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Fields of Research

- Mechanics of Macro, Micro and Nano Composite Structures
- Vibration & Buckling
- Nonlocal Continuum Mechanics
- Theory of Elasticity
- Microelectromechanical Systems (MEMS) and Magneto-Electro-Elastic Coupling
- Smart Materials and Structures
- Functionally Graded Materials & Porous Materials
- Nanomaterials
- Variational Principles and Methods
- Mathematical Modelling of Discrete-Continuous Dynamical Systems
- Boundary Value Problems
- Green's Functions and Applications
- Analytical & Numerical Methods
- Finite Element Method
- Partial and Ordinary Differential Equations
- Integral Equations
- Theoretical and Applied Mathematics

Collaboration

- Jinseok Kim – Department of Mechanical and Aerospace Engineering, Western Michigan University, USA
- Mohammad Arefi – Department of Solid Mechanics, Faculty of Mechanical Engineering, University of Kashan, Iran
- J.N. Reddy – Department of Mechanical Engineering, Texas A&M University, USA
- Giang Lam Thi Kieu – Institute of Materials Science, Vietnam Academy of Science and Technology, Vietnam

Selected Papers

- K.K. Żur, P. Jankowski: Multiparametric analytical solution for the eigenvalue problem of FGM porous circular plates, *Symmetry*, 2019, 11(3).
- T.K.G. Lam, T. Marciniak, K.K. Żur, M.T. Dinh, V. Nguyen, T.B. Nguyen, K.A. Tran, Q.M. Le. Zirconium metal organic framework for design of tetragonal rare earth-doped zirconia nanoparticles, *Journal of Rare Earths*, 2019 (in press)
- K.K. Żur. Free vibration analysis of discrete-continuous functionally graded circular plates via Neumann series method, *Applied Mathematical Modelling*, 2019, 73, 166-189
- J. Kim, K.K. Żur, J.N. Reddy. Bending, free vibration, and buckling of modified couples stress-based functionally graded porous micro-plates, *Composite Structures*, 2019, 209, 879-888
- K.K. Żur. Free vibration analysis of elastically supported functionally graded annular plates via quasi-Green's function method, *Composites Part B*, 2018, 144, 37-55

- K.K. Żur. Quasi-Green's function approach to free vibration analysis of elastically supported functionally graded circular plates, *Composite Structures*, 2018, 183, 600-610
- K.K. Żur. Green's function for frequency analysis of thin annular plates with nonlinear variable thickness, *Applied Mathematical Modelling*, 2016, 5-6, 3601-3619
- K.K. Żur. Green's function approach to frequency analysis of thin circular plates, *Bulletin of the Polish Academy of Sciences – Technical Sciences*, 2016, 64, 1, 181-188

Associate Editor

- Mechanics Based Design of Structures and Machines (Taylor & Francis) (ISSN 1539-7734)
- Symmetry (MDPI) (ISSN 2073-8994)

Editorial Board

- Archive of Applied Mechanics (Springer) (ISSN 0939-1533)
- Composite Materials and Engineering (Techno Press) (ISSN 2671-4940)

Membership

- European Mechanics Society
- The International Society for the Interaction of Mechanics and Mathematics (ISIMM)
- The International Research Center for Mathematics & Mechanics of Complex Systems (M&MoCS)
- International Association of Advanced Materials (IAAM)
- Polish Mathematical Society
- Polish Physical Society

Expert

- European Cooperation in Science & Technology
- The National Centre for Research and Development
- Polish National Agency for Academic Exchange

Reviewer for International Journals

1. Acta Mechanica (ISSN 0001-5970)
2. Acta Mechanica Sinica (ISSN 0567-7718)
3. Advances in Mechanical Engineering (ISSN 1687-8132)
4. Aerospace (ISSN 2226-4310)
5. Aerospace Science and Technology (ISSN 1270-9638)
6. Annals of Solid and Structural Mechanics (ISSN 1867-6944)
7. Applied Mathematical Modelling (ISSN 0307-904X)
8. Applied Mathematics and Computation (ISSN 0096-3003)
9. Applied Mathematics and Mechanics (ISSN 0253-4827)
10. Applied Sciences (ISSN 2076-3417)
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19. Computational Materials Science (ISSN 0927-0256)

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23. Continuum Mechanics and Thermodynamics (ISSN 0935-1175)
24. European Journal of Mechanics – A/Solids (ISSN 0997-7538)
25. Energies (ISSN 1996-1073)
26. Engineering Analysis with Boundary Elements (ISSN 0955-7997)
27. Engineering Fracture Mechanics (ISSN 0013-7944)
28. Engineering Structures (ISSN 0141-0296)
29. Entropy (ISSN 1099-4300)
30. Heat and Mass Transfer (ISSN 0947-7411)
31. Indian Journal of Engineering & Material Science (ISSN 0971-4588)
32. International Journal of Applied Mathematics and Computer Science (ISSN 1641-876X)
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36. International Journal of Mechanics and Materials in Design (ISSN 1569-1713)
37. International Journal of Non-linear Mechanics (ISSN 0020-7462)
38. International Journal of Structural Stability and Dynamics (ISSN 0219-4554)
39. Inverse Problems in Science and Engineering (ISSN 1741-5977)
40. Iranian Journal of Science and Technology, Transactions of Mechanical Engineering (ISSN 2228-6187)
41. Journal of Aerospace Engineering (ISSN 0893-1321)
42. Journal of Bridge Engineering (ISSN 1084-0702)
43. Journal of Composite Materials (ISSN 0021-9983)
44. Journal of Composites for Construction (ISSN 1090-0268)
45. Journal of Computational and Applied Mathematics (ISSN 0377-0427)
46. Journal of Computational and Nonlinear Dynamics (ISSN 1555-1423)
47. Journal of Elasticity (ISSN 0374-3535)
48. Journal of Engineering Mechanics (ISSN 0733-9399)
49. Journal of Intelligent Material Systems and Structures (ISSN 1045-389X)
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54. Journal of Sound and Vibration (ISSN 0022-460X)
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56. Journal of Vibration and Control (ISSN 1077-5463)
57. Journal of the Brazilian Society of Mechanical Science and Engineering (ISSN 1678-5878)
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