Assistant Professor Zhongjun Li

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Ph. D. in School of Computer Science and Engineering, Electronic Information Technology, Macau University of Science and Technology
Master in School of Science, Physics, Beijing University of Chemical Technology
Bachelor in School of Mathematics and Physics, Materials Physics, Shenyang University of Chemical Technology

Fundamentals of Materials Science, Materials Analysis and Testing Technology

Design and applications (water quality monitoring, biomarkers such as proteins and RNA) of photoelectrochemical materials
Design of theranostic reagents for treatment of tumors, neurodegenerative diseases, skin diseases (hairals

Today **2019**, *15*, 297. DOI: 10.1016/j.apmt.2019.02.002
(5) Cheng, G.#; **Li, Z.#**; Liu, Y.; Ma, R.; Chen, X.; Liu, W.; Song, Y.; Zhang, Y. ; Yu, G. ; Wu, Z. ; Chen, T. "Swiss Army Knife" black phosphorus-based nanodelivery platform for synergistic antiparkinsonian therapy via remodeling the brain microenvironment. *J. Control Release.* **2022,** *353*, 752. DOI: 10.1016/j.jconrel.2022.12.024
(6) Xiong, S.#; **Li, Z.#**; Liu, Y.; Wang, Q.; Luo, J.; Chen, X.; Xie, Z.; Zhang, Y.; Zhang, H. ; Chen, T. Brain-targeted delivery shuttled by black phosphorus nanostructure to treat Parkinson's disease. Biomaterials. **2020**, *260*, 120339. DOI: 10.1016/j.biomaterials.2020.120339
(7) Zhang, L.#; **Li, Z.#**; Yang, J.; Zhou, J.; Zhang, Y.; Zhang, H.; Li, Y. A Fully Integrated Flexible Tunable Chemical Sensor Based on Gold-Modified Indium Selenide Nanosheets. *ACS Sens.* **2022**, *7* (4), 1183. DOI: 10.1021/acssensors.2c00281
(8) Qiao, H.#; **Li, Z.#**; Huang, Z.; Ren, X.; Kang, J.; Qiu, M.; Liu, Y.; Qi, X. ; Zhong, J.; Zhang, H. Self-powered photodetectors based on 0D/2D mixed dimensional heterojunction with black phosphorus quantum dots as hole accepters. *Appl. Mater. Today* **2020**, *20*, 100765. DOI: 10.1016/j.apmt.2020.100765
(9) Qiao, H.#; **Li, Z.#**; Liu, F.#; Ma, Q.; Ren, X.; Huang, Z.; Liu, H.; Deng, J.; Zhang, Y.; Liu, Y.; Qi, X. ; Zhang, H. Au Nanoparticle Modification Induces Charge-Transfer Channels to Enhance the Electrocatalytic Hydrogen Evolution Reaction of InSe Nanosheets. *ACS Appl. Mater. Inter.* **2022**, *14* (2), 2908. DOI: 10.1021/acsami.1c21421
(10) Zhang, L.#; **Li, Z.#**; Liu, J.; Peng, Z.; Zhou, J.; Zhang, H. ; Li, Y. Optoelectronic Gas Sensor Based on Few-Layered InSe Nanosheets for NO2 Detection with Ultrahigh Antihumidity Ability. *Anal. Chem.* **2020**, *92* (16), 11277. DOI: 10.1021/acs.analchem.0c01941
(11) Ren, X.#; **Li, Z.#**; Qiao, H.; Liang, W.; Liu, H.; Zhang, F.; Qi, X. ; Liu, Y.; Huang, Z.; Zhang, D.; Li, J.; Zhong, J.; Zhang, H. Few-

C **2021**, *9* (18), 5893. DOI: 10.1039/d1tc00727k
(20) He, Z.#; **Li, Z.#**; Wang, Z.; Zhang, C.; Chen, T.; Zhao, T.; Xu, C.; Zhang, Y. ; Liu, J. Two-dimensional gold decorated indium selenide for near-infrared and mid-infrared ultrafast photonics. *Opt. Laser Technol.* **2022**, *150*, 107920. DOI: 10.1016/j.optlastec.2022.107920
(21) Liu, S.#; **Li, Z.#**; Ge, Y.; Wang, H.; Yue, R.; Jiang, X.; Li, J.; Wen, Q. ; Zhang, H. Graphene/phosphorene nano-heterojunction: facile synthesis, nonlinear optics, and ultrafast photonics applications with enhanced performance. *Photon. Res.* **2017**, *5* (6), 662. DOI: 10.1364/Prj.5.000662
(22) **Li, Z.**; Hou, Z. ; Song, W. ; Liu, X.; Cao, W.; Shao, X.; Cao, M. Unusual continuous dual absorption peaks in Ca-doped BiFeO3 nanostructures for broadened microwave absorption. *Nanoscale* **2016**, *8* (19), 10415. DOI: 10.1039/c6nr00223d
(23) **Li, Z.**; Hou, Z. ; Song, W.; Liu, X.; Wang, D.; Tang, J.; Shao, X. Mg-substitution for promoting magnetic and ferroelectric properties of BiFeO3 multiferroic nanoparticles. *Mater. Lett.* **2016**, *175*, 207. DOI: 10.1016/j.matlet.2016.04.016

refers to co-first author; * refers to corresponding author

(1) November 2022, Clarivate, 2022 Global "Highly Cited Scientist"
(2) January 2023, Optical Society of China, Third-class Award in 2022 Optical Technology of Chinese Optical Society
(3) June 2020, Shenzhen Human Resources and Social Security Bureau, Overseas High-caliber Personal (Level C)
(4) May 2022, Light: Science & Applications, Excellent Paper
(5) October 2018, Macao Science and Technology Development Fund, Macao Postgraduate Science and Technology Research and Development Award (once every 2 years, the only one in this major)
(6) June 2016, Beijing University of Chemical Technology,