

2016 年度实验室发表论文目录

序号	论文题目	作者	期刊及年卷页
1	Optimized Tetrazine Derivatives for Rapid Bioorthogonal Decaging in Living Cells	X. Fan, Y. Ge, F. Lin, Y. Yang, G. Zhang, W. Ngai, Z. Lin, S. Zheng, J. Wang, J. Zhao, J. Li, P. Chen*	<i>Angew. Chem. Int. Ed.</i> 2016 , <i>55</i> , 14046-14050.
2	Genetically Encoded Protein Photocrosslinker with a Transferable Mass Spectrometry-Identifiable Label	Y. Yang, D. He, S. Zhang, S. Lin, S. Dai, H. Song, R. Meng, C. Wang,* P. Chen*	<i>Nat. Commun.</i> 2016 , <i>7</i> , 12299.
3	Development and Application of Bond Cleavage Reactions in Bioorthogonal Chemistry	J. Li, P. Chen*	<i>Nat. Chem. Biol.</i> 2016 , <i>12</i> , 129-137
4	Genetically Encoded Photocrosslinkers for Identifying and Mapping Protein-Protein Interactions in Living Cells	Y. Yang, H. Song, P. Chen*	<i>IUBMB Life</i> 2016 , <i>68</i> , 879-886.
5	Nitrilase-Activatable Noncanonical Amino Acid Precursors for Cell-Selective Metabolic Labeling of Proteomes	Z. Li, Y. Zhu, Y. Sun, K. Qin, W. Liu, W. Zhou, X. Chen	<i>ACS Chem. Biol.</i> 2016 , <i>11</i> , 3273-3277.
6	Metabolic Labeling and Imaging of N-Linked Glycans in Arabidopsis Thaliana	Zhu, Y.; Wu, J.; Chen, X.	<i>Angew. Chem. Int. Ed</i> 2016 , <i>55</i> , 9301-9305.
7	In Vivo Metabolic Labeling of Sialoglycans in the Mouse Brain By Using A Liposome-Assisted Bioorthogonal Reporter Strategy	R. Xie, L. Dong, Y. Du, Y. Zhu, R. Hua, C. Zhang, X. Chen	<i>Proc. Natl. Acad. Sci. USA</i> 2016 , <i>113</i> , 5173-5178.
8	Near-Infrared Light Activation of Proteins Inside Living Cells Enabled by Carbon Nanotube-Mediated Intracellular Delivery	Li, H.; Fan, X.; Chen, X.	<i>ACS Appl. Mater. Interfaces</i> 2016 , <i>8</i> , 4500-4507.
9	Metabolic Remodeling of Cell-Surface Sialic Acids: Principles, Applications, and Recent Advances	B. Cheng, R. Xie, L. Dong, X. Chen	<i>ChemBioChem</i> 2016 , <i>17</i> , 11-27.
10	Fullerene-Based Macro-Heterocycle Prepared through Selective Incorporation of Three N and Two O Atoms into C60	Yanbang Li, Gaihong Zhang, Dian Wang, Beidi Xu, Dan Xu, Ning Lou, Liangbing Gan*	<i>Angew. Chem. Int. Ed.</i> 2016 , <i>55</i> , 14590-14593
11	Synthesis of C58 Open-Cage Fullerene Derivatives	Yuming Yu, Liang Xu, Xinchun Huang, Sisi Liang, Liangbing Gan*	<i>Synlett</i> 2016 , <i>27</i> , 2123-2127
12	Synthesis of Isomerically Pure Multi-aniline C60 Adducts with	Sisi Liang, Liang Xu, and Liangbing Gan*	<i>Eur. J. Org. Chem.</i> 2016 , 3070-3075

	Cyclopentadienyl Addition Pattern		
13	Preparation of Azafullerene C ₅₉ NR ₅ and Fullerene Derivative C ₆₀ NAr ₅ with a Pyridine Moiety on the Cage Skeleton	Ning Lou, Yanbang Li, Chengxing Cui, Yajun Liu, and Liangbing Gan*	<i>Org. Lett.</i> 2016 , <i>18</i> , 2236–2239
14	Selective Multiamination of C ₇₀ Leading to Curved pi Systems with 60, 58, 56, and 50 pi Electrons	Yanbang Li, Dan Xu, Liangbing Gan*	<i>Angew. Chem. Int. Ed.</i> 2016 , <i>55</i> , 2483-2487
15	New edges of RNA adenosine methylation modifications	Ye Wang, Guifang Jia	<i>Genomics Proteomics Bioinformatics</i> 2016 , <i>14</i> , 172-175
16	RNA 表观遗传修饰: N6-甲基腺嘌呤	张笑、贾桂芳	<i>遗传</i> , 2016 , <i>38(4)</i> : 275-88
17	Exploring the Binding Proteins of Glycolipids with Bifunctional Chemical Probes	X. Liu, T. Dong, Y. Zhou, N. Huang, X. Lei*	<i>Angew. Chem. Int. Ed.</i> 2016 , <i>55</i> , 14330-14334
18	Trifunctional Cross-Linker for Mapping Protein-Protein Interaction Networks and Comparing Protein Conformational States	D. Tan, Q. Li, M. Zhang, C. Liu, C. Ma, P. Zhang, Y. Ding, S. Fan, L. Tao, B. Yang, X. Li, S. Ma, J. Liu, B. Feng, X. Liu, H. Wang, S. He, N. Gao, K. Ye, M. Dong,* X. Lei*	<i>eLife</i> 2016 ; 5:e12509
19	Synthesis and Mode of Action of Oligomeric Sesquiterpene Lactones	C. Li, A. Jones, X. Lei*	<i>Nat. Prod. Rep.</i> 2016 , <i>33</i> , 602-611.
20	Syntheses of [1,2,4]triazolo[1,5- <i>a</i>]benzazoles Enabled by the Transition-Metal-Free Oxidative N-N Bond Formation	E. Shang, J. Zhang, J. Bai, Z. Wang, X. Li, B. Zhu, X. Lei*	<i>Chem. Commun.</i> 2016 , <i>52</i> , 7028-7031.
21	Total Synthesis and Structural Reassignment of Aspergillomarasmine A	D. Liao, S. Yang, J. Wang, J. Zhang, B. Hong, F. Wu, X. Lei*	<i>Angew. Chem. Int. Ed.</i> 2016 , <i>55</i> , 4291-4295.
22	Scalable Total Synthesis of Jungermannones B and C	W. Liu, H. Li, P. Cai, Z. Wang, Z.-X. Yu, X. Lei*	<i>Angew. Chem. Int. Ed.</i> 2016 , <i>55</i> , 3112-3116.
23	Natural Product Kongensin A is a Non-Canonical HSP90 Inhibitor that Blocks RIP3-dependent Necroptosis	D. Li, C. Li, L. Li, S. Chen, L. Wang, Q. Li, X. Wang, X. Lei,* Z. Shen*	<i>Cell Chem. Biol.</i> 2016 , <i>23</i> , 257-266.
24	Access to the 2 <i>H</i> -tetrahydro-4, 6-dioxo-1, 2-oxazine Ring System from Nitron via a Tandem Nucleophilic Addition and Transesterification Re-action	S. Yang, D. Liao, X. Tian, X. Lei*	<i>Org. Lett.</i> 2016 , <i>18</i> , 376-379.

25	Enantioselective Total Syntheses of Kuwanon X, Kuwanon Y and Kuwanol A	L. Gao, J. Han, X. Lei*	<i>Org. Lett.</i> 2016 , <i>18</i> , 360-363.
26	Pterisolic Acid B is a Nrf2 Activator by Targeting C171 within Keap1-BTB Domain	T. Dong, W. Liu, Z. Shen, L. Li, S. Chen, X. Lei*	<i>Sci. Rep.</i> 2016 , <i>6</i> , 19231.
27	Studies towards the Synthesis of the Functionalized C3-C14 Decalin Framework of Alchivemycin A	K. Ma, D. Liao, S. Yang, X. Li, X. Lei*	<i>Org. Chem. Front.</i> 2016 , <i>3</i> , 251-258.
28	Chiral Boron Complex-Promoted Asymmetric Diels-Alder Cycloaddition and Its Application in Natural Product Synthesis	X. Li, J. Han, A. Jones, X. Lei*	<i>J. Org. Chem.</i> 2016 , <i>81</i> , 458-468.
29	Nonamplification Sandwich Assay Platform for Sensitive Nucleic Acid Detection Based on Aunps Enumeration with the Dark-Field Microscope	Tian Li, Xiao Xu, Guoqing Zhang, Ruoyun Lin, Yang Chen, Chenxi Li, Feng Liu, and Na Li*	<i>Anal. Chem.</i> 2016 , <i>88</i> , 4188-4191.
30	The Fast Detection of Streptavidin Based on the Initial Reaction Rate of the Binding-Induced DNA Strand-Displacement Reaction	Chenxi Li, Ruoyun Lin, Tian Li, Feng Liu and Na Li*	<i>Anal. Methods</i> 2016 , <i>8</i> , 6701-6704
31	Modulating Fluorescence Anisotropy of Dye-Labeled DNA without Involving Mass Amplification	Xiaojing Pei, Hongduan Huang, Yang Chen, Chenxi Li, Feng Liu, and Na Li*	<i>Talanta</i> 2016 , <i>154</i> , 567-573.
32	Modulating the DNA Strand-Displacement Kinetics with the One-Sided Remote Toehold Design for Differentiation of Single-Base mismatched DNA	Chenxi Li, Yixin Li, Yang Chen, Ruoyun Lin, Tian Li, Feng Liu and Na Li*	<i>RSC Adv.</i> 2016 , <i>6</i> , 74913-74916.
33	Pre-Incubation of Auric Acid with DNA Is Unnecessary for the Formation of DNA-Templated Gold Nanoclusters	Yang Chen, Guangyu Tao, Ruoyun Lin, Xiaojing Pei, Feng Liu, and Na Li*	<i>Chem.-an Asian J.</i> 2016 , <i>11</i> , 1677-1681.
34	A Fluorescence Anisotropy Study of the DNA Hybridization Reaction Mediated by Formation of the C-Ag ⁺ -C Structure	Xinying Hong, Hongduan Huang, Mingxing Chen, Feng Liu, and Na Li*	<i>Anal. Methods</i> 2016 , <i>8</i> , 3156-3162.
35	Monolith Dip-it: a Bifunctional Device for Improving the Sensitivity of Direct Analysis in Real Time Mass Spectrometry	Xianjiang Li, Ze Li, Xin Wang, Honggang Nie, Yiding Zhang, Yu Bai,* Huwei Liu*,	<i>Analyst</i> , <i>141</i> , 2016 , 4947-4952
36	Recent Advances in Applications of Nanomaterials for Sample Preparation	Linnan Xu, Xiaoyue Qi, Xianjiang Li, Yu Bai* and Huwei Liu	<i>Talanta</i> 2016 , <i>146</i> , 714-726.
37	Metabolomic Analysis of Mouse	Sensen Shen, Rui Weng,	<i>Sci. Rep.</i> 2016 , doi:

	Embryonic Fibroblast Cells in Response to Autophagy induced by Acute Starvation	Linnan Li, Xinyuan Xu, Yu Bai* and Huwei Liu	10.1038/srep34075
38	Lipidomic Profiling of Tryptophan Hydroxylase 2 Knockout Mice Reveals Novel Lipid Biomarkers Associated with Serotonin Deficiency	Rui Weng, Sensen Shen, Casey Burton, Li Yang, Honggang Nie, Yonglu Tian, Yu Bai,* Huwei Liu	<i>Anal. Bioanal. Chem.</i> 2016 , 408, 2963-2973.
39	Hydrazide Functionalized Monodispersed Silica Microsphere: a Novel Probe with Tunable Selectivity for Versatile Enrichment of Phosphopeptides with Different Numbers of Phosphorylation Sites in MS Analysis	Linnan Xu, Wen Ma, Sensen Shen, Liping Li, Yu Bai* and Huwei Liu	<i>Chem. Commun.</i> 2016 , 52, 1162-1165
40	Recent Advances in Lipidomics for Disease Research	Li Yang, Min Li, Yabing Shan, Sensen Shen, Yu Bai, Huwei Liu*	<i>J. Sep. Sci.</i> 2016 , 39, 38-50.
41	A Combined Experimental and Theoretical Study on the Extraction of Uranium by Amino-Derived Metal Organic Frameworks through Post-Synthetic Strategy	Linnan Li, Wen Ma, Sensen Shen, Hexiang Huang, Yu Bai, and Huwei Liu*	<i>ACS Appl. Mater. Interfaces</i> 2016 , 8, 31032-31041.
42	Dielectric Barrier Discharge Ionization based Interface for Online Coupling Surface Plasmon Resonance with Mass Spectrometry	Yiding Zhang, Shuting Xu, Luhong Wen, Yu Bai*, Li Niu, Daqian Song, Huwei Liu*	<i>Analyst</i> 2016 , 141, 3343-3348.
43	Post-synthetic Modification of an Amino-functionalized Metal-organic Framework for Highly Efficient Enrichment of N-Linked Glycopeptides	Wen Ma, Linnan Xu, Ze Li, Yunlong Sun, Yu Bai* and Huwei Liu	<i>Nanoscale</i> 2016 , 8, 10908-10912.
44	Study on the Interaction of Uranyl with Sulfated β -Cyclodextrin by Affinity Capillary Electrophoresis and Molecular Dynamics Simulation	Linnan Li, Yiding Zhang, Xianjiang Li, Sensen Shen, Hexiang Huang, Yu Bai and Huwei Liu*	<i>Electrophoresis</i> , 2016 , 37, 2567-2573.
45	NiCoMnO ₄ : A Bifunctional Affinity Probe for Histagged Protein Purification and Phosphorylation Sites Recognition	Xiaoyue Qi, Long Chen, Chaoqun Zhang, Xinyuan Xu, Yiding Zhang, Yu Bai* and Huwei Liu*	<i>ACS Applied Materials & Interfaces</i> 2016 , 8, 18675-18683.
46	An Interface for Online Coupling Capillary Electrophoresis to Dielectric Barrier Discharge Ionization Mass Spectrometry	Yiding Zhang, Wanpeng Ai, Yu Bai*, Yinglin Zhou, Luhong Wen, Xinxiang Zhang and Huwei Liu*	<i>Anal. Bioanal. Chem.</i> 2016 , 408, 8655-8661
47	Magnetization of 3-Dimensional	Xiaoyue Qi, Cuilan	<i>J. Chromatography A</i> ,

	Homochiral Metal-organic Frameworks for Efficient and Highly Selective Capture of Phosphopeptides	Chang, Xinyuan Xu, Yiding Zhang, Yu Bai, Huwei Liu*	2016 , 1468, 49–54
48	Polymer-based Monolithic Column with Incorporated Chiral Metal-organic Framework for Enantioseparation of Methyl Phenyl Sulfoxide Using Nano-liquid Chromatography.	Xin Wang, Alexandros Lamprou, Frantisek Svec,* Yu Bai, Huwei Liu*	<i>J. Sep. Sci.</i> 2016 , 39, 4544–4548
49	Rapid Screening and Quantification of Glucocorticoids in Essential Oils Using Direct Analysis in Real Time Mass Spectrometry	Jialing Zhang, Ze Li, Zhigui Zhou, Yu Bai* and Huwei Liu*	<i>Rapid Commun. Mass Spectrom.</i> 2016 , 30 (Suppl. 1), 133–140
50	Online Coupling Techniques in Ambient Mass Spectrometry	Shuting Xu, Yiding Zhang, Linnan Xu, Yu Bai* and Huwei Liu*	<i>Analyst</i> 2016 , 141, 5913-5921.
51	Enantioselective Synthesis of Iboga Alkaloids and Vinblastine <i>via</i> Rearrangements of Quaternary Ammoniums	Y. Zhang, Y. Xue, G. Li, H. Yuan, T. Luo*	<i>Chem. Sci.</i> 2016 , 7, 5530-5536.
52	Enantioselective Total Syntheses of Various Amphilectane and Serrulatane Diterpenoids <i>via</i> Cope Rearrangements	X. Yu, F. Su, C. Liu, H. Yuan, S. Zhao, Z. Zhou, T. Quan, T. Luo*	<i>J. Am. Chem. Soc.</i> 2016 , 138, 6261-6270.
53	Photo-induced Coupling Reaction of Tetrazoles and Carboxylic Acids in Aqueous Solution: Application in the Protein Labelling	S. Zhao, J. Dai, M. Hu, C. Liu, R. Meng, X. Liu, C. Wang, T. Luo*	<i>Chem. Commun.</i> 2016 , 52, 4702-4705.
54	Strong Electron-Deficient Polymers Lead to High Electron Mobility in Air and Their Morphology-Dependent Transport Behaviors	Yu-Qing Zheng, Ting Lei, Jin-Hu Dou, Xin Xia, Jie-Yu Wang, Chen-Jiang Liu, Jian Pei*	<i>Adv. Mater.</i> 2016 , 28, 7213-7219.
55	Embedding Electron-Deficient Nitrogen Atoms in Polymer Backbone towards High Performance n-Type Polymer Field-Effect Transistors	Ya-Zhong Dai, Na Ai, Yang Lu, Yu-Qing Zheng, Jin-Hu Dou, Ke Shi, Ting Lei, Jie-Yu Wang, Jian Pei*	<i>Chem. Sci.</i> 2016 , 7, 5753-5757.
56	Lactone-fused Electron-deficient Building Blocks for n-Type Polymer Field-effect Transistors: Synthesis, Properties, and Impact of Alkyl Substitution Positions	Xiao-Ye Wang, Meng-Wen Zhang, Fang-Dong Zhuang, Jie-Yu Wang* and Jian Pei*	<i>Polym. Chem.</i> 2016 , 7, 2264-2271.
57	A Side-chain Engineering Approach to Solvent-resistant Semiconducting Polymer Thin Films	Zi-Hao Guo, Na Ai, Connor Ryan McBroom, Tianyu Yuan, Yen-Hao	<i>Polym. Chem.</i> 2016 , 7, 648-655.

		Lin, Michael Roders, Congzhi Zhu, Alexander L. Ayzner, Jian Pei,* and Lei Fang*	
58	Enhanced Molecular Packing of a Conjugated Polymer with High Organic Thermoelectric Power Factor	Wei Ma*, Ke Shi, Yang Wu, Zuo-Yu Lu, Han-Yu Liu, Jie-Yu Wang, Jian Pei*	<i>ACS Appl. Mater. Inter.</i> 2016 , <i>8</i> , 24737-24743.
59	Research Progress in Isoindigo-Based Polymer Field-Effect Transistor Materials	Yang Lu, Yi-Fan Ding, Jie-Yu Wang*, Jian Pei*	<i>Chinese J. Org. Chem.</i> 2016 , <i>36</i> , 2272-2283.
60	Curved BN-embedded Nanographene for Application in Organic Solar Cells	Zhi-Ming Zhong, Xiao-Ye Wang, Fang-Dong Zhuang, Na Ai, Jian Wang,* Jie-Yu Wang, Jian Pei,* Jun-Biao Peng, Yong Cao	<i>J. Mater. Chem. A</i> 2016 , <i>4</i> , 15420-15425.
61	BN-Embedded Aromatics for Optoelectronic Applications	Jie-Yu Wang,* Jian Pei	<i>Chinese Chem. Lett.</i> 2016 , <i>27</i> , 1139-1146.
62	An Alkane-Soluble Dendrimer as Electron-Transport Layer in Polymer Light-Emitting Diodes	Zhi-Ming Zhong, Sen Zhao, Jian Pei, Jian Wang,* Lei Ying,* Jun-Biao Peng, Yong Cao	<i>ACS Appl. Mater. Inter.</i> 2016 , <i>8</i> , 20237-20242.
63	Aliphatic C–H Azidation through a Peroxydisulfate Induced Radical Pathway	Xin Li, Zhang-Jie Shi*	<i>Org. Chem. Front.</i> 2016 , <i>3</i> , 1326-1330.
64	Nickel Catalyzed Reduction of Arenols under Mild Conditions	Wen-Juan Shi, Xiao-Lei Li, Zhao-Wei Li, Zhang-Jie Shi*	<i>Org. Chem. Front.</i> 2016 , <i>3</i> , 375–379
65	Nickel- or Iron-Catalyzed Cross-Coupling of Aryl Carbamates with Arylsilanes	Wen-Juan Shi, Hong-Wei Zhao, Yang Wang, Zhi-Chao Cao, Li-Sheng Zhang, Da-Gang Yu, Zhang-Jie Shi*	<i>Adv. Synth. Catal.</i> 2016 , <i>358</i> , 2410–2416
66	C-O/C-H Coupling of Polyfluoroarenes with Aryl Carbamates by Cooperative Ni/Cu Catalysis	Yang Wang, Song-Bai Wu, Wen-Juan Shi, Zhang-Jie Shi*	<i>Org. Lett.</i> 2016 , <i>18</i> , 2548–2551
67	Cu-Catalyzed Alkynylation of Unactivated C(sp ³)–X Bonds with Terminal Alkynes through Directing Strategy	Fei-Xian Luo, Xing Xu, Ding Wang, Zhi-Chao Cao, Yun-Fei Zhang, Zhang-Jie Shi*	<i>Org. Lett.</i> 2016 , <i>18</i> , 2040–2043

68	Fe-Promoted Chlorobenzoylation of Terminal Alkynes through Benzylic C(sp ³)-H Bond Functionalization	Jiang-Ling Shi, Ji-Cheng Zhang, Bi-Qin Wang, Ping Hu, Ke-Qing Zhao, Zhang-Jie Shi*	<i>Org. Lett.</i> 2016 , <i>18</i> , 1238–1241
69	Direct Oxidation of Aliphatic C-H Bonds in Amino-Containing Molecules under Transition-Metal-Free Conditions	Xin Li, Xing Che, Gui-Hua Chen, Jun Zhang, Jia-Lei Yan, Yun-Fei Zhang, Li-Sheng Zhang, Chao-Ping Hsu, Yi Qin Gao*, Zhang-Jie Shi*	<i>Org. Lett.</i> 2016 , <i>18</i> , 1234–1237
70	Cu-Catalyzed Intramolecular Amidation of Unactivated C(sp ³)-H Bonds to Synthesize <i>N</i> -Substituted Indolines	Fei Pan, Bin Wu, Zhang-Jie Shi*	<i>Chem. Eur. J.</i> 2016 , <i>22</i> , 6487–6490
71	Chemoproteomic Profiling of Protein Modifications by Lipid-derived Electrophiles.	Ying Chen, Wei Qin and Chu Wang*	<i>Curr. Opin. Chem. Biol.</i> 2016 , <i>30</i> , 37-45.
72	Reaction of Diazo Compounds with Difluorocarbene: An Efficient Approach toward 1,1-Difluoroolefins	Zhikun Zhang, Weizhi Yu, Chenggui Wu, Chengpeng Wang, Yan Zhang, Jianbo Wang*	<i>Angew. Chem. Int. Ed.</i> 2016 , <i>55</i> , 273-277.
73	Synthesis of Allenylphosphonates through Cu(I)-Catalyzed Coupling of Terminal Alkynes with Diazophosphonates	Chenggui Wu, Fei Ye, Guojiao Wu, Shuai Xu, Guisheng Deng,* Yan Zhang, Jianbo Wang*	<i>Synthesis</i> 2016 , <i>48</i> , 751-760.
74	Metal-Free Oxidative Cross-Coupling of Diazirines with Arylboronic Acids	Guojiao Wu, Xia Zhao,* Wenzhi Ji, Yan Zhang and Jianbo Wang*	<i>Chem. Commun.</i> 2016 , <i>52</i> , 1961-1963.
75	Rh(I)-Catalyzed Reaction of Trifluoromethylketone <i>N</i> -Tosylhydrazones and Arylboronates	Zhikun Zhang, Weizhi Yu, Qi Zhou, Tianjiao Li, Yan Zhang and Jianbo Wang*	<i>Chin. J. Chem.</i> 2016 , <i>34</i> , 473-476.
76	Kinetic Isotope Effect: Introduction and Its Application in Some Mechanistic Studies of Transition-Metal-Catalyzed Reactions	Yujing Zhou and Jianbo Wang*	<i>Scientia Sinica Chimica</i> 2016 , <i>46</i> , 573-578.
77	C-H Bond Functionalization of Benzoxazoles with Chromium(0) Fischer Carbene Complexes	Fangdong Hu, Jinghui Yang, Ying Xia, Chen Ma, Haiping Xia, Yan Zhang and Jianbo Wang*	<i>Organometallics</i> 2016 , <i>35</i> , 1409-1414.
78	Copper(I)-Catalyzed Olefination of <i>N</i> -Sulfonylhydrazones with Sulfones	Shuai Xu, Yunpeng Gao, Ri Chen, Kang Wang, Yan Zhang and Jianbo	<i>Chem. Commun.</i> 2016 , <i>52</i> , 4478-4480.

		Wang*	
79	Cu(I)-Catalyzed Synthesis of Furan-Substituted Allenes Using Conjugated Ene-Yne-Ketones as Carbene Precursors	Fangdong Hu, Ying Xia, Chen Ma, Yan Zhang, Jianbo Wang*	<i>J. Org. Chem.</i> 2016 , <i>81</i> , 3275-3285.
80	Transition-Metal-Free Cascade Reaction of α -Halo- <i>N</i> -tosylhydrazones, Indoles and Arylboronic Acids	Guojiao Wu, Yifan Deng, Haiqing Luo, Junliang Zhou, Tianjiao Li, Yan Zhang, and Jianbo Wang*	<i>Chem. Commun.</i> 2016 , <i>52</i> , 5266-5268.
81	Pd(0)-Catalyzed Cross-Coupling of Allyl halides with α -Diazocarbonyl Compounds or <i>N</i> -Mesitylhydrazones: Synthesis of 1,3-Diene Compounds	Kang Wang, Shufeng Chen, Hang Zhang, Shuai Xu, Fei Ye, Yan Zhang, and Jianbo Wang*	<i>Org. Biomol. Chem.</i> 2016 , <i>14</i> , 3809-3820.
82	Recent Advances in C(sp ³)-H Bond Functionalization <i>via</i> Metal Carbene Insertions	Bo Wang, Di Qiu, Yan Zhang and Jianbo Wang*	<i>Beilstein J. Org. Chem.</i> 2016 , <i>12</i> , 796-804.
83	Cu(I)-Catalyzed Tandem Reaction of Carbene Coupling and HWE-Type Olefination: A New Access toward Enynes	Yujing Zhou, Fei Ye, Qi Zhou, Yan Zhang and Jianbo Wang*	<i>Org. Lett.</i> 2016 , <i>18</i> , 2024-2027.
84	Palladium-Catalyzed Cascade Reaction of α -Halo- <i>N</i> -Tosylhydrazones, Indoles and Aryl Idodies	Guojiao Wu, Yifan Deng, Haiqing Luo, Tianjiao Li, Yan Zhang and Jianbo Wang*	<i>Asian J. Org. Chem.</i> 2016 , <i>5</i> , 874-877.
85	Nitrogen Group Retaining Reaction in the Transformation of Diazo Compounds	Di Qiu,* Menglong Qiu, Rong Ma, Yan Zhang and Jianbo Wang*	<i>Acta Chimica Sinica</i> 2016 , <i>74</i> , 472-487.
86	One-Carbon Homologation of Arylboronic Acids: A Convenient Approach to the Synthesis of Pinacol Benzylboronates	Chaoqiang Wu, Guojiao Wu, Yan Zhang and Jianbo Wang*	<i>Org. Chem. Front.</i> 2016 , <i>3</i> , 817-822.
87	Rh(I)-Catalyzed Coupling of Conjugated Enynones with Arylboronic Acids: Synthesis of Furyl-Containing Triarylmethanes	Ying Xia, Li Chen, Peiyuan Qu, Guojing Ji, Sheng Feng, Qing Xiao, Yan Zhang, Jianbo Wang*	<i>J. Org. Chem.</i> 2016 , <i>81</i> , 10484-10490.
88	Cu(I)-Catalyzed Stereoselective Synthesis of (<i>E</i>)- α -Alkynyl- α,β -unsaturated Esters from Terminal Alkyne, Diazoesters and Aldehydes	Chenggui Wu, Zhenxing Liu, Zhikun Zhang, Fei Ye, Guisheng Deng, Yan Zhang and Jianbo Wang*	<i>Adv. Synth. Cat.</i> 2016 , <i>358</i> , 2480-2488.
89	Recent Advances in Transition-Metal-Catalyzed Synthesis of Conjugated Enynes	Yujing Zhou, Yan Zhang and Jianbo Wang*	<i>Org. Biomol. Chem.</i> 2016 , <i>14</i> , 6638-6650.

90	Transition-Metal-Free Three-Component Reaction of Cyclopropenes, Aldehydes and Amines	Hang Zhang, Bo Wang, Heng Yi, Tong Sun, Yan Zhang and Jianbo Wang*	<i>Chem. Commun.</i> 2016 , 52, 13285-13287.
91	Geminal Difunctionalization of α -Diazo Arylmethylphosphonates: Synthesis of Fluorinated Phosphonates	Yujing Zhou, Yan Zhang and Jianbo Wang*	<i>Org. Biomol. Chem.</i> 2016 , 10444-10453.
92	Rh(I)-Catalyzed Coupling of 2-Bromoethyl Aryldiazoacetates with Tertiary Propargyl Alcohols through Carbene Migratory Insertion	Zhen Liu, Ying Xia,* Sheng Feng, Yan Zhang and Jianbo Wang*	<i>Org. Chem. Front.</i> 2016 , 3, 1691-1698.
93	Coupling of Arylboronic Acids with Benzyl Halides or Mesylates without Adding Transition Metal Catalysts	Guojiao Wu, Shuai Xu, Yifan Deng, Chaoqiang Wu, Xia Zhao, Wenzhi Ji, Yan Zhang and Jianbo Wang*	<i>Tetrahedron</i> 2016 , 72, 8022-8030.
94	Enantioselective Synthesis of Trisubstituted Allenes <i>via</i> Cu(I)-Catalyzed Coupling of Diazoalkanes with Terminal Alkynes	Wen-Dao Chu, Lei Zhang, Zhikun Zhang, Qi Zhou, Fanyang Mo, Yan Zhang and Jianbo Wang*	<i>J. Am. Chem. Soc.</i> 2016 , 138, 14558-14561.
95	Metal-Free Aromatic Carbon-Phosphorus Bond Formation <i>via</i> a Sandmeyer-Type Reaction	Shuai Wang, Di Qiu, Fanyang Mo, Yan Zhang and Jianbo Wang*	<i>J. Org. Chem.</i> 2016 , 81, 11603-11611.
96	Rh(I)-Catalyzed C-C Bond Activation of Siloxyvinylcyclopropanes with Diazoesters	Sheng Feng, Fanyang Mo, Ying Xia, Zhenxing Liu, Zhen Liu, Yan Zhang and Jianbo Wang*	<i>Angew. Chem. Int. Ed.</i> 2016 , 55, 15401-15405.
97	Aromatic Dicumpra[10]annulenes	Junnian Wei, Yongliang Zhang, Yue Chi, Liang Liu, Wen-Xiong Zhang, and Zhenfeng Xi*	<i>J. Am. Chem. Soc.</i> 2016 , 138, 60–63.
98	Calcium-Mediated C-H and C-F Bond Cleavage: Synthesis of Indenes and Perfluorodibenzopentalenes from 1,4-Dilithio-1,3-butadienes	Baosheng Wei, Heng Li, Wen-Xiong Zhang,* and Zhenfeng Xi*	<i>Organometallics</i> 2016 , 35, 1458–1463.
99	Sandwich Lutetacyclopentadiene with the Coordination of Lithium to the Diene Unit: Synthesis, Structure, and Transformation	Ling Xu, Yang Wang, Yu-Cheng Wang, Zitao Wang, Wen-Xiong Zhang,* and Zhenfeng Xi	<i>Organometallics</i> 2016 , 35, 5–8.
100	Direct Synthesis of Phospholyl Lithium from White Phosphorus	Ling Xu, Yue Chi, Shanshan Du,	<i>Angew. Chem. Int. Ed.</i> 2016 , 55,

		Wen-Xiong Zhang,* and Zhenfeng Xi	9187–9190.
101	Structure and Reaction Chemistry of Magnesium Organocuprates Derived from Magnesiacyclopentadienes and Copper(I) Salts	Liang Liu, Junnian Wei, Yue Chi, Wen-Xiong Zhang,* and Zhenfeng Xi*	<i>Angew. Chem. Int. Ed.</i> 2016 , <i>55</i> , 14762–14765.
102	A DFT Study on the Conversion of Aryl Iodides to Alkyl Iodides: Reductive Elimination of R-I from Alkylpalladium Iodide Complexes with Accessible β -Hydrogens	Wei Hao, Junnian Wei, Yue Chi, Patrick J. Walsh, Zhenfeng Xi*	<i>Chem. Eur. J.</i> 2016 , <i>22</i> , 3422-3429.
103	Asymmetric Total Synthesis of Propindilactone G, Part 1: Initial Attempts towards the Synthesis of Schiartanes	Ling-Ming Xu, Lin You, Zhen-Hua Shan, Ruo-Cheng Yu, Bo Zhang, Yuan-He Li, Ying Shi, Jia-Hua Chen, and Zhen Yang	<i>Chem. Asian J.</i> 2016 , <i>11</i> , 1406 -1413
104	Asymmetric Total Synthesis of Propindilactone G, Part 2: Enantioselective Construction of the Fully Functionalized BCDE Ring System	Jia-Jun Zhang, Lin You, Yue-Fan Wang, Yuan-He Li, Xin-Ting Liang, Bo Zhang, Shou-Liang Yang, Qi Su, Jia-Hua Chen, and Zhen Yang*	<i>Chem. Asian J.</i> 2016 , <i>11</i> , 1414 – 1424
105	Asymmetric Total Synthesis of Propindilactone G, Part 3: The Final Phase and Completion of the Synthesis	Xin-Ting Liang, Lin You, Yuan-He Li, Hai-Xin Yu, Jia-Hua Chen, and Zhen Yang	<i>Chem. Asian J.</i> 2016 , <i>11</i> , 1425-1435
106	Rh-Catalysed [5+1] Cycloaddition of Allenylcyclopropanes and CO: Reaction Development and Application to the Formal Synthesis of (–)-Galanthamine”	Cheng-Hang Liu and Zhi-Xiang Yu*	<i>Org. Biomol. Chem.</i> 2016 , <i>14</i> , 5945.
107	Fe ₂ (CO) ₉ -Mediated [5+1] Cycloaddition of Vinylcyclopropanes and CO for the Synthesis of α , β -cyclohexenes	Cheng-Hang Liu, Zhe Zhuan, Sritama Bose, and Zhi-Xiang Yu,*	<i>Tetrahedron</i> 2016 , <i>72</i> , 2752.
108	Formal Synthesis of Gracilamine Using Rh(I)-catalyzed [3 + 2 + 1] Cycloaddition of 1-Yne-Vinylcyclopropanes and CO	Sritama Bose, Jun Yang, and Zhi-Xiang Yu,*	<i>J. Org. Chem.</i> 2016 , <i>81</i> , 6757.
109	Cycloaddition Reaction of Vinylphenylfurans and Dimethyl Acetylenedicarboxylate to [8+2] Isomers <i>via</i> Tandem [4+2]/Diradical Alkene-Alkene Coupling/[1,3]-H Shift Reactions: Experimental Exploration and DFT Understanding of Reaction	Kai Chen, Feng Wu, Lijuan Ye, Ziyou Tian, Zhi-Xiang Yu,* Shifa Zhu*	<i>J. Org. Chem.</i> 2016 , <i>81</i> , 8155.

	Mechanism		
110	A Concise Synthesis of (-)-Mesembrine	Lu-Ning Wang, Qi Cui,, and Zhi-Xiang Yu*	<i>J. Org. Chem.</i> , 2016 , <i>81</i> , 10165
111	Probing the G-Quadruplex from hsa-miR-3620-5p and Inhibition of Its Interaction with the Target Sequence	Wei Tan, Jiang Zhou*, Jiangyong Gu, Ming Xu Xiaojie Xu and Gu Yuan*	<i>Talanta</i> , 2016 , <i>154</i> , 560-566.
112	Exploration of Binding Affinity and Selectivity of Brucine with G-Quadruplex in the c-myb Proto-oncogene by Electrospray Ionization Mass Spectrometry	Huihui Li*, Jinhui Hai, Jiang Zhou and Gu Yuan*	<i>Rapid Commun. Mass Spectrom.</i> 2016 , <i>30</i> , 407-14.
113	Investigation on the Formation, Conversion and Bioactivity of a G-quadruplex Structure in the PALB2 gene	Fangyuan Li, Jiang Zhou,* Ming Xu and Gu Yuan*	<i>Int. J. Bio. Macromol.</i> 2016 , <i>83</i> , 242-48.
114	The Formation and Characteristics of the i-Motif Structure within the Promoter of the c-myb Proto-oncogene	Huihui Li,* Jinhui Hai, Jiang Zhou and Gu Yuan*	<i>J. Photochem. Photobiol. B.</i> , 2016 , <i>162</i> , 625-32.
115	Study of G-Quadruplexes in the STAT3 Gene using Electrospray Ionization Mass Spectrometry	Sen Lin, Haitao Long, Jiang Zhou* and Gu Yuan*	<i>Rapid Commun. Mass Spectrom.</i> 2016 , <i>30</i> , 173-178 (Suppl.1)
116	Generation of Artificial Sequence-specific Nucleases <i>via</i> Preassembled Inert-template	Xianjin Xiao, Tongbo Wu, Feidan Gu and Meiping Zhao*	<i>Chem. Sci.</i> 2016 , <i>7</i> , 2051-2057
117	In-vivo Fluorescence Imaging of Adenosine 5'-Triphosphate	Jiantong Dong, Meiping Zhao*	<i>TrAC Trends in Analytical Chemistry</i> , 2016 , <i>80</i> , 190-203
118	A Fuel-limited Isothermal DNA Machine for Sensitive Detection of Cellular Deoxyribonucleoside Triphosphates	Jiantong Dong, Tongbo Wu, Yu Xiao, Lei Xu, Simin Fang and Meiping Zhao*	<i>Chem. Commun.</i> 2016 , <i>52</i> , 11923-11926
119	Single-Stranded DNA Assisted Cell Penetrating Peptide–DNA Conjugation Strategy for Intracellular Imaging of Nucleases	Lu Chen, Simin Fang, Xianjin Xiao*, Bo Zheng, and Meiping Zhao*	<i>Anal. Chem.</i> 2016 , <i>88</i> , 11306–11309.
120	Non-equilibrium Behaviour in Coacervate-based Protocells under Electric-field-induced Excitation,	Yudan Yin, Lin Niu, Xiaocui Zhu, Meiping Zhao, Zexin Zhang, Stephen Mann and Dehai Liang*	<i>Nature Commun.</i> 2016 , <i>7</i> , 10658
121	Restraining Non-specific Adsorption of Protein Using Parylene C-Caulked Polydimethylsiloxane	Yaoping Liu, Lingqian Zhang, Wengang Wu, Meiping Zhao, and Wei Wang*	<i>Biomicrofluidics</i> , 2016 , <i>10</i> , 024126