Biosensing	Ling-Li Zhao, Ting Cao, Qian-Yu Zhou, Xiao-Hui Zhang, Ying-Lin Zhou*, Li-Jiang Yang*, Xin-Xiang Zhang	<i>Anal. Chem.</i> <b>2019</b> , 91, 16, 10731-10737.
76	Ultrasensitive and simultaneous determination of RNA modified nucleotides by sheathless interfaced capillary electrophoresis–tandem mass spectrometry	Yue Yu, Si-Hao Zhu, Fang Yuan, Xiao-Hui Zhang, Yan-Ye Lu, Ying-Lin Zhou*, Xin-Xiang Zhang*	<i>Chem. Comm.</i> <b>2019</b> , 55, 7595-7598.
77	A simple mix-and-read bacteria detection system based on a DNzyme and a molecular beacon, Chemical Communications	Ting Cao, Yong-Cheng Wang, Ling-Li Zhao, Ye Wang, Ye Tao, John A. Heyman*, David A. Weitz*, Ying-Lin Zhou*, Xin-Xiang Zhang*	<i>Chem. Commun.</i> <b>2019</b> , 55, 7358-7361.
78	A facilely synthesized glutathione-functionalized silver nanoparticle-grafted covalent organic framework for rapid and highly efficient enrichment of N-linked glycopeptides	Yu-Fang Ma, Li-Juan Wang, Ying-Lin Zhou*, Xin-Xiang Zhang*	<i>Nanoscale</i> , <b>2019</b> , 11, 5526-5534.
79	Rapid Quantitative Fluorescence Detection of Copper Ions with Disposable Microcapsule Arrays Utilizing Functional Nucleic Acid Strategy	En-Qi He, Liang-Yuan Cai, Feng-Yi Zheng, Qian-Yu Zhou, Dan Guo, Ying-Lin Zhou*, Xin-Xiang Zhang*, Zhi-Hong Li*	<i>Scientific Reports</i> , <b>2019</b> , 9, 36.
80	A disposable microcapsule array chip fabricated by ice printing combined	En-Qi He, Ting Cao, Liang-Yuan Cai, Dan Guo, Ying-Lin	<i>RSC Advances</i> , <b>2018</b> , 8, 39561-39566.

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81	5-Carboxylcytosine is resistant towards phosphodiesterase I digestion: implications for epigenetic modification quantification by mass spectrometry	Fang Yuan, Ying Bi, Jia-Yuan Zhang, Ying-Lin Zhou, Xin-Xiang Zhang*, Chun-Xiao Song*	<i>RSC Adv.</i> <b>2019</b> , <i>9</i> , 29010-29014.
82	Bisulfite-free and base-resolution analysis of 5-methylcytidine and 5-hydroxymethylcytidine in RNA with peroxotungstate	Fang Yuan, Ying Bi, Paulina Siejka-Zielinska, Ying-Lin Zhou, Xin-Xiang Zhang*, Chun-Xiao Song*	<i>Chem. Commun.</i> <b>2019</b> , <i>55</i> , 2328-2331.
83	基因兴奋剂检测方法研究进展	王嘉禹, 赵美萍*	<i>分析科学学报</i> , <b>2019</b> , <i>35</i> , 759-765.
84	Bio-Inspired NanoVilli Chips for Enhanced Capture of Tumor-Derived Extracellular Vesicles: Toward Non-Invasive Detection of Gene Alterations in Non-Small Cell Lung Cancer	Jiantong Dong, Ryan Y. Zhang, Na Sun, Matthew Smalley, Zipeng Wu, Anqi Zhou, Shih-Jie Chou, Yu Jen Jan, Peng Yang, Lirong Bao, Dongping Qi, Xinghong Tang, Patrick Tseng, Yue Hua, Dianwen Xu, Rueihung Kao, Meng Meng, Xirun Zheng, Ying Liu, Tatyana Vagner, Xiaoshu Chai, Dongjing Zhou, Mengyuan Li, Shih-Hwa Chiou, Guangjuan Zheng, Dolores Di Vizio, Vatche G. Agopian, Edwin Posadas, Steven J. Jonas, Shin-Pon Ju,* Paul S. Weiss,* Meiping Zhao,* Hsian-Rong Tseng,* and Yazhen Zhu*	<i>ACS Appl. Mater. Interfaces</i> <b>2019</b> , <i>11</i> , 13973-13983.
85	Thermodynamics and kinetics guided probe design for uniformly sensitive and specific DNA hybridization without optimization	Xin Chen, Na Liu, Liquan Liu, Wei Chen, Na Chen, Meng Lin, Jiaju Xu, Xing Zhou, Hongbo Wang*, Meiping Zhao*, Xianjin Xiao*	<i>Nat. Commun.</i> <b>2019</b> , <i>10</i> , 4675.
86	Covalent chemistry on nanostructured substrates enables noninvasive quantification of gene rearrangements in circulating tumor cells	Jiantong Dong, Yu Jen Jan, Ju Cheng, Ryan Y. Zhang, Meng Meng, Matthew Smalley, Pin-Jung Chen, Xinghong Tang, Patrick Tseng, Lirong Bao, Tzu-Yang Huang, Dongjing Zhou, Yupin Liu, Xiaoshu Chai, Haibo Zhang, Anqi Zhou, Vatche G. Agopian, Edwin M. Posadas, Jing-Jong Shyue, Steven J. Jonas, Paul S. Weiss, Mengyuan Li*, Guangjuan Zheng*, Hsiao-hua Yu*, Meiping Zhao*, Hsian-Rong Tseng*, Yazhen Zhu*	<i>Sci. Adv.</i> <b>2019</b> , <i>5</i> , eaav9186.
87	荧光分析法测定人体血液样品中脱	王嘉禹, 赵美萍*	<i>北京大学学报 (医</i>

	嘌呤/脱嘧啶核酸内切酶 (APE1) 的活性		学版), <b>2019</b> , 51, 487-492.
88	以多巴胺为功能单体的生物大分子印迹聚合物	李梦圆, 赵慕华, 翟筠秋, 赵美萍*	<i>科学通报</i> , <b>2019</b> , 64, 1321-1329.
89	Time-resolved protein activation by proximal decaging in living systems	Wang J, Liu Y, Liu Y, Zheng S, Wang X, Zhao J, Yang F, Zhang G, Wang C*, Chen P*	<i>Nature</i> <b>2019</b> , 569, 509-513.
90	Copper-Triggered Bioorthogonal Cleavage Reactions for Reversible Protein and Cell Surface Modifications	Wang X, Liu Y, Fan X, Wang J, William Shu Ching Ngai, Zhang H, Li J, Zhang G, Lin J*, Chen P*	<i>J. Am. Chem. Soc.</i> <b>2019</b> , 141, 17133-17141.
91	Enzyme-mediated intercellular proximity labeling for detecting cell-cell interactions	Ge Y, Chen L, Liu S, Zhao J, Zhang H, Chen P*	<i>J. Am. Chem. Soc.</i> <b>2019</b> , 141, 1833-1837.
92	<i>Legionella</i> effector SetA as a general O-glucosyltransferase for eukaryotic proteins	Ling Gao, Qitao Song, Hao Liang, Yuntao Zhu, Tiantian Wei, Na Dong, Junyu Xiao, Feng Shao, Luhua Lai and Xing Chen	<i>Nat. Chem. Biol.</i> <b>2019</b> , 15, 213-216.
93	Gap-Junction-Dependent Labeling of Nascent Proteins in Multicellular Networks	Yaya Li, Weibing Liu, Qi Tang, Xinqi Fan, Yi Hao, Ling Gao, Zefan Li, Bo Cheng, and Xing Chen	<i>ACS Chem. Biol.</i> <b>2019</b> , 14, 182-185.
94	Assessing the viability of transplanted gut microbiota by sequential tagging with D-amino acid-based metabolic probes	Wei Wang, Liyuan Lin, Yahui Du, Yanling Song, Xiaoman Peng, Xing Chen & Chaoyong James Yang	<i>Nat. Comm.</i> <b>2019</b> , 10, 1317.
95	S-glycosylation-based cysteine profiling reveals regulation of glycolysis by itaconate	Wei Qin, Ke Qin, Yanling Zhang, Wentong Jia, Ying Chen, Bo Cheng, Linghang Peng, Nan Chen, Yuan Liu, Wen Zhou, Yan-Ling Wang, Xing Chen and Chu Wang	<i>Nat. Chem. Biol.</i> <b>2019</b> , 15, 983-991.
96	Next-generation unnatural monosaccharides reveal that ESRRB O-GlcNAcylation regulates pluripotency of mouse embryonic stem cells	Yi Hao, Xinqi Fan, Yujie Shi, Che Zhang, De-en Sun, Ke Qin, Wei Qin, Wen Zhou & Xing Chen	<i>Nat. Comm.</i> <b>2019</b> , 10, 4065.
97	Structural insights into FTO's catalytic mechanism for the demethylation of multiple RNA substrates.	Xiao Zhang, Lian-Huan Wei, Yuxin Wang, Yu Xiao, Jun Liu, Wei Zhang, Ning Yan, Gubu Amu, Xinjing Tang, Liang Zhang*, Guifang Jia*	<i>Proc. Natl Acad. Sci. USA</i> <b>2019</b> , 116, 2919-2924.
98	Development of an Effective Fluorescence Probe for Discovery of Aminopeptidase Inhibitors to Suppress Biofilm Formation	Tianhu Zhao, Jian Zhang, Maomao Tang, Luyan Z. Ma*, Xiaoguang Lei*	<i>J. Antibiot.</i> <b>2019</b> , 72, 461-468
99	Enantioselective Total Synthesis of (+)-Jungermatrobrunin A.	Jinbao Wu, Yuichiro Kadonaga, Benke Hong, Jin Wang, Xiaoguang Lei*	<i>Angew. Chem. Int. Ed.</i> <b>2019</b> , 58, 10879-10883.
100	Photoinduced Skeletal Rearrangements Reveal Radical-Mediated Synthesis of Terpenoids	Benke Hong, Weilong Liu, Jin Wang, Jinbao Wu, Yuichiro Kadonaga, Pei-Jun Cai, Hong-Xiang Lou, Zhixiang Yu, Houhua Li*, Xiaoguang Lei*	<i>Chem.</i> <b>2019</b> , 6, 1671-1681.



101	Divergent Total Synthesis of Chaetoglins C to F	Yaocheng Shi, Zhi Xu, Renxiang Tan, Xiaoguang Lei*	<i>J. Org. Chem.</i> <b>2019</b> , 84, 8766-8770.
102	<i>De novo</i> synthesis, structural assignment and biological evaluation of pseudopaline, a metallophore produced by <i>Pseudomonas aeruginosa</i>	Jian Zhang, Tianhu Zhao, Rongwen Yang, Ittipon Siridechakorn, Sanshan Wang, Qianqian Guo, Yingjie Bai, Hong C. Shen, Xiaoguang Lei*	<i>Chem. Sci.</i> <b>2019</b> , 10, 6635-6641.
103	Improving mass spectrometry analysis of protein structures with arginine-selective chemical cross-linkers	Alexander X. Jones, Yong Cao, Yu-Liang Tang, Jian-Hua Wang, Yue-He Ding, Hui Tan, Zhen-Lin Chen, Run-Qian Fang, Jili Yin, Rong-Chang Chen, Xing Zhu, Yang She, Niu Huang, Feng Shao, Keqiong Ye, Rui-Xiang Sun, Si-Min He, Xiaoguang Lei* & Meng-Qiu Dong*	<i>Nat. Comm.</i> <b>2019</b> , 10, 3911.
104	MRGPRX4 is a bile acid receptor for human cholestatic itch.	Huasheng Yu, Tianjun Zhao, Simin Liu, Qinxue Wu, Omar Johnson, Zhaofa Wu, Zihao Zhuang, Yaocheng Shi, Luxin Peng, Renxi He, Yong Yang, Jianjun Sun, Xiaoqun Wang, Haifeng Xu, Zheng Zeng, Peng Zou, Xiaoguang Lei, Wenqin Luo*, Yulong Li*	<i>eLife</i> <b>2019</b> , 8, e48431.
105	Staphylopine and pseudopaline dehydrogenase from bacterial pathogens catalyze reversible reactions and produce stereospecific metallophores	Jeffrey S. McFarlane, Jian Zhang, Sanshan Wang, Xiaoguang Lei, Graham R. Moran, and Audrey L. Lamb	<i>J. Biol. Chem.</i> <b>2019</b> , 294, 17988-18001.
106	Inhibition of dual-specificity tyrosine phosphorylation-regulated kinase 2 perturbs 26S proteasome-addicted neoplastic progression	Sourav Banerjee, Tiantian Wei, Jue Wang, Jenna J. Lee, Haydee L. Gutierrez, Owen Chapman, Sandra E. Wiley, Joshua E. Mayfield, Vasudha Tandon, Edwin F. Juarez, Lukas Chavez, Ruqi Liang, Robert L. Sah, Caitlin Costello, Jill P. Mesirov, Laureano de la Vega, Kimberly L. Cooper, Jack E. Dixon*, Junyu Xiao*, and Xiaoguang Lei*	<i>Proc. Natl Acad. Sci. USA</i> <b>2019</b> , 116, 24881-24891.
107	Quantitative and site-specific chemoproteomic profiling of targets of acrolein	Ying Chen; Yuan Liu; Xiaomeng Hou; Zi Ye; Chu Wang*	<i>Chemical Research in Toxicology</i> <b>2019</b> , 32 (3), 467-473.
108	A chemoselective reaction between protein n-homocysteinylation and azides catalyzed by heme(ii)	Nan Chen; Zeyu Qiao; Chu Wang*	<i>Chem. Comm.</i> <b>2019</b> , 55, 3654-3657.
109	Site-specific chemoproteomic profiling of targets of glyoxal	Ying Chen; Wei Qin; Zehua Li; Zhihao Guo; Yuan Liu; Tong Lan; Chu Wang*	<i>Future Medicinal Chemistry</i> <b>2019</b> , 11, 2979-2987.
110	Chemoproteomic profiling of protein-metabolite interactions	Wei Qin; Fan Yang; Chu Wang*	<i>Current Opinion in Chemical Biology</i> <b>2019</b> , 54, 28-36.
111	Expanding APEX2 Substrates for	Ying Zhou, Gang Wang,	<i>Angew. Chem. Int.</i>

	Proximity - Dependent Labeling of Nucleic Acids and Proteins in Living Cells	Pengchong Wang, Zeyao Li, Tieqiang Yue, Jianbin Wang,* Peng Zou*	<i>Ed. Engl.</i> <b>2019</b> , 58, 11763-11767.
112	Mapping spatial transcriptome with light-activated proximity-dependent RNA labeling	Pengchong Wang, Wei Tang, Zeyao Li, Ying Zhou, Ran Li, Tianyu Xiong, Jianbin Wang,* Peng Zou*	<i>Nat. Chem. Biol.</i> <b>2019</b> , 15, 1110-1119.
113	Imaging neuronal activity with fast and sensitive red-shifted electrochromic FRET indicators	Yongxian Xu, Mengying Deng, Shu Zhang, Junqi Yang, Luxin Peng, Jun Chu,* Peng Zou*	<i>ACS Chem. Neurosci.</i> <b>2019</b> , 10, 4768-4775.