



姓名： 李健

学历： 研究生

学位： 博士

职务： 教师

职称： 教授

联系方式： lij@pzhz.edu.cn 研究方向： 生物化工

■教育经历

- 博士（2007.09—2011.06）：天津科技大学，生化工程专业，方向：微藻生化工程
- 硕士（1998.05—2001.05）：美国夏威夷大学，生物工程专业，方向：微藻生物工程
- 本科（1989.09—1993.06）：南开大学，生物物理专业

■工作经历

- 2017.10—今：攀枝花学院，生物与化工学院学院，副教授、教授
- 2014.09—2017.05：新西兰顶级生物技术有限责任公司，技术总监
- 2011.06—2014.06：比利时法语鲁汶大学，地球与生命研究院，研究员
- 2004.02—2007.09：深圳市东西方生物技术有限责任公司，技术总监
- 2001.05—2002.02：美国梅勒制药有限责任公司，高级工程师
- 1993.07—1998.05：中国原子能科学研究员，助理工程师

■主持及参与科研项目

- 四川省科技厅引进国境外人才项目：红球藻兼养培养设施研发，2022-2023，主持人
- 人社部中国留学归国人员创业启动计划重点项目：培养红球藻生产虾青素，2021-2014，主持人
- 四川省人社厅留学归国人员创业启动计划项目资助：培养红球藻生产虾青素，2020-2023，主持人
- 攀枝花市科技计划项目：微藻生产虾青素生理生化与培养工艺研发，2020-2023，主持人
- 四川省科技计划项目：微藻培养生产虾青素生产工艺研究，2019-2021,主持人
- 攀枝花科技计划项目：红球藻培养生产虾青素新工艺研发，2018-2020,主持人

■出版教材或著作

- Fakhra Liaqat*, Mahammed Ilyas Khazi, Muhammad Akram, Rengin Eltem, and Jian Li (2022) Chapter-15: Antimicrobial Studies of Various Metal Oxide Nanomaterials; in: Muhammad Akram, Rafaqat Hussain, and Faheem Butt (Eds.) Metal Oxide-Carbon Hybrid Materials; Academic Press, Elsevier Publishers, USA; Paperback ISBN: 9780128226940.
- Xin Li, Xiaoqian Wang, Duanpeng Yang, Zhengquan Gao, and Jian Li* (2021) Chapter-6: Optimization of Astaxanthin Production Processes from Microalga Haematococcus; In: Ravishankar GA and Ranga Rao A (Eds.) Global Perspectives on Astaxanthin: from Industrial Production to Food, Health, and Pharmaceutical Applications; Academic Press, Elsevier Publishers, USA; Paperback ISBN: 9780128233047, eBook ISBN: 9780128233054.

■发表学术论文

- Lulu Wang, Yan Sun, Ruihao Zhang, Kehou Pan, Yuhang Li, Ruibing Wang, Lin Zhang, Chengxu Zhou, Jian Li, Yun Li, Baohua Zhu, Jichang Han*. Enhancement of hemostatic properties of Cyclotella cryptica frustule through genetic manipulation. Biotechnology for Biofuels and Bioproducts 16, 136 (2023) SCI收录(WOS:000724882100001), 中

院二区, 2023IF=6.9.

- Mahammed Ilyas Khazi, Fakhra Liaqat, Badr Mohamed, Daochen Zhu and Jian Li*. Astaxanthin production from the microalga *Haematococcus lacustris* with a dual substrate mixotrophy strategy. *Biotechnology Journal* (2023), 00, e2300095. <https://doi.org/10.1002/biot.202300095> SCI收录(WOS:000724882100001),中科院三区, 2023IF=5.7.
- Besma Harzallah, Samir B. Grama*, Hacène Bousseboua, Yves Jouanneau, Jixiang Yang, and Jian Li*. Isolation and characterization of Indigenous Bacilli strains from an oil refinery wastewater with potential applications for phenol/cresol bioremediation. *Journal of Environmental Management* (2023) 332 117322. doi.org/10.1016/j.jenvman.2023.117322 SCI收录(WOS:000724882100001),中科院一区, 2023IF=8.7.
- Badr A. Mohamed*, Roger Ruan, Muhammad Bilal, Nadeem A. Khan, Mukesh Kumar Awasthi, Mariam A. Amer, Lijian Leng, Mohamed A. Hamouda, Dai-Viet Nguyen Vo*, and Jian Li. Co-pyrolysis of sewage sludge and biomass for stabilizing heavy metals and reducing biochar toxicity: A review. *Environmental Chemistry Letters* (2022). doi.org/10.1007/s10311-022-01542-6 SCI收录(WOS:000724882100001),中科院一区, 2023IF=13.6.
- Nour Elaimane Bouzidi, Samir Borhane Grama*, Aboubakeur Essedik Khelef, Duanpeng Yang, and Jian Li*. Inhibition of antioxidant enzyme activities enhances carotenogenesis in microalga *Dactylococcus dissociatus* MT1. *Frontiers in Bioengineering and Biotechnology* (2022) 10:1014604. [doi:10.3389/fbioe.2022.1014604](https://doi.org/10.3389/fbioe.2022.1014604) SCI收录(WOS:000724882100001),中科院二区, 2023IF=6.9.
- Fakhra Liaqat, Mahammed Ilyas Khazi, Ali Bahadar, He Lu, Ayesha Aslam, Rabia Liaquat, Spiros N. Agathos, and Jian Li*. Mixotrophic Cultivation of Microalgae for Carotenoid Production[J]. *Reviews in Aquaculture*. 2022; 1-27. [doi:10.1111/raq.12700](https://doi.org/10.1111/raq.12700), SCI收录(WOS:000800694900001),中科院一区, 2021IF=10.6.
- Samir. B. Grama, Zhiyuan Liu, and Jian Li*. Emerging trends in genetic engineering of microalgae for commercial applications. *Marine Drugs*. 2022; 20(5):285. SCI收录(WOS:000801713600001),中科院二区, 2021IF=6.1.
- Mahammed Ilyas Khazi, Chenshuo Li, Fakhra Liaqat, Jian Li, and Pengcheng Fu*. Acclimation and characterization of marine cyanobacterial strains *Euryhalinema* and *Desertifilum* for C-Phycocyanin production[J]. *Frontiers in Bioengineering and Biotechnology* (2021) 11:7752024. [doi:10.3389/fbioe.2021.752024](https://doi.org/10.3389/fbioe.2021.752024), SCI收录(WOS:000724882100001),中科院二区, 2021IF=6.1.
- Jixiang Yang, Jules van Lier*, Jian Li, Jinsong Guo, and Fang Fang. Integrated Anaerobic and Algal Bioreactors as an Alternative Approach for Conventional Sewage Treatment[J]. *Bioresource Technology* 343: 126115 (2022). SCI收录(WOS:000711791500012),中科院一区, 2021IF=11.9.
- Mahammed Ilyas Khazi, Liangtao Shi, Fakhra Liaqat, Yuxin Yang, Xin Li, Duanpeng Yang, and Jian Li*. Sequential Continuous Mixotrophic and Phototrophic Cultivation Might Be a Cost-Effective Strategy for Astaxanthin Production from Microalga *Haematococcus lacustris*[J]. *Frontiers in Bioengineering and Biotechnology* (2021) 9:740533. DOI: 10.3389/fbioe.2021.740533, SCI收录(WOS:000709786100001),中科院二区, 2021IF=6.1.
- 杨端鹏, 李仲先, 王胜男, 牛建峰, 王广策, 李健*. 基因诱变在微藻育种中的研究及应用[J]. *海洋科学* 2021 45 (11) : 1-14. 中文核心.
- Xin Li, Xiaoqian Wang, Chuanlan Duan, Shasha Yi, Zhengquan Gao, Chaowen Xiao, Spiros N. Agathos, Guangce Wang, Jian Li*. Biotechnological production of astaxanthin from the microalga *Haematococcus pluvialis*. *Biotechnology Advances*[J], 43(5): 1 November 2020, 107602. SCI收录(WOS:000572355300008),中科院一区, 2021IF=17.7
- Clayton Jeffryes, Jian Li, and Spiros N*. Agathos. Dimensionless Equations to Describe Microalgal Growth in a Planar Cultivation system[J]. *Biotechnology letters* 37 (11) 2167-2171 (2015) SCI收录(WOS:000361825200007),中科院三区, 2021IF=2.7.
- Jian Li, Marisa Stamato, Eirini Velliou, Clayton Jeffryes, and Spiros N. Agathos*. Design and Characterization of a Scalable Airlift Flat Panel Photobioreactor for Microalgae Cultivation[J]. *Journal of Applied Phycology* 27, 75–86(2015). SCI收录(WOS:000348137600006),中科院三区, 2021IF=3.4.
- Shan Gao, Wenhui Gu, Qian Xiong, Feng Ge, Xiujun Xie, Jian Li, Weizhou Chen, Guanghua Pan, Guangce Wang*. Desiccation Enhances Phosphorylation of PSII and Affects the Distribution of Protein Complexes in the Thylakoid

- Membrane[J]. *Physiologia Plantarum* 153(3):492-502 (2015). SCI 收录(WOS:000349969500013), 中科院二区, 2021IF=5.0.
- Xunjun Xie, Guangce Wang*, Guanghua Pan, Jianzhang Sun and Jian Li. Development of Oogonia of *Sargassum horneri* (Fucales, Heterokontophyta) and Concomitant Variations in PSII Photosynthetic Activities[J]. *Phycologia* 53 (1): 10–14(2014) SCI收录(WOS:000801713600001), 中科院三区, 2021IF=3.0.
 - Pei, Jicheng, Apeng Lin, Fangdong Zhang, Daling Zhu, Jian Li, and Guangce Wang*. Using Agar Extraction Waste of *Gracilaria Lemaneiformis* in the Papermaking Industry[J]. *Journal of Applied Phycology*, 25(4): 1135-41(2013). SCI收录(WOS:000348137600006), 中科院三区, 2021IF=3.4.
 - Xiujun Xie, Wenhui Gu, Shan Gao, Shan Lu, Jian Li, Guanghua Pan, Guangce Wang*, Songdong Shen. Alternative Electron Transports Participate in the Maintenance of Violaxanthin De-Epoxidase Activity of *Ulva* sp. under Low Irradiance[J]. *PLoS ONE*, 8(11): e78211 (2013).SCI收录(WOS:000327216200014), 中科院三区, 2021IF=3.8.
 - Kai Liu, Jian Li, Hongjin Qiao, Apeng Lin, Guangce Wang*. Immobilization of *Chlorella sorokiniana* GXNN 01 for Removal of N and P from Synthetic Wastewater[J]. *Bioresource Technology*, 114: 26–32 (2012).SCI 收录 (WOS:000305035900005), 中科院一区, 2021IF=11.9.
 - 韦韬, 顾文辉, 李健, 张波, 潘光华, 朱大玲, 王广策*. 不同碳氮浓度对雨生红球藻生长和虾青素累积的影响[J]. *海洋科学* 2012 ,36(11):57-61. 中文核心.
 - 李健, 张学成, 胡鸿钧, 王广策*. 微藻生物技术产业的前景和研发策略分析[J]. *科学通报* 2012 57: 23-31. 中文核心.
 - Jian Li, Daling Zhu, Jianfeng Niu, Songdong Shen, and Guangce Wang. An Economic Assessment of Astaxanthin Production by Large Scale Cultivation of *Haematococcus pluvialis*[J]. *Biotechnology Advances*, 29(6): 568-574 (2011). SCI收录(WOS:000296821900002), 中科院一区, 2021IF=17.7.
 - 李健, 王广策*. 微藻生物技术在二氧化碳减排和生物柴油生产中的应用研究进展[J]. *海洋科学* 2011 35(7): 124-131. 中文核心.
 - Wenwei Su*, Jian Li, and Ningshou Xu. State and parameter estimation of microalgal photobioreactor cultures based on local irradiance measurement[J]. *Journal of Biotechnology*, 105(1-2): 165-178 (2003). SCI 收录 (WOS:000185819900013), 中科院三区, 2021IF=3.6.
 - Jian Li, Ningshou Xu, and Wenwei Su*. Online Estimation of Stirred-Tank Microalgal Photobioreactor Cultures based on Dissolved Oxygen Measurement[J]. *Biochemical Engineering Journal*, 14(1): 51-65 (2003). SCI 收录 (WOS:000181496700007), 中科院三区, 2021IF=4.4.
 - 李健. 人绒毛膜促性腺素放射免疫试剂盒研发[J]. *同位素杂志* 1999 12(3): 188-189. 中文核心.

■发明专利及软件著作权

- 默罕默德·伊利亚斯·芭沙, 李健. 培养雨生红球藻生产虾青素的方法, 中国发明专利申请号: CN202111051171.3, 2021-09-09。
- 李健, 梅艳. 一种清除自由基提高免疫力健身软化血管的红金酒及其制作方法, 中国发明专利申请号: CN2020082400304350, 2020-04-21。
- 李健, 王帝威, 熊亚. 虾青素抗疲劳运动饮料及其制备方法, 中国发明专利申请号: CN202010289261.5, 2020-05-13。
- 郑毅, 伍斌, 李健, 尚远宏. 一种具有抗氧化功能的蛋粉片及其制备方法, 中国发明专利申请号: CN202010147438.8, 2020-06-17。
- 梅艳, 李健. 瓶贴 (虾青素饮料设计), 中国外观设计专利申请号: CN201930545174.X 2019-08-05。
- 梅艳, 李健. 瓶贴 (藻类设计), 中国外观设计专利申请号: CN201930476429.1, 2019-10-19。
- 熊亚, 李敏杰, 李健. 红茶菌余甘子果冻及其制备方法, 中国发明专利申请号: CN201910222367.0, 2019-09-08。
- 李健, 朱学军, 梅艳, 王利祥, 李勇, 刁毅. 瓶贴, 中国外观设计专利申请号: CN201930092291.5, 2019-07-06。
- 梅艳, 李健. 公仔 (微藻), 中国外观设计专利申请号: CN201830716468.X, 2018-08-08。

-
- 李健, 彭滢茹, 李勇. 微藻纯化培养基及分离纯化微藻的方法, 中国发明专利申请号: CN201811250193.0, 2018-09-18。

■ 获奖及荣誉

- 李健, 孟春晓, 高政权, 朱学军, 张昌华, 于福河. 雨生红球藻生产虾青素关键技术集成及产业化应用, 中国轻工业联合会科学技术进步三等奖, 中国轻工业联合会, 2020.