**姓名 刘彦辰**



**性别：**男 **导师类型：**

**职称：**助理研究员 **学科方向：**力学

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**个人简介：（必填）**

男，1986年11月出生于中国台湾省。博士，助理研究员职称。现任南昌大学工程建设学院 航空航天研究院(文丕华团队)全职研究员。2018中国台湾成功大学土木工程博士学位， 2019至2022南昌大学力学流动站 博士后。主要科研为数值分析，数值计算方法，无网格数值法创新及改良，非线性方程求解法，具体方向主要包括局部型基本解法，局部型Trefftz方法，微分重构核配点法，局部型边界节点无网格法。重点用于计算流体力学，功能性梯度材料的力学行为，电磁波导管的频率问题，柯西反问题，非线性热传导问题的研究。迄今已在CMA、Composite Structures、Steel and Composite Structures、IPSE、CMES及Mathematics 等国际期刊发表高水平SCI论文十余篇。

**讲授课程：（必填）**

工程力学

**科研项目/课题（非必填内容;如填写，限5项）**：

**论文专著（非必填内容;如填写，限10项）：**

1. Xiran Lin a, Liangbin Xu\*, **Yan-Cheng Liu**, C.M. Fan, “An efficient localized Trefftz method for the simulation of two-dimensional sloshing behaviors” *Ocean Engineering,* Vol. 299, 117414, 2024. (SCI)
2. Yang, Junli Zhang, Shuang Ding, and **Yan-Cheng Liu\*** (2022), “Localized Boundary Knot Method for Solving Two-Dimensional Inverse Cauchy Problems” *Mathematics* 10, no. 8: 1324. (SCI)
3. Sun Ke, Shuang Ding, Junli Zhang, and **Yan-Cheng Liu\*** (2022), “Solving the Eigenfrequencies Problem of Waveguides by Localized Method of Fundamental Solutions with External Source” *Mathematics* 10, no. 7: 1128. (SCI)
4. Wang Feng, **Yan-Cheng Liu** and Hui Zheng (2022), “A Localized Method of Fundamental Solution for Numerical Simulation of Nonlinear Heat Conduction” *Mathematics* 10, no. 5: 773. (SCI)
5. Zhuowan Fan, **Yan-Cheng Liu**, Anyu Hong, Fugang Xu, and Fuzhang Wang (2022), “The Localized Method of Fundamental Solution for Two Dimensional Signorini Problems”. *Computer Modeling in Engineering & Sciences*, vol.132, no.1 (SCI)
6. **Y.C. Liu**, C.M. Fan, W. Yeih, C.Y. Ku and C.L. Chu (2021), “Numerical solutions of two-dimensional Laplace and biharmonic equations by the localized Trefftz method”. *Computers & Mathematics with Applications*, 88, pp. 120–134. (SCI)
7. Jingang Xiong, Jiancong Wen, and **Y.C. Liu\*** (2020), “Localized Boundary Knot Method for Solving Two-Dimensional Laplace and Bi-Harmonic Equations” *Mathematics* , 8(8): 1218. (SCI)
8. C.P. Wu and **Y.C.** **Liu** (2016), “A state space meshless method for the 3D analysis of FGM axisymmetric circular plates”, *Steel and Composite Structures*, 22, 161-182. (SCI)
9. C.P. Wu and **Y.C. Liu** (2016), “A review of semi-analytical numerical methods for laminated composite and multilayered functionally graded elastic/piezoelectric plates and shells”, *Composite Structures*, 147, 1-15. (SCI)
10. C.M. Fan, **Y.C. Liu**, H.F. Chan and S.S. Hsiao (2014), Solutions of boundary detection problem for modified Helmholtz equation by Trefftz method, *Inverse Problems in Science & Engineering*, 22(2), 267-281. (SCI)