

2021 年度实验室发表论文目录

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1	Multi-Dimensional Organic Mass Cytometry: Simultaneous Analysis of Proteins and Metabolites on Single Cells	Shuting Xu, Mingxia Liu, Yu Bai*, and Huwei Liu	<i>Angew. Chem. Int. Ed.</i> 2021 , <i>60</i> , 1806–1812
2	Glutathione-functionalized two-dimensional cobalt sulfide nanosheets for rapid and highly efficient enrichment of N-glycopeptides	Wenjie Gao, Yu Bai*, and Huwei Liu	<i>Microchimica Acta</i> , 2021 , <i>188</i> , 8, 274.
3	One-step hexaplex immunoassays by on-line paper substrate-based electrospray ionization mass spectrometry for combined cancer biomarker screening	Shuting Xu, Mingxia Liu, Jie Feng, Guangtao Yan, Yu Bai*, and Huwei Liu	<i>Chem. Sci.</i> , 2021 , <i>12</i> , 4916 - 4924
4	Separation and determination of 3-hydroxyaspartate by online concentration capillary electrophoresis/laser-induced fluorescence with microwave-assisted derivatization	Mingxia Liu, Lixia Chen, Xiangjun Li*, Jinghua Meng, Yu Bai*, and Huwei Liu	<i>J. Sep. Sci.</i> , 2021 , <i>44</i> , <i>19</i> , 3646-3653
5	基于信号放大策略的超灵敏质谱新方法及其应用	秦少杰, 缪代禹, 白玉*, 刘虎威	<i>质谱学报</i> , 2021 , <i>5</i> , 744-754
6	A far-red hybrid voltage indicator enabled by bioorthogonal engineering of rhodopsin on live neurons	Shuzhang Liu, Chang Lin, Yongxian Xu, Huixin Luo, Luxin Pen, Xiangmei Zeng, Huangtao Zheng, Peng R. Chen* and Peng Zou*	<i>Nature Chemistry</i> , 2021 , <i>13</i> , 472-479
7	Spatiotemporally resolved subcellular phosphoproteomics	YanJun Liu, Ruxin Zeng, Ruixuan Wang, Yicheng Weng, Ruixiang Wang, Peng Zou*, and Peng R. Chen*	<i>Proceedings of the National Academy of Sciences</i> , 2021 , <i>118</i> , e2025299118
8	Covalently Engineered Nanobody Chimeras for Targeted Membrane Protein Degradation	Heng Zhang, Yu Han, Yuanfan Yang, Feng Lin, Kexin Li, Linghao Kong, Hongxiang Liu, Yongjun Dang, Jian Lin,* and Peng R. Chen*	<i>Journal of the American Chemical Society</i> , 2021 , <i>143</i> , 16377-16382
9	CAGE-prox: A Unified Approach for Time-Resolved Protein Activation in Living Systems	Jie Wang, Yuan Liu, Yanjun Liu, Chu Wang*, Peng R Chen*	<i>Current Protocols</i> , 2021 , <i>1</i> , e180
10	Unleashing the Power of Bond	Jie Wang, Xin Wang, Xinyuan	<i>ACS Central Science</i> ,

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11	Bioorthogonal Photocatalytic Decaging-Enabled Mitochondrial Proteomics	Zongyu Huang, Ziqi Liu, Xiao Xie, Ruxin Zeng, Zujie Chen, Linghao Kong, Xinyuan Fan,*and Peng R. Chen*	<i>Journal of the American Chemical Society</i> , 2021 , 143, 18714-18720
12	Click-ExM enables expansion microscopy for all biomolecules	De-en Sun, Xinqi Fan, Yujie Shi, Hao Zhang, Zhimin Huang, Bo Cheng, Qi Tang,Wei Li, Yuntao Zhu, Jinyi Bai, Wei Liu, Yuan Li, XiaotingWang,Xiaoguang Lei and Xing Chen*	<i>Nat. Methods</i> , 2021 ,18(1),107-113
13	Chemical Tagging of Protein Lipoylation	Qi Tang+, Yilan Guo+, Liying Meng, and Xing Chen*	<i>Angew. Chem. Int. Ed.</i> 2021 , 18(1):107-113
14	Quantitative and Site-Specific Chemoproteomic Profiling of Protein O-GlcNAcylation in the Cell Cycle	Jialin Liu,Yi Hao,Yanwen He, Xiang Li, De-en Sun, Yang Zhang, Peng-Yuan Yang,* and Xing Chen*	<i>ACS Chem. Biol.</i> 2021 ;16(10):1917-1923
15	Glycan Labeling and Analysis in Cells and In Vivo	Bo Cheng, Qi Tang,Che Zhang,and Xing Chen*	<i>Annu. Rev. Anal. Chem.</i> 2021 . 14(1):363–87
16	Selective Nitration of Open-Cage [60]Fullerene Derivatives by Ponzio Reaction	Hao Zhang, Rui Gao, Zhen Liu, Xiaoge Wang, Jie Su,* and Liangbing Gan*	<i>Eur. J. Org. Chem.</i> 2021 , 30, 4288–4292
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18	RNA demethylation increases the yield and biomass of rice and potato plants in the field trials.	Qiong Yu#, Shun Liu#, Lu Yu, Yu Xiao, Shasha Zhang, Xueping Wang, Yingying Xu, Hong Yu, Yulong Li, Junbo Yang, Jun Tang, Hong-Chao Duan, Lian-Huan Wei, Haiyan Zhang, Jiangbo Wei, Qian Tang, Chunling Wang, Wutong Zhang, Ye Wang, Peizhe Song, Qiang Lu, Wei Zhang, Shunqing Dong, Baoan Song*, Chuan He*, Guifang Jia*	<i>Nature Biotechnology</i> , 2021 , 39, 1581–1588
19	R-loop resolution promotes co-transcriptional chromatin silencing	Congyao Xu#, Zhe Wu#, Hong-Chao Duan#, Xiaofeng Fang, Guifang Jia*, Caroline Dean*	<i>Nature Communications</i> , 2021 , 12, 1790

20	Arabidopsis N ⁶ -methyladenosine reader CPSF30-L recognizes FUE signal to control polyadenylation site choice in liquid-like nuclear body	Peizhe Song [#] , Junbo Yang [#] , Chunling Wang, Qiang Lu, Linqing Shi, Subiding Tayier, Guifang Jia*	<i>Molecular Plant</i> , 2021 , 14, 571-587
21	RNA m ⁶ A modification functions in larval development and caste differentiation in honeybee (<i>Apis mellifera</i>)	Miao Wang [#] , Yu Xiao [#] , Yan Li [#] , Xiaoying Wang, Suzhen Qi, Ye Wang, Liuwei Zhao, Kai Wang, Wenjun Peng, Guan-Zheng Luo*, Xiaofeng Xue*, Guifang Jia*	<i>Cell Report</i> , 2021 , 34(1)108580
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23	RNA methylation in mammalian development and cancer	Song Peizhe, Tayier Subiding, Cai Zhihe, Guifang Jia*	<i>Cell Biology Toxicology</i> , 2021 , 37,811-831
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27	Concise total synthesis of nauclefine: A regioselective Rhodium(III)-catalyzed oxidative C-H activation approach	Kaiqi Chen, Haoran Dong, Jin Wang, Xiaoguang Lei*	<i>Tetrahedron</i> , 2021 , 87, 132120
28	Dynamic changes of phosphatidylinositol and phosphatidylinositol 4-phosphate levels modulate H ⁺ -ATPase and Na ⁺ /H ⁺ antiporter activities to maintain ion homeostasis in Arabidopsis under salt stress	Yongqing Yang, Xiuli Han, Liang Ma, Yujiao Wu, Xiao Liu, Haiqi Fu, Guoyong Liu, Xiaoguang Lei*, Yan Guo*	<i>Molecular Plant</i> , 2021 , 14(12),2000-2014
29	Structure-guided optimization of D-captopril for discovery of potent NDM-1 inhibitors	Guixing Ma, Sanshan Wan, Kebin Wu, Weizhe Zhang, Ashfaq Ahmad, QuanHao*, Xiaoguang Lei*, Hongmin Zhang*	<i>Bioorganic&Medicinal Chemistry</i> , 2021 , 29, 115902
30	Enzymatic control of endo- and exo-stereoselective Diels–Alder	Lei Gao, Yike Zou, Xiaojing Liu, Jun Yang, Xiaoxia Du, Jin Wang,	<i>Nature Catalysis</i> , 2021 ,4,1059-1069

	reactions with broad substrate scope	Xinshui Yu, Junping Fan, Mingxuan Jiang, Yuli Li, K. N. Houk* and Xiaoguang Lei*	
31	Transformable Helical Self-Assembly for Cancerous Golgi Apparatus Disruption	Rong Sheng Li, Jiahui Liu, Hu Shi,* Ping Ping Hu, Yao Wang, Peng Fei Gao, Jian Wang, Moye Jia, Hongwei Li, Yuan Fang Li, Chengde Mao,* Na Li,* and Cheng Zhi Huang*	<i>Nano Lett.</i> 2021 , <i>21</i> (19), 8455–8465
32	Aggregation-Enhanced Energy Transfer for Mitochondria-Targeted ATP Ratiometric Imaging in Living Cells	Rong Sheng Li,# Jiahui Liu,# Yuan Yan, Chuanyang Su, Tiancheng Lai, Yunwen Liao, Yuan Fang Li, Na Li,* and Cheng Zhi Huang*	<i>Anal. Chem.</i> 2021 , <i>93</i> (34), 11878–11886
33	Nonamplification Multiplexed Assay of Endonucleases and DNA Methyltransferases by Colocalized Particle Counting	Guangyu Tao, Xiao Xu, Rong Sheng Li, Feng Liu, and Na Li*	<i>ACS Sens.</i> , 2021 , <i>6</i> , 1321–1329
34	Effective Treatment of SARS-CoV-2-infected Rhesus Macaques by Attenuating Inflammation	Shuaiyao Lu, Jingjing Zhao, Jiebin Dong, Hongqi Liu, Yinhua Zhu, Honggang Li, Liping Liu, Yun Yang, Shicheng Sun, Yifan Song, Yuan Zhao, Ruiping She, Tuoping Luo, Hongkui Deng* ,Xiaozhong Peng*	<i>Cell Research</i> , 2021 , <i>31</i> , 229-232
35	Dealkenylative Ni-Catalyzed Cross-Coupling Enabled by Tetrazine and Photoexcitation	Si-Cong Chen, Qi Zhu, Yuhui Cao, Chen Li, Yinliang Guo, Lingran Kong, Jinteng Che, Zhixian Guo, Han Chen, Nan Zhang, Xianhe Fang, Jia-Tian Lu, and Tuoping Luo*	<i>J. Am. Chem. Soc.</i> 2021 , <i>143</i> , 14046–14052
36	A Stable Triplet-Ground-State Conjugated Diradical Based on a Diindenopyrazine Skeleton	Zi-Yuan Wang, Ya-Zhong Dai, Li Ding, Bo-Wei Dong, Shang-Da Jiang, Jie-Yu Wang,* and Jian Pei	<i>Angewandte Chemie International Edition</i> , 2021 , <i>60</i> , 4594-4598
37	BN Fused Diazulenyl Carbazole: Synthesis, Structure, and Properties	Fang-Dong Zhuang, Jing-Hui Yang, Ze-Hao Sun, Peng-Fei Zhang, Qi-Ran Chen, Jie-Yu Wang,* and Jian Pei*	<i>Chinese Journal of Chemistry</i> , 2021 , <i>39</i> , 909-912
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41	Chemical labeling of protein 4'-phosphopantetheinylation	Nan Chen and Chu Wang*	<i>Chembiochem</i> , 2021 , 22 (8), 1357-1367
42	Quantitative chemoproteomics reveals o-glcacylation of cystathionine gamma-lyase (cse) represses trophoblast syncytialization	Juan Liu, Xuan Shao, Wei Qin, Yanling Zhang, Feihong Dang, Qian Yang, Xin Yu, Yu-Xia Li, Xing Chen ,* Chu Wang* and Yan-Ling Wang*	<i>Cell Chem Biol</i> , 2021 , 28 (6), 788-801 e5.
43	Acrolein-conjugated proteomics in brains of adult c57bl/6 mice chronically exposed to acrolein and aged app/ps1 transgenic ad mice	Chen Chen, Ying Chen, Junfeng Lua, Ziwei Chen, Chu Wang,* , Rongbiao Pi*	<i>Toxicol. Lett.</i> 2021 , 344, 11-17
44	Chemoproteomic profiling of itaconations in salmonella	Yanling Zhang, Wei Qin, Dongyang Liu, Yuan Liu and Chu Wang *	<i>Chem. Sci.</i> 2021 , 12 (17), 6059-6063.
45	Global mapping of metalloproteomes	Xin Zeng, Yao Cheng, and Chu Wang*	<i>Biochemistry</i> , 2021 , 60(46):3507-3514
46	Cimage2.0: An expanded tool for quantitative analysis of activity-based protein profiling (abpp) data. J	Jinjun Gao, Yuan Liu, Fan Yang, Xuemin,Chen,Chu Wang*	<i>Proteome Res.</i> 2021 , 20 (10), 4893-4900.
47	Generation of a-Boryl Radicals and Their Conjugate Addition to Enones: Transition-Metal-Free Alkylation of gem-Diborylalkanes	Chaoqiang Wu, Zhicheng Bao, Bowen Dou, and Jianbo Wang*	<i>Chem. Eur. J.</i> 2021 , 27, 2294-2298.
48	Transition-Metal-Catalyzed Polymerization of Cyclopropenes	Zhang Zepeng, Gao Yunpeng, Shufeng Chen,* Jianbo Wang*	<i>Chin. J. Org. Chem.</i> 2021 , 41, 1888-1896.
49	Palladium-Catalyzed Oxidative Coupling of Allenic C-H Bond with alpha-Diazo Esters: Synthesis of [3]Dendralenes	Shichao Li, Bo Hou and Jianbo Wang*	<i>J. Org. Chem.</i> 2021 , 86, 5371–5379.
50	Recent Development of Aryl Diazonium Chemistry for the Derivatization of Aromatic Compounds	Fanyang Mo,* Di Qiu, Lei Zhang and Jianbo Wang*	<i>Chem. Rev.</i> 2021 , 121, 5741–5829.
51	Synthesis of Alkenylboronates from N-Tosylhydrazones through	Yifan Ping, Rui Wang, Qianyue Wang, Taiwei Chang, JingfengHuo,	<i>J. Am. Chem. Soc.</i> 2021 , 143,

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52	Palladium-Catalyzed Enantioselective Carbene Insertion into Carbon–Silicon Bonds of Silacyclobutanes	JingfengHuo, Kangbao Zhong, YazhenXue, MyeeMayLyu, Yifan Ping, Zhenxing Liu, Yu Lan*, and Jianbo Wang*	<i>J. Am. Chem. Soc.</i> 2021 , <i>143</i> , 12968–12973.
53	Azacycle-Directed Formal Aromatic C(sp ²)–H Insertion with Cr(0) Fischer Carbene Complex via Oxidative Hydrogen Migration	Xing-Qi Yao, Wen-Yan Tong, Kang Wang, Shuanglin Qu,* and Jianbo Wang*	<i>Organometallics</i> 2021 , <i>40</i> , 3526-3534.
54	Palladium-Catalyzed Living/Controlled Vinyl Addition Polymerization of Cyclopropenes	Zepeng Zhang, Yunpeng Gao, Shufeng Chen, and Jianbo Wang*	<i>J. Am. Chem. Soc.</i> 2021 , <i>143</i> , 17806–17815.
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56	Metalla-aromatics: Planar, Nonplanar, and Spiro	Yongliang Zhang, Chao Yu, Zhe Huang, Wen-Xiong Zhang, Shengfa Ye, Junnian Wei*, and Zhenfeng Xi*	<i>Acc. Chem. Res.</i> 2021 , <i>54</i> , 2323–2333.
57	Synthesis and Reactivity of Side-Arm Phosphine Functionalized Amidinatosilylene- and Amidinatogermylene-Supported Nickel(0) Complexes	Mingdong Zhong, Junnian Wei, Wen-Xiong Zhang, and Zhenfeng Xi*	<i>Organometallics</i> , 2021 , <i>40</i> , 310–313.
58	Dinitrogen Activation of Cyclopentadienyl-Phosphine–Iron Complexes of Three Different Valences	Gao-Xiang Wang, Jianhao Yin, Jiapeng Li, Zhu-Bao Yin, Botao Wu, Junnian Wei*, Wen-Xiong Zhang, and Zhenfeng Xi*	<i>CCS Chem.</i> 2021 , <i>3</i> , 308–316.
59	Dinitrogen Functionalization Affording Structurally Well-Defined Cobalt Diazenido Complexes	Mingdong Zhong, Xianlu Cui, Botao Wu, Gao-Xiang Wang, Wen-Xiong Zhang, Junnian Wei*, Lili Zhao*, and Zhenfeng Xi*	<i>CCS Chem.</i> 2021 , <i>3</i> , 856–863.
60	A Tris-spiro Metalla-aromatic System Featuring Craig-Möbius Aromaticity	Zhe Huang, Yongliang Zhang, Wen-Xiong Zhang, Junnian Wei*, Shengfa Ye*, and Zhenfeng Xi*	<i>Nat. Commun.</i> 2021 , <i>12</i> , 1319.
61	C,C- and C,N-Chelated Organocopper Compounds	Liang Liu, Hui Chen, Zhenqiang Yang, Junnian Wei*, and Zhenfeng Xi*	<i>Molecules</i> , 2021 , <i>26</i> , 5806.
62	Stereoselective Synthesis of (±)-Cephanolide B	Anding Li, Ziru He, Bingyan Liu, Zhen Yang,* and Zichun Zhang*	<i>Org. Lett.</i> 2021 , <i>23</i> , 9237–9240

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86	A novel miniaturized homogeneous label-free electrochemical biosensing platform combining integrated microelectrode and functional nucleic acid	Fangming Chen, Xingchuang Fu, Yao Meng, Mingrui Jiang, Jian Wang*, Ying-Lin Zhou*, De-Wen Zhang*	<i>Analytica Chimica Acta</i> , 2021 , <i>1158</i> , 338415
87	Rapid determination and continuous monitoring of propofol in microliter whole blood sample during anesthesia by paper spray ionization-mass spectrometry	Ying Liu, Xiao-Hui Zhang, Wei-Dong Mi, Ying-Lin Zhou*, Chang-Sheng Zhang*, Xin-Xiang Zhang*	<i>Analytical and Bioanalytical Chemistry</i> , 2021 , <i>413</i> , 279-287
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