Cengiz Baykasoglu

List of Publications by Year
in descending order

37 papers	1,079 citations	394421 19 h-index	414414 32 g-index
37 all docs	37 docs citations	37 times ranked	837 citing authors

#	Article	IF	Citations
1	Energy absorption of thin-walled tubes enhanced by lattice structures. International Journal of Mechanical Sciences, 2019, 157-158, 471-484.	6.7	101
2	Multi-objective crashworthiness optimization of lattice structure filled thin-walled tubes. Thin-Walled Structures, 2020, 149, 106630.	5.3	79
3	Energy absorption of circular aluminium tubes with functionally graded thickness under axial impact loading. International Journal of Crashworthiness, 2015, 20, 95-106.	1.9	77
4	Sandwiched graphene-fullerene composite: A novel 3-D nanostructured material for hydrogen storage. International Journal of Hydrogen Energy, 2016, 41, 6403-6411.	7.1	73
5	An experimental study on the compressive response of CFRP honeycombs with various cell configurations. Composites Part B: Engineering, 2019, 162, 653-661.	12.0	68
6	Predicting Microstructure Evolution During Directed Energy Deposition Additive Manufacturing of Ti-6Al-4V. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2018, 140, .	2.2	56
7	Railroad passenger car collision analysis and modifications for improved crashworthiness. International Journal of Crashworthiness, 2011, 16, 319-329.	1.9	48
8	Effect of attachment types and number of implants supporting mandibular overdentures on stress distribution: A computed tomography-based 3D finite element analysis. Journal of Biomechanics, 2015, 48, 130-137.	2.1	47
9	Crashworthiness of graded lattice structure filled thin-walled tubes under multiple impact loadings. Thin-Walled Structures, 2020, 154, 106849.	5.3	47
10	Nonlinear fracture analysis of single-layer graphene sheets. Engineering Fracture Mechanics, 2012, 96, 241-250.	4.3	45
11	Hydrogen storage in heat welded random CNT network structures. International Journal of Hydrogen Energy, 2015, 40, 403-411.	7.1	44
12	Development of a design for a crash energy management system for use in a railway passenger car. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2016, 230, 206-219.	2.0	37
13	Multiple objective crashworthiness optimization of circular tubes with functionally graded thickness via artificial neural networks and genetic algorithms. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2017, 231, 2005-2016.	2.1	32
14	Dynamic analysis of single-layer graphene sheets. Computational Materials Science, 2012, 55, 228-236.	3.0	30
15	A comparative study on crashworthiness of thin-walled tubes with functionally graded thickness under oblique impact loadings. International Journal of Crashworthiness, 2019, 24, 453-471.	1.9	27
16	Li-doped fullerene pillared graphene nanocomposites for enhancing hydrogen storage: A computational study. Computational Materials Science, 2021, 186, 110023.	3.0	25
17	Monte Carlo simulations of hydrogen adsorption in fullerene pillared graphene nanocomposites. Molecular Simulation, 2020, 46, 650-659.	2.0	22
18	Crash and structural analyses of an aluminium railroad passenger car. International Journal of Crashworthiness, 2012, 17, 519-528.	1.9	21

#	Article	IF	Citations
19	Quasi-static Axial Crushing Behavior of Thin-walled Circular Aluminum Tubes with Functionally Graded Thickness. Procedia Engineering, 2016, 149, 559-565.	1.2	21
20	Nonlinear failure analysis of carbon nanotubes by using molecular-mechanics based models. Composites Part B: Engineering, 2013, 50, 150-157.	12.0	20
21	Tensile behavior of heat welded CNT network structures. Computational Materials Science, 2014, 88, 14-21.	3.0	19
22	Optimal design of truss structures using weighted superposition attraction algorithm. Engineering With Computers, 2020, 36, 965-979.	6.1	19
23	Crashworthiness optimization of circular tubes with functionally-graded thickness. Engineering Computations, 2016, 33, 1560-1585.	1.4	18
24	Effects of lithium doping on hydrogen storage properties of heat welded random CNT network structures. International Journal of Hydrogen Energy, 2016, 41, 8246-8255.	7.1	18
25	Weighted superposition attraction-repulsion (WSAR) algorithm for truss optimization with multiple frequency constraints. Structures, 2021, 30, 253-264.	3.6	15
26	Coupled molecular/continuum mechanical modeling of graphene sheets. Physica E: Low-Dimensional Systems and Nanostructures, 2012, 45, 151-161.	2.7	14
27	Rollover crashworthiness analysis of a railroad passenger car. International Journal of Crashworthiness, 2013, 18, 492-501.	1.9	12
28	The Influence of the Attachment Type and Implant Number Supporting Mandibular Overdentures on Stress Distribution. Implant Dentistry, 2013, 22, 39-48.	1.3	12
29	A process-microstructure finite element simulation framework for predicting phase transformations and microhardness for directed energy deposition of Ti6Al4V. Additive Manufacturing, 2020, 35, 101252.	3.0	11
30	Thermal-stress analysis of ceramic laminate veneer restorations with different incisal preparations using micro-computed tomography-based 3D finite element models. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 75, 302-313.	3.1	9
31	Grand canonical Monte Carlo simulations of methane adsorption in fullerene pillared graphene nanocomposites. Journal of Molecular Graphics and Modelling, 2021, 106, 107909.	2.4	5
32	Bending Response of Lattice Structure Filled Tubes under Transverse Loading. Hittite Journal of Science & Engineering, 2022, 9, 151-158.	0.5	5
33	NONLINEAR FRACTURE ANALYSIS OF CARBON NANOTUBES WITH STONE-WALES DEFECTS. , 2013, , .		1
34	Computational Modeling of T Cell Hypersensitivity during Coronavirus Infections Leading to Autoimmunity and Lethality. Computational and Mathematical Methods in Medicine, 2022, 2022, 1-21.	1.3	1
35	VIBRATION AND ELASTIC BUCKLING ANALYSES OF SINGLEWALLED CARBON NANOCONES. , 2013, , .		0
36	Failure Analysis of Graphene Sheets with Multiple Stone-Thrower-Wales Defects Using Molecular-Mechanics Based Nonlinear Finite Element Models. Hittite Journal of Science & Engineering, 2018, , .	0.5	0

#	Article	IF	Citations
37	Experimental and Numerical Investigation on the Effect of the Structural Characteristics of a Fin Actuation System on System Performance. Gazi Mühendislik Bilimleri Dergisi, 2020, 6, .	0.3	0