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### **2022**

#### **Development of detailed finite element models for in silico analyses of brain impact dynamics.**

Pavan PG, Nasim M, Brasco V, Spadoni S, Paoloni F, d'Avella D, Khosroshahi SF, de Cesare N, Gupta K and Galvanetto U. *Computer Methods and Programs in Biomedicine* vol. 227.,

#### **A Surrogate Model Based on a Finite Element Model of Abdomen for Real-Time Visualisation of Tissue Stress during Physical Examination Training.**

Leong F, Lai CY, Khosroshahi SF, He L, de Lusignan S, Nanayakkara T and Ghajari M. *Bioengineering* vol. 9, (11).

#### **A Multidisciplinary Computational Framework for Topology Optimisation of Offshore Helidecks.**

Khosroshahi SF, Masina M, Antonini A, Ransley E, Brownjohn JMW, Dobson P and D Ayala D. *Journal of Marine Science and Engineering* vol. 10, (9) 1180-1180.Mdpi.

### **2021**

#### **Multiscale modelling of cerebrovascular injury reveals the role of vascular anatomy and parenchymal shear stresses.**

Farajzadeh Khosroshahi S, Yin X, K. Donat C, McGarry A, Yanez Lopez M, Baxan N, J. Sharp D, Sastre M and Ghajari M. *Scientific Reports* vol. 11, (1).

### **2019**

#### **The effects of topology and relative density of lattice liners on traumatic brain injury mitigation.**

Khosroshahi SF, Duckworth H, Galvanetto U and Ghajari M. *J Biomech* vol. 97.,

#### **Assessment of the protective performance of neck braces for motorcycle riders: a finite-element study.**

Farajzadeh Khosroshahi S, Ghajari M and Galvanetto U. *International Journal of Crashworthiness* vol. 24, (5) 487-498.

### **2018**

#### **Response of a helmet liner under biaxial loading.**

Khosroshahi SF, Olsson R, Wysocki M, Zaccariotto M and Galvanetto U. *Polymer Testing* vol. 72, 110-114.Elsevier.

#### **Feasibility study on the use of a hierarchical lattice architecture for helmet liners.**

Khosroshahi SF, Tsampas SA and Galvanetto U. *Materials Today Communications* vol. 14, 312-323.Elsevier.

### **2017**

#### **Understanding the impact properties of polymeric sandwich structures used for motorcyclists' back protectors.**

Nasim M, Brasca M, Khosroshahi SF and Galvanetto U. *Polymer Testing* vol. 61, 249-257.Elsevier.

#### **Optimization of the Chin Bar of a Composite-Shell Helmet to Mitigate the Upper Neck Force.**

Farajzadeh Khosroshahi S, Galvanetto U and Ghajari M. *Applied Composite Materials* vol. 24, (4) 931-944.

2011

**Determination of the Constants of Zerilli-Armstrong Constitutive Relation Using Genetic Algorithm.**  
Majzoobi GH, Khosroshahi SFZ and Mohammadloo HB. *Trans Tech Publications*.

2010

**Determination of materials parameters under dynamic loading Part II: Optimization.**  
Majzoobi GH, Khosroshahi SFZ and Mohammadloo HB. *Computational Materials Science* vol. 49, (2) 201-208.  
*Elsevier*.

**Determination of materials parameters under dynamic loading. Part I: Experiments and simulations.**  
Majzoobi GH, Freshteh-Sanee F, Khosroshahi SFZ and Mohammadloo HB. *Computational Materials Science* vol. 49, (2) 192-200.*Elsevier*.