



Dr. Krzysztof Kamil Żur

Faculty of Mechanical Engineering

Białystok University of Technology

Wiejska 45C, 15-351 Białystok, Poland

Phone: +48 503 539 352

Skype: zur.chris85

Email: k.zur@pb.edu.pl , zur.chris85@gmail.com

ORCID: 0000-0003-1367-9609

Fields of Research

- Linear and non-linear mechanics of composite structures in macro, micro, and nano scales
- Vibration, stability, stress, wave propagation analyses
- Nonlocal continuum mechanics
- Theory of elasticity
- Microelectromechanical systems (MEMS) and nanoelectromechanical systems (NEMS)
- Smart materials and structures
- Composite materials
- Nanomaterials
- Variational principles and methods
- Mathematical modelling of discrete-continuous systems
- Green's functions and applications
- Analytical and numerical methods
- Partial and ordinary differential equations
- Integral equations
- Theoretical and applied mathematics

International Collaboration

- Jinseok Kim – Department of Mechanical and Aerospace Engineering, Western Michigan University, USA
- J.N. Reddy – Department of Mechanical Engineering, Texas A&M University, USA
- Xin-Lin Gao – Department of Mechanical Engineering, Southern Methodist University, USA
- Victor Eremeyev – Faculty of Civil and Environmental Engineering, Gdansk University of Technology, Poland
- Peter Schiavone – Department of Mechanical Engineering, University of Alberta, Canada
- Yaghoub Tadi Beni – Faculty of Technology and Engineering, Shahrekord University, Iran
- Ali Farajpour – School of Mechanical Engineering, University of Adelaide, Australia
- Hamid Mohammad-Sedighi – Faculty of Engineering, Shahid Chamran University of Ahvaz, Ahvaz, Iran
- Hassen Ouakad – Department of Mechanical & Industrial Engineering, Sultan Qaboos University, Oman

Selected Papers

- K.K. Żur, M. Arefi, J. Kim, J.N. Reddy. Free vibration and buckling analyses of magneto-electro-elastic FGM nanoplates based on nonlocal modified higher-order sinusoidal shear deformation theory, *Composites Part B*, 2020, 182, 107601
- 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

Associate Editor

- Mechanics Based Design of Structures and Machines (Taylor & Francis) (ISSN 1539-7734)
- Microsystem Technologies (Springer) (ISSN 0946-7076)
- Micro & Nano Letters (IET) (ISSN 1750-0443)
- Symmetry (MDPI) (ISSN 2073-8994)
- Mathematics (MDPI) (ISSN 2227-7390)

Editorial Board

- Archive of Applied Mechanics (Springer) (ISSN 0939-1533)
- Engineering Research Express (IOP Publishing) (ISSN 2631-8695)
- Composite Materials and Engineering (Techno-Press) (ISSN 2671-4940)
- Journal of Vibroengineering (ISSN 1392-8716)

Guest Editor / Special Issues

- K.K. Żur, A. Amirkhizi, 2020. "Electro-magneto-elastic couplings in micro/nano-structured materials and structures", *Mechanics of Materials (ELSEVIER)*.
- A. Farajpour, K.K. Żur, 2020. "Mechanics of nanostructures and nanomaterials", *Nanomaterials (MDPI)*.

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. Acta Polytechnica (ISSN 1210-2709)
4. Advances in Applied Mathematics and Mechanics (ISSN 2070-0733)
5. Advances in Civil Engineering (ISSN 1687-8086)
6. Advances in Mechanical Engineering (ISSN 1687-8132)
7. Aerospace (ISSN 2226-4310)
8. Aerospace Science and Technology (ISSN 1270-9638)
9. Annals of Solid and Structural Mechanics (ISSN 1867-6944)
10. Applied Mathematical Modelling (ISSN 0307-904X)
11. Applied Mathematics and Computation (ISSN 0096-3003)
12. Applied Mathematics and Mechanics (ISSN 0253-4827)
13. Applied Sciences (ISSN 2076-3417)
14. Archive of Applied Mechanics (ISSN 0939-1533)
15. Archives of Control Science (ISSN 2300-2611)
16. Axioms (ISSN 2075-1680)
17. Biomolecules (ISSN 2218-273X)
18. Bulletin of the Polish Academy of Sciences – Technical Sciences (ISSN 0239-7528)
19. Communications on Pure and Applied Analysis (ISSN 1534-0392)
20. Composites Part B: Engineering (ISSN 1359-8368)
21. Composites Science and Technology (ISSN 0266-3538)
22. Computational Materials Science (ISSN 0927-0256)
23. Computer-Aided Civil and Infrastructure Engineering (ISSN 1093-9687)
24. Computer & Mathematics with Applications (ISSN 0898-1221)
25. Computers and Concrete (ISSN 1598-8198)
26. Continuum Mechanics and Thermodynamics (ISSN 0935-1175)
27. Electronics (ISSN 2079-9292)
28. Engineering Analysis with Boundary Elements (ISSN 0955-7997)
29. Engineering Fracture Mechanics (ISSN 0013-7944)
30. Engineering Structures (ISSN 0141-0296)
31. Entropy (ISSN 1099-4300)
32. European Journal of Mechanics – A/Solids (ISSN 0997-7538)
33. Heat and Mass Transfer (ISSN 0947-7411)
34. Indian Journal of Engineering & Material Science (ISSN 0971-4588)
35. International Journal of Applied Mathematics and Computer Science (ISSN 1641-876X)
36. International Journal of Applied Mechanics (ISSN 1758-8251)
37. International Journal of Heat and Mass Transfer (ISSN 0017-9310)
38. International Journal of Impact Engineering (ISSN 0734-743X)
39. International Journal of Mechanics and Materials in Design (ISSN 1569-1713)
40. International Journal of Non-linear Mechanics (ISSN 0020-7462)
41. International Journal of Smart and Nano Materials (ISSN 1947-5411)
42. International Journal of Structural Stability and Dynamics (ISSN 0219-4554)
43. Inverse Problems in Science and Engineering (ISSN 1741-5977)

44. Iranian Journal of Science and Technology, Transactions of Mechanical Engineering (ISSN 2228-6187)
45. Journal of Aerospace Engineering (ISSN 0893-1321)
46. Journal of Bridge Engineering (ISSN 1084-0702)
47. Journal of Composite Materials (ISSN 0021-9983)
48. Journal of Composites for Construction (ISSN 1090-0268)
49. Journal of Computational and Applied Mathematics (ISSN 0377-0427)
50. Journal of Computational and Nonlinear Dynamics (ISSN 1555-1423)
51. Journal of Elasticity (ISSN 0374-3535)
52. Journal of Engineering Mechanics (ISSN 0733-9399)
53. Journal of Intelligent Material Systems and Structures (ISSN 1045-389X)
54. Journal of Materials in Civil Engineering (ISSN 0899-1561)
55. Journal of Mechanical Engineering (ISSN 0039-2480)
56. Journal of Mechanical Science and Technology (ISSN 1738-494X)
57. Journal of Micromechanics and Microengineering (ISSN 0960-1317)
58. Journal of Physics A: Mathematical and Theoretical (ISSN 1751-8113)
59. Journal of Sandwich Structures and Materials (ISSN 1099-6362)
60. Journal of Sound and Vibration (ISSN 0022-460X)
61. Journal of Vibration and Acoustic (ISSN 1048-9002)
62. Journal of Vibration and Control (ISSN 1077-5463)
63. Journal of the Brazilian Society of Mechanical Science and Engineering (ISSN 1678-5878)
64. Journal of Vibroengineering (ISSN 1392-8716)
65. Latin American Journal of Solids and Structures (ISSN 1679-7825)
66. Mathematical and Computational Applications (ISSN 2297-8747)
67. Mathematical Methods in the Applied Sciences (ISSN 1099-1476)
68. Mathematical Problems in Engineering (ISSN 1024-123X)
69. Mathematics (ISSN 2227-7390)
70. Mathematics and Mechanics of Solids (ISSN 1081-2865)
71. Materials (ISSN 1996-1944)
72. Materials & Design (ISSN 0261-3069)
73. Materials Research Express (ISSN 2053-1591)
74. Materials Today (ISSN 1369-7021)
75. Meccanica (ISSN 0025-6455)
76. Mechanical Systems and Signal Processing (ISSN 0888-3270)
77. Mechanics Based Design of Structures and Machines, An International Journal (ISSN 1539-7734)
78. Mechanics of Materials (ISSN 0167-6636)
79. Mechanics Research Communications (ISSN 0093-6413)
80. Micro & Nano Letters (ISSN 1750-0443)
81. Nanotechnology (ISSN 0957-4484)
82. Nonlinear Dynamics (ISSN 0924-090X)
83. Physica Scripta (ISSN 0031-8949)
84. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science (ISSN 0954-4062)
85. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit (ISSN 0954-4097)
86. Results in Applied Mathematics (ISSN 2590-0374)
87. Processes (ISSN 2227-9717)
88. Reviews on Advanced Materials Science (ISSN 1606-5131)
89. Shock and Vibration (ISSN 1070-9622)
90. Scientia Iranica (ISSN 1026-3098)
91. Sensors (ISSN 1424-8220)
92. Smart Materials and Structures (ISSN 0964-1726)

93. Structural Engineering and Mechanics, An International Journal (ISSN 1225-4568)
94. Symmetry (ISSN 2073-8994)
95. Theoretical and Applied Fracture Mechanics (ISSN 0167-8442)
96. Thin-Walled Structures (ISSN 0263-8231)