

LIST OF REFEREED PUBLICATIONS:

2024

- Dai, L. and Foroutan, K., “Sub-harmonic and super-harmonic resonances of spiral stiffened FG cylindrical panels of variable thickness embedded within a nonlinear elastic foundation,” accepted in press at *Journal of Vibration and Control*, <https://doi.org/10.1177/10775463231226344> , 2024.
- Dai, L. and Sheth, H.B. “Quantitative Safety Evaluation of the Valve Guard Used for Tank Vehicles,” *International Journal of Mechanical and Production Engineering*, Vol. 11, No. 12, 2024.
- Foroutan, K. and Dai, L., “Nonlinear free and forced vibrations of oblique stiffened porous FG shallow shells embedded in nonlinear elastic foundation,” *Structural Engineering and Mechanics, An International Journal*, Vol. 89, No. 1, pp. 33-46, <https://doi.org/10.12989/sem.2024.89.1.0332023>, 2024.
- Shah, V. and Dai, L., “Material Combination Ratio Optimization for Paver Block Composed of Waste Plastic and Waste Foundry Sand,” accepted in press at *International Journal of Applied Engineering & Technology*, 2024.
- Zhang, Z., Lu, S., Dai, L. and Jia, J., “Introducing permeability variation to ANSYS Fluent simulation on water flooding EOR process,” 1st Global Conference on Oil, Gas, and Petroleum Engineering (GCOGPE), Vancouver, 2024.
- Lu, S., Zhang, Z., Dai, L. and Jia, J., “A comparative study of optimizing heavy oil recovery through frequency-modulated vibration stimulated gas pressure cycling,” 1st Global Conference on Oil, Gas, and Petroleum Engineering (GCOGPE), Vancouver, 2024.
- Dai, L. and Shah, V., “Optimal Material Combination Ratio Determination for Paver Blocks Composed with Waste Materials,” International Conference on Mechanical Engineering and Manufacturing (ICMEAM - 2024), Boston, 2024.

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- Dai, L. and Foroutan, K., “A Semi-Analytical and Numerical Approach for Solving 3D Nonlinear Cylindrical Shell Systems,” accepted in press at *Structural Engineering and Mechanics, An International Journal*, 2023.
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- Foroutan, K. and Dai, L., “Nonlinear torsional vibration and dynamic post-buckling responses of spiral stiffened FG porous cylindrical shells,” accepted in press at *Journal of Reinforced Plastics and Composites*, <https://doi.org/10.1177/07316844231225079>, 2023.
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- Fu, F., Deng, B., and Dai, L., “The Chromatic Entropy of Linear Supertrees and Its Application,” *Symmetry*, <https://doi.org/10.3390/sym15112061>, Vol. 15, No. 11, 2023.
- Zhang, Z. and Dai, L., “The application of the cell mapping method in the characteristic diagnosis of nonlinear dynamical systems”, *Nonlinear Dynamics*, <https://doi.org/10.1007/s11071-023-08777-0>, Vol. 111, pp. 8095–18112, 2023.
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- Foroutan, K. and Dai, L., “Free vibration of Porous FG Shallow Shells Reinforced with Oblique Stiffeners,” The 2023 World Congress on Advances in Structural Engineering and Mechanics (ASEM23), Soule, 2023.
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