

2020 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	High-Throughput Single-Cell Immunoassay in the Cellular Native Environment Using Online Desalting Dual-Spray Mass Spectrometry	Shuting Xu, Jinjuan Xue, Yu Bai*, Huwei Liu	<i>Anal. Chem.</i> <b>2020</b> , 92, 15854-15861
2	In Situ Laser Scattering Electrospray Ionization Mass Spectrometry and Its Application in the Mechanism Study of Photoinduced Direct C-H Arylation of Heteroarenes	Wanpeng Ai, Qirong Yang, Yunpeng Gao, Xiaoyun Liu, Huwei Liu, and Yu Bai*	<i>Anal. Chem.</i> <b>2020</b> , 92, 11967-11972
3	Tracing and elucidating visible-light mediated oxidation and C-H functionalization of amines using mass spectrometry	Wanpeng Ai, Yunpeng Gao, Jinjuan Xue, Xiaoyun Liu, Huwei Liu, Jianbo Wang, Yu Bai*	<i>Chem. Commun.</i> , <b>2020</b> , 56, 2163-2166
4	A novel online two-dimensional supercritical fluid chromatography/reversed phase liquid chromatography-mass spectrometry method for lipid profiling	Li Yang, Honggang Nie, Fan Zhao, Shiyao Song, Ying Meng, Yu Bai, Huwei Liu*	<i>Anal. Bioanal. Chem.</i> , <b>2020</b> , 412, 2225-2235
5	Myriocin and D-PDMP ameliorate atherosclerosis in ApoE(-/-) mice via reducing lipid uptake and vascular inflammation	Zemou Yu, Qing Peng, Songyue Li, Hongjun Hao, Jianwen Deng, Lingbing Meng, Zhiyuan Shen, Weiwei Yu, Nan. Ding, Yu Bai*, Yining Huang*	<i>Clinical Science</i> , <b>2020</b> , 134, 439-458
6	Phospholipid imaging of zebrafish exposed to fipronil using atmospheric pressure matrix-assisted laser desorption ionization mass spectrometry	Wenjie Liu, Hongxiang Nie, Dapeng Liang, Yu Bai*, Huwei Liu	<i>Talanta</i> , <b>2020</b> , 209, 120357.
7	Severe Acute Respiratory Syndrome Coronavirus-2 Spike Protein Nanogel as a Pro-Antigen Strategy with Enhanced Protective Immune Responses	Long Chen, Bo Liu, Peng Sun, Wenjun Wang, Shiqiang Luo, Wenyan Zhang, Yuanfan Yang, Zihao Wang, Jian Lin*, Peng R. Chen*	<i>Small</i> , <b>2020</b> , 16, 2004237
8	Cationic Lipid-based Intracellular Delivery of Bacterial Effectors for Rewiring Malignant Cell Signaling	Yang S, Tang Q, Chen L, Chang J, Zhao J, Jiang T, Wang M, Peng R. Chen*	<i>Angew. Chem. Int. Ed.</i> ( <b>2020</b> ), 59, 18087-18094
9	Genetically encoded protein labeling and crosslinking in living <i>Pseudomonas aeruginosa</i>	Zheng H, Lin S, Chen P	<i>Bioorg Med Chem.</i> ( <b>2020</b> ), 28, 115545

10	SFPQ Is an FTO-Binding Protein that Facilitates the Demethylation Substrate Preference	Song H, Wang Y, Wang R, Zhang X, Liu Y, Jia G*, Peng R. Chen*	<i>Cell Chem. Biol.</i> <b>2020</b> , 27, 283-291
11	Chemoproteomic Profiling of O-GlcNAcylation in <i>Caenorhabditis elegans</i>	Wei Qin,Zhongyun, Xie Jingyang Wang,Guangshuo Ou ,Chu Wang*,Xing Chen*	<i>Biochemistry</i> , <b>2020</b> , 59, 34, 3129–3134
12	Protein S-Glyco-Modification through an Elimination–Addition Mechanism	Ke Qin, Hao Zhang,Zhenqi Zhao,Xing Chen*	<i>J. Am. Chem. Soc.</i> <b>2020</b> , 142, 20, 9382–9388
13	Metabolic RNA labeling for probing RNA dynamics in bacteria	Liyong Meng,Yilan Guo,Qi Tang,Rongbing Huang,Yuchen Xie,Xing Chen*	<i>Nucleic Acids Res.</i> <b>2020</b> ,48,22,1256 6-12576
14	Synthesis of Open-Cage Fullerenes with a Long Tail	Hao Zhang, Jie Su, * and Liangbing Gan*	<i>Org. Materials</i> <b>2020</b> , 2, 282-287.
15	Antibody-free enzyme-assisted chemical approach for detection of N <sup>6</sup> -methyladenosine.	Ye Wang, Yu Xiao, Shunqing Dong, Qiong Yu, Guifang Jia*	<i>Nature Chemical Biology</i> , <b>2020</b> , 16, 896-903
16	SFPQ is an FTO-binding protein that facilitates the demethylation substrate preference	Haiping Song, Ye Wang, Ruixiang Wang, Xiao Zhang, Yaping Liu, Guifang Jia*, Peng R.Chen*	<i>Cell Chemical Biology</i> , <b>2020</b> , 27, 283-291
17	RNA 化学修饰 m6A 的生物功能研究进展	唐乾, 张梧桐, 贾桂芳	<i>中国科学化学</i> , <b>2020</b> , 50:1233-1249
18	Detection methods of epitranscriptomic mark N6-methyladenosine	Ye Wang, Guifang Jia	<i>Essays in Biochemistry</i> , <b>2020</b> , 64: 967-979
19	Chemical screening identifies ROCK1 as a regulator of migrasome formation	Puzhong Lu, Rui Liu, Di Lu, Yue Xu, Xueyi Yang, Zheng Jiang, Chun Yang, Li Yu*, Xiaoguang Lei * and Yang Chen*	<i>Cell Discovery</i> , <b>2020</b> , 6(1), 51
20	Chemoenzymatic Total Syntheses of Artonin I with an Intermolecular Diels–Alderase	Xiaojing Liu, Jun Yang, Lei Gao, Liyun Zhang, Xiaoguang Lei*	<i>Biotechnology Journal</i> , <b>2020</b> , 15(11), 2000119
21	Syntheses of Skeletally Diverse Tetracyclic Isodon Diterpenoid Scaffolds Guided by Diene Radical Cyclization Logic	Weilong Liu, Zongwei Yue, Zhen Wang, Houhua Li and Xiaoguang Lei*	<i>Organic Letters</i> , <b>2020</b> , 22(20), 7991–7996
22	Inhibition of PU.1 ameliorates metabolic dysfunction and non-alcoholic steatohepatitis	Qiongming Liu1, Junjie Yu, Liheng Wang, Yuliang Tang, Quan Zhou, Shuhui Ji , Yi	<i>Journal of Hepatology</i> , <b>2020</b> , 73(2), 361–370

		Wang , Luis Santos , Rebecca A. Haeusler, Jianwen Que, Prashant Rajbhandari, Xiaoguang Lei, Luca Valenti, Utpal B. Pajvani*, Jun Qin*, Li Qiang, *	
23	FAD-dependent enzyme-catalysed intermolecular [4+2] cycloaddition in natural product biosynthesis	Lei Gao, Cong Su, Xiaoxia Du, Ruishan Wang, Shuming Chen, Yu Zhou, Chengwei Liu, Xiaoqing Liu, Runze Tian, Liyun Zhang, Kebo Xie, She Chen, Qianqian Guo, Lanping Guo, Yoshio Hano, Manabu Shimazaki, Atsushi Minami, Hideaki Oikawa, Niu Huang, K. N. Houk, Luqi Huang*, Jungui Dai*, Xiaoguang Lei*	<i>Nature Chemistry</i> , <b>2020</b> , 12(7), 620–628
24	Chrysomycin A Derivatives for the Treatment of Multi-Drug-Resistant Tuberculosis	Fan Wu, Jing Zhang, Fuhang Song, Sanshan Wang, Hui Guo, Qi Wei, Huanqin Dai, Xiangyin Chen, Xuekui Xia, Xueting Liu, LixinZhang, Jin-Quan Yu and Xiaoguang Lei*	<i>ACS Central Science</i> , <b>2020</b> , 6(6), 928–938
25	Identification of the AMA Synthase from the Aspergillomarasmine A Biosynthesis and Evaluation of Its Biocatalytic Potential	Qianqian Guo, Dongshan Wu, Lei Gao, Yingjie Bai, Yuan Liu, NianxinGuo, Xiaoxia Du, Jun Yang, Xiaoming Wang and Xiaoguang Lei*	<i>ACS Catalysis</i> , <b>2020</b> , 10(11),6291–6298
26	Late-Stage Diversification of Natural Products	Benke Hong, Tuoping Luo and Xiaoguang Lei*	<i>ACS Central Science</i> , <b>2020</b> , 6(5), 622–635
27	Dissecting Programmed Cell Death with Small Molecules	Yingjie Bai, Hiu C. Lam and Xiaoguang Lei*	<i>Accounts of Chemical Research</i> , <b>2020</b> , 53(5), 1034–1045
28	Computation-Guided Development of the click ortho-Quinone Methide Cycloaddition with Improved Kinetics	XiaoyunZhang, Shuo-Qing Zhang, Qiang Li, Fan Xiao, Zongwei	<i>Organic Letters</i> , <b>2020</b> , 22(8), 2920–2924

		Yue, Xin Hong* and Xiaoguang Lei*	
29	An Arabidopsis Secondary Metabolite Directly Targets Expression of the Bacterial Type III Secretion System to Inhibit Bacterial Virulence	Wei Wang, Jing Yang, Jian Zhang, Yong-Xin Liu, Caiping Tian, Baoyuan Qu, Chulei Gao, Peiyong Xin, Shujing Cheng, Wenjing Zhang, Pei Miao, Lei Li, Xiaojuan Zhang, Jinfang Chu, Jianru Zuo, Jiayang Li, Yang Bai, Xiaoguang Lei* and Jian-Min Zhou*	<i>Cell Host and Microbe</i> , <b>2020</b> , 27(4), 601–613.
30	Evaluation of chemical cross-linkers for in-depth structural analysis of G protein-coupled receptors through cross-linking mass spectrometry	Lisha Xia, Ziliang Ma, Jiahui Tong, Yuliang Tang, Shanshan Li, Shanshan Qin, Ronghui Lou, Suwen Zhao, Xiaoguang Lei* and Wenqing Shui*	<i>Analytica Chimica Acta</i> , <b>2020</b> , 1102, 53–62
31	Biomimetic Synthesis of Rhytidenone A and Mode of Action of Cytotoxic Rhytidenone F	Zongwei Yue, Hiu C. Lam, Kaiqi Chen, Ittipon Siridechakorn, Yaxi Liu, Khanitha Pudhom and Xiaoguang Lei*	<i>Angew. Chem. Int. Ed.</i> , <b>2020</b> , 59(10), p4115–4120
32	Styryllactones from <i>Goniothalamus tamirensis</i>	Pornphimol Meesakul, Wuttichai Jaidee, Christopher Richardson, Raymond J. Andersen, Brian O. Patrick, Anthony C. Willis, Chatchai Muanprasat, Jin Wang, Xiaoguang Lei, Sarinya Hadsadee, Siriporn Jungsuttiwong, Stephen G. Pyne* and Surat Laphookhieo*	<i>Phytochemistry</i> , <b>2020</b> , 171, 112248
33	Protecting-Group-Free Syntheses of ent-Kaurane Diterpenoids: [3+2+1] Cycloaddition/Cycloalkenylation Approach	Jin Wang, Benke Hong, Dachao Hu, Yuichiro Kadonaga, Ruyao Tang and Xiaoguang Lei*	<i>Journal of the American Chemical Society</i> , <b>2020</b> , 142(5), 2238–2243
34	Biosynthetic Intermediate Probes for Visualizing and Identifying the Biosynthetic	Lei Gao* and Xiaoguang Lei*	<i>ChemBioChem</i> <b>2020</b> , 21, 1–4

	Enzymes of Plant Metabolites		
35	New Strategies in the Efficient Total Syntheses of Polycyclic Natural Products	Weilong Liu, Benke Hong, Jin Wang and Xiaoguang Lei*	<i>Acc. Chem. Res.</i> <b>2020</b> , <i>53</i> , <i>11</i> , 2569–2586
36	Colocalized particle counting platform FOR zeptomole level multiplexed quantification	Guangyu Tao, Tiancheng Lai, Xiao Xu, Yurou Ma, Xi Wu, Xiaojing Pei, Feng Liu, Na Li*	<i>Anal. Chem.</i> <b>2020</b> , <i>92</i> , 3697–3706
37	Competitive aptasensor for the ultrasensitive multiplexed detection of cancer biomarkers by fluorescent nanoparticle counting	Xiaojing Pei, Xi Wu, Jie Xiong, Guohong Wang, Guangyu Tao, Yurou Ma, Na Li*	<i>Analyst</i> <b>2020</b> , <i>145</i> , 3612–3619.
38	Nanomaterial-based multiplex optical sensors (invited review)	Xiaojing Pei, Guangyu Tao, Xi Wu, Yurou Ma, Rongsheng Li, Na Li*	<i>Analyst</i> <b>2020</b> , <i>145</i> , 4111–4123.
39	Synthesis of 17-Deacetoxy Chromodorolide B Based on a Gold-Catalyzed Alkoxy cyclization Reaction	Chen Li, Tianfei Quan, Yibin Xue, Yuhui Cao, Si-Cong Chen, Tuoping Luo*	<i>Org. Lett.</i> <b>2020</b> , <i>22</i> , 1655–1658.
40	Total Synthesis of (–)-Batrachotoxinin A: A Local-Desymmetrization Approach	Yinliang Guo, Zhixian Guo, Jia-Tian Lu, Runting Fang, Si-Cong Chen, Tuoping Luo*	<i>J. Am. Chem. Soc.</i> <b>2020</b> , <i>142</i> , 3675–3679.
41	Elimination of Senescent Cells by $\beta$ -Galactosidase-Targeted Prodrug Attenuates Inflammation and Restores Physical Function in Aged Mice	Yusheng Cai, Huanhuan Zhou, Yinhua Zhu, Qi Sun, Yin Ji, Anqi Xue, Yuting Wang, Wenhan Chen, Xiaojie Yu, Longteng Wang, Han Chen, Cheng Li, Tuoping Luo*; Hongkui Deng*	<i>Cell Res.</i> <b>2020</b> , <i>30</i> , 574–589.
42	Structural Insights Into the Inhibition Mechanism of Human Sterol O-acyltransferase 1 by a Competitive Inhibitor	Chengcheng Guan, Yange Niu, Si-Cong Chen, Yunlu Kang, Jing-Xiang Wu, Koji Nishi, Catherine C. Y. Chang, Ta-Yuan Chang, Tuoping Luo, Lei Chen*	<i>Nat. Commun.</i> <b>2020</b> , <i>11</i> , 2478.
43	Rapid Construction of Fold-Line-Shaped BN-Embedded Polycyclic Aromatic Compounds through Diels–Alder Reaction	Peng-Fei Zhang, Fang-Dong Zhuang, Zehao Sun, Yang Lu, Jie-Yu Wang,* Jian Pei*	<i>The Journal of Organic Chemistry</i> , <b>2020</b> , <i>85</i> , 241–247
44	Conformation-Dependent Spin Relaxation	Zi-Yuan Wang, Ya-Zhong	<i>Crystal Growth &amp;</i>

	Behaviors of 6-Oxoverdazyl Radical Single Crystals	Dai, Ze-Fan Yao, Bo-Wei Dong, Yang Lu, Li Ding, Shang-Da Jiang,* Jie-Yu Wang,* Jian Pei*	<i>Design</i> , <b>2020</b> , 20, 2141-2146
45	Chemoproteomic profiling of itaconation by bioorthogonal probes in inflammatory macrophages.	Qin, W. #; Zhang, Y. #; Tang, H.; Liu, D.; Chen, Y.; Liu, Y.; Wang, C.*	<i>J. Am. Chem. Soc.</i> <b>2020</b> , 142 (25), 10894-10898
46	Chemical Proteomic Profiling of Protein 4'-Phosphopantetheinylation in Mammalian Cells.	Chen, N.; Liu, Y.; Li, Y.; Wang, C.*,	<i>Angew. Chem. Int. Ed.</i> <b>2020</b> , 59(37), 16069-16075
47	Profiling of post-translational modifications by chemical and computational proteomics.	Yang, F.; Wang, C.*	<i>Chem Commun (Camb)</i> . <b>2020</b> , 56(88), 13506-13519
48	Experimental and Computational Studies on Rh(I)-Catalyzed Reaction of Siloxyvinylcyclopropanes and Diazoesters	Sheng Feng, Kang Wang, Yifan Ping and Jianbo Wang*	<i>J. Am. Chem. Soc.</i> <b>2020</b> , 142, 21032-21039.
49	Cu(I)/Chiral Bisoxazoline-Catalyzed Enantioselective Sommelet-Hauser Rearrangement of Sulfonium Ylides	Shu-Sen Li and Jianbo Wang*	<i>J. Org. Chem.</i> <b>2020</b> , 85, 12343-12358.
50	Palladium-Catalyzed Reductive Coupling of Aromatic Bromides and Trimethylsilyldiazomethane: Its Application to Methylation of Aromatic Compounds	Shuai Wang, Cheng Yang, Shuo Sun, Hanli Sun, and Jianbo Wang*	<i>Chin. J. Org. Chem.</i> <b>2020</b> , 40, 3881-3888.
51	Difluoroketenimine: Generation from Difluorocarbene and Isocyanide, and Its [3+2] Cycloadditions with Alkenes or Alkynes	Rui Zhang, Zhikun Zhang, Kang Wang, and Jianbo Wang*	<i>J. Org. Chem.</i> <b>2020</b> , 85, 9791-9800.
52	Transition-Metal-Catalyzed Cross-Coupling with Ketones or Aldehydes via N-Tosylhydrazones	Ying Xia* and Jianbo Wang*	<i>J. Am. Chem. Soc.</i> <b>2020</b> , 142, 10592-10605.
53	Construction of Alkenyl-Functionalized Spirocarbocyclic Scaffolds from Alkyne-Containing Phenol-Based Biaryls via Sequential Iodine-Induced Cyclization/Dearomatization and Pd-Catalyzed Coupling of N-Tosylhydrazones	Anjia Liu, Kaiming Han, Xin-Xing Wu, Shufeng Chen,* Jianbo Wang*	<i>Chin. J. Chem.</i> <b>2020</b> , 38, 1257-1262.
54	Palladium-Catalyzed Cascade Cyclization/Dearomatization/Arylation of Alkyne-Containing Phenol-Based Biaryls with Aryl Halides: An Entry to Diversely Functionalized Spirocyclohexadienones	Yunlong Bai, Anjia Liu, Xin-Xing Wu, Shufeng Chen*, and Jianbo Wang*	<i>J. Org. Chem.</i> <b>2020</b> , 85, 6687-6696.
55	Ring-Opening Iodination and Bromination of Unstrained Cycloalkanols through $\beta$ -Scission of Alkoxy Radicals	Jiang-Ling Shi, Yuankai Wang, Zixuan Wang, Bowen Dou and Jianbo Wang*	<i>Chem. Commun.</i> <b>2020</b> , 56, 5002-5005.

56	Synthesis of Arylboronic Pinacol Esters from Corresponding Arylamines	Fanyang Mo, Di Qiu and Jianbo Wang*	<i>Org. Synth.</i> <b>2020</b> , <i>97</i> , 1
57	Mono- and Bis-Titanium Complexes Bridged by 2-Butene Tetraanion: Synthesis and Structural Characterization	Chao Yu, Wang Ma, Wen-Xiong Zhang, and Zhenfeng Xi*	<i>Organometallics</i> <b>2020</b> , <i>39</i> , 793–796.
58	Inverse-Sandwich Cyclobutadiene Dinickel Complexes: Synthesis and Structural Characterization	Chao Yu, Botao Wu, Zhenqiang Yang, Hui Chen, Wen-Xiong Zhang, and Zhenfeng Xi*	<i>Bull. Chem. Soc. Jpn.</i> <b>2020</b> , <i>93</i> , 1314–1318.
59	Butadienyl Diiron Complexes: Nonplanar Metalla-Aromatics Involving $\sigma$ -Type Orbital Overlap	Chao Yu, Mingdong Zhong, Yongliang Zhang, Junnian Wei, Wangyang Ma, Wen-Xiong Zhang, Shengfa Ye*, and Zhenfeng Xi*	<i>Angew. Chem., Int. Ed.</i> <b>2020</b> , <i>59</i> , 19048–19053.
60	Dinickelaferrocene: A Ferrocene Analogue with Two Aromatic Nickeloles Realized by Electron Back-Donation from Iron	Zhe Huang, Yu Zheng, Wen-Xiong Zhang, Shengfa Ye*, Liang Deng*, and Zhenfeng Xi*	<i>Angew. Chem. Int. Ed.</i> <b>2020</b> , <i>59</i> , 14394–14398.
61	Direct Transformation of Dinitrogen: Synthesis of <i>N</i> -Containing Organic Compounds via N–C Bond Formation	Ze-Jie Lv, Junnian Wei, Wen-Xiong Zhang, Ping Chen, Dehui Deng, Zhang-Jie Shi, , and Zhenfeng Xi*	<i>Natl. Sci. Rev.</i> <b>2020</b> , <i>7</i> , 1564–1583.
62	Frustrated Lewis Pairs: Discovery and Overviews in Catalysis	Nan Li, and Wen-Xiong Zhang*	<i>Chin. J. Chem.</i> <b>2020</b> , <i>38</i> , 1360–1370.
63	Molecular Complexes of Emerging Tetravalent Rare-Earth Metals	Nan Li, and Wen-Xiong Zhang*	<i>Chin. J. Chem.</i> <b>2020</b> , <i>38</i> , 1449–1450.
64	Cyclic Schrock-Carbene-Like Bis-Alkylidene Complexes of Titanium and Zirconium: Synthesis, Characterization and Reaction	Yongliang Zhang, Botao Wu, Mingdong Zhong, Wen-Xiong Zhang*, and Zhenfeng Xi*	<i>Chem. Eur. J.</i> <b>2020</b> , <i>26</i> , 16472–16479.
65	Fragmentation Mechanism of White Phosphorus: A Theoretical Insight into Multiple Cleavage/Formation of P–P and P–C Bonds	Gen Luo, Shanshan Du, Pan Wang, Fan Liu, Wen-Xiong Zhang*, and Yi Luo*	<i>Chem. Eur. J.</i> <b>2020</b> , <i>26</i> , 13282–13287.
66	Cyclic Bis-alkylidene Complexes of Titanium and Zirconium: Synthesis, Characterization, and Reaction	Yang Wang*, Wen-Xiong Zhang*, and Zhenfeng Xi	<i>Chem. Soc. Rev.</i> <b>2020</b> , <i>49</i> , 5810–5849.
67	Trishomoaromatic ( $B_3N_3Ph_6$ ) Dianion: Characterization and Two-Electron Reduction	Nan Li, <sup>#</sup> Botao Wu, <sup>#</sup> Chao Yu, Tianyu Li, Wen-Xiong Zhang*, and Zhenfeng Xi*	<i>Angew. Chem., Int. Ed.</i> <b>2020</b> , <i>59</i> , 8868–8872.
68	2-Butene Tetraanion Bridged Dinuclear	Yu Zheng, <sup>#</sup> Chang-Su	<i>J. Am. Chem. Soc.</i>

	Samarium(III) Complexes via Sm(II)-Mediated Reduction of Electron-Rich Olefins	Cao, <sup>#</sup> Wangyang Ma, <sup>#</sup> Tianyang Chen, Botao Wu, Chao Yu, Zhe Huang, Jianhao Yin, Han-Shi Hu*, Jun Li, Wen-Xiong Zhang*, and Zhenfeng Xi	2020, 142, 10705–10714.
69	双锂试剂的发现与发展: 意料之外情理之中	席振峰	中国科学: 化学 2020, 50, 1398-1406.
70	Outlook of nitrogen fixation by carbene	Chun-Hai Wang, Zhu-Bao Yin, Junnian Wei, Wen-Xiong Zhang, Zhenfeng Xi*	Tetrahedron 2020, 76, 131703.
71	Rare-earth Metal Boroxide with Formal Triple Metal-Oxygen Orbital Interaction: Synthesis from B(C <sub>6</sub> F <sub>5</sub> ) <sub>3</sub> ·H <sub>2</sub> O and Radical-anion Ligated Rare-earth Metal Amides	Haihan Yan, <sup>#</sup> Botao Wu, <sup>#</sup> Xiao-Kun Zhao, Chao Yu, Junnian Wei, Han-Shi Hu, <b>Wen-Xiong Zhang*</b> , and Zhenfeng Xi	CCS Chem. 2020, 2, 2772–2781.
72	Asymmetric Total Synthesis of Pre-schisanartanin C	Jiang, Y.L.; Yu, H.X.; Li, Y.; Qu, P.; Han, Y.X.; Chen, J.H.; Yang, Z	J. Am. Chem. Soc. 2020, 142, 573.
73	Asymmetric Total Synthesis of (–)-Spirochensilide A	Liang, X.T.; Chen, J.H.; Yang, Z	J. Am. Chem. Soc. 2020, 142, 8116.
74	Total Synthesis of (+)-Haperforin G	Zhang, W.; Zhang, Z.Y.; Tang, J.C.; Che, J.T.; Zhang, H.Y.; Chen, J.H.; Yang, Z	J. Am. Chem. Soc. 2020, 142, 19487
75	Synthesis of 4-Desmethyl-Rippertenol and 7-Epi-Rippertenol via Photoinduced Cyclization of Dienones	Zhang, Z.C.; Zhao, D.D.; Zhang, Z.C.; Tan, X.Y.; Gong, J.X.; Fu, J.K.; Yang, Z	Chinese Chemical Society. 2020, 2, 2074
76	Evolution of Pauson-Khand Reaction: Strategic Applications in Total Syntheses of Architecturally Complex Natural Products	Chen, S.J.; Jiang, C.G.; Zheng, N.; Yang, Z.; Shi, L.L	Catalysts. 2020, 10, 1199
77	Photoredox-Catalyzed Isomerization of Highly Substituted Allylic Alcohols by C–H Bond Activation	Guo, K.; Zhang, Z.C.; Li, A.D.; Li, Y.H.; Huang, J.; Yang, Z	Angew.Chem. Int. Ed. 2020, 59, 11660
78	Asymmetric Total Synthesis of (+)-Waihoensene	Qu, Y.Z.; Wang, Z.Y.; Zhang, Z.C.; Zhang, W.D.; Huang, J.; Yang, Z	J. Am. Chem. Soc. 2020, 142, 6511
79	Protecting-Group-Free Total Syntheses of (±)-Norascyrones A and B	Cao, T.T.; Zhu, L.; Lan, Y.; Huang, J.; Yang, Z	Org. Lett. 2020, 22, 2517
80	Asymmetric Total Synthesis of	Yan, Z.M.; Zhao, C.B.;	Org. Lett.



	(-)-Guignardones A and B	Gong, J.X.; Yang, Z	<b>2020</b> , 22, 1644
81	Concise gram-scale synthesis of Euphorikanin A skeleton through a domino ring-closing metathesis strategy	Shi, L.L.; He, Y.D.; Gong, J.X.; Yang, Z	<i>Chem. Commun.</i> <b>2020</b> , 56, 531
82	Symmetric C···H···C Hydrogen Bonds Predicted by Quantum Chemical Calculations	Yi Wang and Zhi-Xiang Yu*	<i>J. Org. Chem.</i> <b>2020</b> , 85, 2, 397–402
83	Mechanistic Study on Gold-Catalyzed Cycloisomerization of Dienenynes Involving Aliphatic C–H Functionalization and Inspiration for Developing a New Strategy to Access Polycarbocycles	Yi Wang, Pei-Jun Cai, and Zhi-Xiang Yu*	<i>J. Am. Chem. Soc.</i> <b>2020</b> , 142, 6, 2777–2786
84	Transient-axial-chirality controlled asymmetric rhodium-carbene C(sp <sup>2</sup> )-H functionalization for the synthesis of chiral fluorenes	Kuiyong Dong, Xing Fan, Chao Pei, Yang Zheng, Sailan Chang, Ju Cai, Lihua Qiu, Zhi-Xiang Yu and Xinfang Xu	<i>Nat. Commun.</i> <b>2020</b> , 11, 2363
85	Lewis Base-Catalyzed Amino-Acylation of Aryllallenes via C–N Bond Cleavage: Reaction Development and Mechanistic Studies	Zheng-Bing Zhang, Yusheng Yang, Zhi-Xiang Yu*, and Ji-Bao Xia*	<i>ACS Catal.</i> <b>2020</b> , 10, 10, 5419–5429
86	Synergy of activating substrate and introducing C–H···O interaction to achieve Rh <sub>2</sub> (II)-catalyzed asymmetric cycloisomerization of 1,n-enynes	Rui Wu, Kai Chen, Jun Ma, Zhi-Xiang Yu and Shifa Zhu	<i>Science China Chemistry</i> <b>2020</b> , 63, 1230–1239
87	Remote gamma-C(sp <sup>3</sup> )-H Alkylation of Aliphatic Carboxamides via an Unexpected Regiodetermining Pd Migration Process: Reaction Development and Mechanistic Study	Ya Li, Pan Zhang, Yue-Jin Liu, Zhi-Xiang Yu*, and Bing-Feng Shi*	<i>ACS Catal.</i> <b>2020</b> , 10, 15, 8212–8222
88	Mechanism and Regioselectivity of Intramolecular [2+2] Cycloaddition of Ene–Ketenes: A DFT Study	Xing Fan, Pan Zhang, Yi Wang, Zhi-Xiang Yu	<i>Eur. J. Org. Chem.</i> , <b>2020</b> , 37, 5985-5994
89	Transition-Metal-Catalyzed Cycloadditions for the Synthesis of Eight-Membered Carbocycles: an Update from 2010 to 2020	Wang Lu-Ning, Yu Zhi-Xiang,	<i>Chinese Journal of Organic Chemistry</i> , <b>2020</b> , 40, 3536-3558.
90	Ultrasensitive multiplex detection of single nucleotide polymorphisms based on short-chain hybridization combined with online preconcentration of capillary electrophoresis	Qian-Yu Zhou, Li-Juan Wang, Ying Liu, Xin-Ying Zhong, Jia-Hui Dong, Ying-Lin Zhou*, and Xin-Xiang Zhang	<i>Analytical Chemistry</i> , <b>2020</b> , 92, 10620-10626
91	Synthesis of a pH-responsive functional covalent organic framework via facile and rapid one-step postsynthetic modification and	Yu-Fang Ma, Fang Yuan, Yue Yu, Ying-Lin Zhou*, and Xin-Xiang	<i>Analytical Chemistry</i> , <b>2020</b> , 92, 1424-1430

	its application in highly efficient N1-methyladenosine extraction	Zhang*	
92	5hmC-MIQuant: ultrasensitive quantitative detection of 5-Hydroxymethylcytosine in low-input cell-free DNA samples	Fang Yuan, Yue Yu, Ying-Lin Zhou*, and Xin-Xiang Zhang	<i>Analytical Chemistry</i> , <b>2020</b> , <i>92</i> , 1605-1610
93	Ultrasensitive detection of microRNA based on a homogeneous label-free electrochemical platform using G-triplex/methylene blue as a signal generator	Ling-Li Zhao , Hui-Yu Pan , Xin-Xiang Zhang , and Ying-Lin Zhou *	<i>Analytica Chimica Acta</i> , <b>2020</b> , <i>1116</i> , 62-69
94	Snake venom characteristic peptides: novel fingerprints for species identification by sheathless capillary electrophoresis-electrospray ionization-mass spectrometry	Ying Liu, Xiao-Hui Zhang, Yue Yu, Hong-Xu Chen*, Ying-Lin Zhou *, and Xin-Xiang Zhang*	<i>Analyst</i> , <b>2020</b> , <i>145</i> , 5027–5031
95	High-throughput ultra-sensitive discrimination of single nucleotide polymorphism via click chemical ligation	Qian-Yu Zhou, Xin-Ying Zhong, Ling-Li Zhao, Li-Juan Wang, Ying-Lin Zhou *	<i>Analyst</i> , <b>2020</b> , <i>145</i> , 172–176
96	DNAzyme-powered nucleic acid release from solid supports	Ting Cao, Yongcheng Wang, Ye Tao, Lexiang Zhang, Ying-Lin Zhou*, Xin-Xiang Zhang*, John A. Heyman*, and David A. Weitz *	<i>Chemical Communications</i> , <b>2020</b> , <i>56</i> , 647-650
97	Dissolvable polyacrylamide beads for high-throughput droplet DNA barcoding	Yongcheng Wang*, Ting Cao, Jina Ko, Yinan Shen, Will Zong, Kuanwei Sheng, Wenjian Cao, Sijie Sun, Liheng Cai, Ying-Lin Zhou, Xin-Xiang Zhang, Chenghang Zong, Ralph Weissleder*, and David Weitz*	<i>Advance Science</i> , <b>2020</b> , <i>7</i> , 1903463
98	Fluorescence imaging of intracellular nucleases—A review	Xiangjian Cao; Ying Sun; Peng Lu; Meiping Zhao*	<i>Analytica Chimica Acta</i> , <b>2020</b> , <i>1137</i> , 225-237
99	Construction of specific and reversible nanoreceptors for proteins via sequential surface-imprinting strategy	Muhua Zhao, Shan Huang, Huaisyuan Xie, Jiayu Wang, Xiaoli Zhao, Mengyuan Li,* and Meiping Zhao*	<i>Analytical Chemistry</i> , <b>2020</b> , <i>92</i> , 10540–10547
100	A target-driven DNA-based molecular machine for rapid and homogeneous detection	Haocheng Tan, Lu Chen, Xinyi Li, Mengyuan Li*,	<i>Analyst</i> , <b>2020</b> , <i>145</i> , 880 – 886.

	of arginine-vasopressin	Meiping Zhao*	
101	Radical Philicity Inversion in Co- and Fe-Catalyzed Hydrogen-Atom-Transfer-Initiated Cyclizations of Unsaturated Acylsilanes	Wu, B.; Zhu, R.*	<i>ACS Catalysis</i> , <b>2020</b> , <i>10</i> , 510-515
102	Dual Cobalt and Photoredox Catalysis Enabled Intermolecular Oxidative Hydrofunctionalization.”	Sun, H.-L.; Yang, F.; Ye, W.-T.; Wang, J.-J; Zhu, R.*	<i>ACS Catalysis</i> , <b>2020</b> , <i>10</i> , 4983.
103	Recent Advances in CoSalen-Catalyzed Radical Reactions	Yin, Y.-N.; Ouyang, D.-C.; Wang, J.-J; Zhu, R.*	<i>Sci. Sin. Chim</i> , <b>2020</b> , <i>50</i> , 1217
104	The evolving capabilities of enzyme-mediated proximity labeling.	Zhou, Y. and <b>Zou, P.*</b>	<i>Curr. Opin. Chem. Biol.</i> <b>2020</b> , <i>60</i> , 30-38
105	A clickable APEX probe for proximity-dependent proteomic profiling in yeast.	Li, Y., Tian, C., Liu, K., Zhou, Y., Yang, J.* and <b>Zou, P.*</b>	<i>Cell Chem. Biol.</i> <b>2020</b> , <i>27</i> , 858-865.
106	Exosome alpha-synuclein release in plasma may be associated with postoperative delirium in hip fracture patients.	Yuan, Y. <sup>#</sup> , Li, Z. <sup>#</sup> , Yang, N. <sup>#</sup> , Han, Y., Ji, X., Han, D., Wang, X., Li, Y., Liu, T., Yuan, F., He, J., Liu, Y., Ni, C., <b>Zou, P.</b> , Wang, G.*, Guo, X.* and Zhou, Y.*	<i>Front Aging Neurosci.</i> <b>2020</b> , <i>12</i> , 67.
107	Chromophore-assisted proximity labeling of DNA reveals chromosomal organization in living cells	Ding, T. <sup>#</sup> , Zhu, L. <sup>#</sup> , Fang, Y., Liu, Y., Tang, W. and <b>Zou, P.*</b>	<i>Angew.Chem. Int. Ed.</i> <b>2020</b> , 22933-22937.
108	Protocol for proximity-dependent proteomic profiling in yeast cells by APEX and Alk-Ph probe.	Li, Y., Liu, K., Zhou, Y., Yang, J.* and <b>Zou, P.*</b>	<i>STAR Protoc.</i> <b>2020</b> , <i>1</i> , 100137.