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教育经历:

2012.09-2016.06 齐鲁工业大学 高分子材料与工程 工学学士

2017.09-2020.06 鲁东大学 物理学 理学硕士

2020.09-2020.06 山东大学 凝聚态物理 理学博士

研究领域: 粒子与物质相互作用 核能材料计算机模拟

承担项目:

主持在研山东省自然科学基金项目 (青年) 1 项

代表性成果:

[1] **J.-C. Liang**, X.-W. Li, J.-C. Wu, Z.-X. Wei, X.-L. Wang, First-principles study of hydrogen capture, solution and mechanical effects in transition metal tungsten alloy W-TM (V, Nb, Ta), *J. Mater. Res. Technol.* (2023). (DOI: <https://doi.org/10.1016/j.jmrt.2023.10.077>) (IF: 6.4)

[2] **J.-C. Liang**, C.-L. Yang, X.-L. Wang, Exploring the impacts of Li and He impurities in a tungsten matrix: A First-Principles study, *Nucl. Mater. Energy* (2024) 101632. (DOI: <https://doi.org/10.1016/j.nme.2024.101632>) (IF: 2.6)

[3] **J.-C. Liang**, C.-L. Yang, X.-L. Wang, LiXO<sub>2</sub> (X= Co, Rh, Ir) and solar light photocatalytic water splitting for hydrogen generation, *Spectrochim. Acta, Part A* 279 (2022) 121410. (DOI: <https://doi.org/10.1016/j.saa.2022.121410>) (IF: 3.3)

[4] **J.-C. Liang**, C.-L. Yang, M.-S. Wang, X.-G. Ma, Photocatalytic water splitting for hydrogen generation driven by tetragonal, trigonal, hexagonal and cubic LiCoO<sub>2</sub> and visible light, *Spectrochim. Acta, Part A* 239 (2020) 118459. (DOI: <https://doi.org/10.1016/j.saa.2020.118459>) (IF: 3.3)

[5] **J.-C. Liang**, X.-W. Li, J.-C. Wu, Z.-X. Wei, X.-L. Wang, First-principles study on structural stability, electronic structure and mechanical properties of VB group transition metal tungsten alloys W-TM (TM= V, Nb, Ta), *Mater. Today Commun.* 38 (2024) 107920. (DOI: <https://doi.org/10.1016/j.mtcomm.2023.107920>) (IF: 3.8)

[6] **J.-C. Liang**, C.-L. Yang, M.-S. Wang, X.-G. Ma, Y.-G. Yi, High mobility and photocatalytic properties of NaXO<sub>2</sub> (X= Co, Rh, Ir), *Vacuum* 168 (2019) 108824. (DOI: <https://doi.org/10.1016/j.vacuum.2019.108824>) (IF: 4)