CURRICULUM VITAE

DR. SEYED SAEID RAHIMIAN KOLOOR

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EDUCATION AND ACADEMIC DEGREES

Ph.D., Mechanical Engineering (Applied Mechanics and Design), 2015

Faculty of Mechanical Engineering, Universiti Teknologi Malaysia (UTM), Malaysia

M.Sc., Mechanical Engineering, Applied Mechanics and Design, 2009

Faculty of Mechanical Engineering, Universiti Teknologi Malaysia (UTM), Malaysia

B.Sc., Mechanical Engineering, 2003

Faculty of Mechanical Engineering, Azad University, Iran

PROFESSIONAL PROFILE

Scientific Employee, 2019-Present
Institute for Nanomaterials, Advanced Technologies and Innovation, Technical University of Liberec, Liberec, Czech Republic.

Postdoctoral Fellow, 2017-2019
Faculty of Mechanical Engineering, Universiti Teknologi Malaysia (UTM), Malaysia

Project Manager, 2015-2016
Faculty of Mechanical Engineering, Universiti Teknologi Malaysia (UTM), Malaysia

Research Assistant, 2010 –2015
Computational Solid Mechanics Lab, Faculty of Mechanical Engineering, Universiti Teknologi Malaysia (UTM), Malaysia

PROFESSIONAL AND SCIENTIFIC ORIENTATION

Seyed Koloor has academic and scientific research focus on Solid Mechanics, Fatigue and Fracture Mechanics of Advanced Materials and Design of Structures for automotive, aerospace, etc., industrial applications. He received the M.Sc. and Ph.D. degrees (Hons.) in applied mechanics and design from Universiti Teknologi Malaysia (UTM), in 2008 and 2015, respectively. He has been invited as the Project Manager and three times as a Postdoctoral Researcher with UTM, Iran University of Science and Technology (IUST), and also Iran's National Elites Foundation (BMN). He is currently a Senior Scientist with the Institute for Nanomaterials, Advanced Technologies and Innovation, Technical University of Liberec, Liberec, Czech Republic. He is the author of many articles published and presented in international journals and conferences. He is serving as one of the Elsevier Advisory Panel, the Editorial Board and a Guest Editor of many international journals, and served as the Committee Member in many international conferences.

I am the author or co-author of more than 50 papers that are published in Web of Science, Scopus and ISI indexed journals with 171 citations, and serving as an editor in several international journals .

WORKING EXPERINCE IN INTERNATIONAL PROJECTS:

- **Postdoc Reseacher** in a project supported by AIRBUS, France in collaboration with the Aerospace Malaysia Innovation Centre (AMIC), Composites Technology Research Malaysia (CTRM), and the Universiti Teknologi Malaysia (UTM) under Project No. AMIC/AM/P02-01 (UTM Grant No. 4C089 and 01M01, respectively).
- **Scientific Employee** in a project supported by the Ministry of Education, Youth, and Sports of the Czech Republic and the European Union (European Structural and Investment Funds Operational Program Research, Development, and Education) in the framework of the project "Modular platform for autonomous chassis of specialized electric vehicles for freight and equipment transportation", Reg. No. CZ.02.1.01/0.0/0.0/16_025/0007293.

EDITOR OF SPECIAL ISSUES:

Special Issue on Damage Mechanics of Polymer Composites, **Journal of Polymers**, MDPI Publisher, ISSN: 2073-4360, Web of Science, Q1 (IF=3.426), Switzerland, (Dec 2019 – Dec 2020).

Special Issue on Mechanical Behavior of Composite Materials and Structures (I), Revue des Composites et des Matériaux Avancés (**Journal of Composite and Advanced Materials**), Web of Science Q4 & Scopus, IF=0.13, IIETA, Edmonton, Canada, (Dec 2019 – Dec 2020).

SELECTED PUBLICATIONS (2020, 2019, 2018, 2017)

Farokhi Nejad, A., et al., Using Finite Element Approach for Crashworthiness Assessment of a Polymeric Auxetic Structure Subjected to the Axial Loading. Polymers, 2020. 12(6): p. 1312. [IF: 3,426, Q1]

Koloor, S., et al., Fatigue damage of cohesive interfaces in fiber-reinforced polymer composite laminates. Composites Science and Technology, 2019. 183: p. 107779. [IF: 7,094. Q1].

Karimzadeh, A., et al., Assessment of compressive mechanical behavior of Bis-GMA polymer using hyperelastic models. Polymers, 2019. 11(10): p. 1571. [IF: 3,426, Q1]

Koloor, S. and M. Tamin, Mode-II interlaminar fracture and crack-jump phenomenon in CFRP composite laminate materials. Composite Structures, 2018. 204: p. 594-606. [IF: 5,138, Q1]

Koloor, S., M. Ayatollahi, and M. Tamin, Elastic-damage deformation response of fiber-reinforced polymer composite laminates with lamina interfaces. Journal of Reinforced Plastics and Composites, 2017. 36(11): p. 832-849. [IF: 1.797. Q4].

Koloor, S.S.R., et al., Nano-level damage characterization of graphene/polymer cohesive interface under tensile separation. Polymers, 2019. 11(9): p. 1435. [IF: 3,426, Q1]

Mlýnek, J., et al., Fabrication of High-Quality Polymer Composite Frame by a New Method of Fiber Winding Process. Polymers, 2020. 12(5): p. 1037. [IF: 3,426, Q1]

Bassiri Nia, A., et al., Failure of Glass Fibre-Reinforced Polypropylene Metal Laminate Subjected to Close-Range Explosion. Polymers, 2020. 12(9): p. 2139. [IF: 3,426, Q1]

Mohammadyan-Yasouj, S.E., et al., Thermal Performance of Alginate Concrete Reinforced with Basalt Fiber. Crystals, 2020. 10(9): p. 779. [IF: 2,404, Q2]

Tan, P., et al., Investigation on the Curvature Correction Factor of Extension Spring. Materials, 2020. 13(18): p. 4199. [IF: 3.057. Q2].

Koloor, S., et al., FE model-based construction and progressive damage processes of FRP composite laminates with different manufacturing processes. International Journal of Mechanical Sciences, 2018. 141: p. 223-235. [IF: 4,631. Q1].

Karimzadeh, A., et al., Assessment of nano-indentation method in mechanical characterization of heterogeneous nanocomposite materials using experimental and computational approaches. NATURE - Scientific reports, 2019. 9(1): p. 1-14. [IF: 3,998, Q1]

Ng, T.P., et al., Assessment of compressive failure process of cortical bone materials using damage-based model. Journal of the Mechanical Behavior of Biomedical Materials, 2017. 66: p. 1-11. [IF: 3,372. Q2].

Wong, K.J., et al., Moisture Absorption Effects on Mode II Delamination of Carbon/Epoxy Composites. Polymers, 2020. 12(9): p. 2162. [IF: 3,426, Q1]

Khan, M.S., S.S.R. Koloor, and M.N. Tamin, Effects of cell aspect ratio and relative density on deformation response and failure of honeycomb core structure. Materials Research Express, 2020. 7(1): p. 015332. [IF: 1,929, Q3]

Koloor, S., Simulation methodology for fracture processes of composite laminates using damage-based methods. 2016, Malaysia: Faculty of Mechanical Engineering. Universiti Teknologi Malaysia.

GRANTS AND PROJECTS

Project European Structural and Investment Funds - Operational Programme R&D and Education Electromobility (2018 – 2022): Ministry of Education, Youth and Sports of the Czech Republic and the European Union (European Structural and Investment Funds - Operational Programme Research, Development and Education) in the frames of the project “Modular platform for autonomous chassis of specialized electric vehicles for freight and equipment transportation”, Reg. No. CZ.02.1.01/0.0/0.0/16_025/0007293. Principal investigator TUL: Assoc. prof. Dr. Ing. Michal Petru.

MPO TRIO FV40207: Modularity of agricultural machinery with the support of advanced production technologies, 2019-2022, Reg. No. FV40207. Principal investigator TUL: Assoc. prof. Dr. Ing. Michal Petru.

TACR Norwey Grants TO01000311: Inherently Flexible Aerogels for energy effiCient structurES (i-FACES), 2021-2024, Reg. No. FV40207. Principal investigator TUL: Assoc. prof. Dr. Ing. Stanislav Petrik.