

Laura Maria Vergani

List of Publications by Year in descending order

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35
papers

786
citations

516710

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526287

27
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37
all docs

37
docs citations

37
times ranked

905
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanical Design Optimization of Prosthetic Hand's Fingers: Novel Solutions towards Weight Reduction. <i>Materials</i> , 2022, 15, 2456.	2.9	4
2	Assessing the intimate mechanobiological link between human bone micro-scale trabecular architecture and micro-damages. <i>Engineering Fracture Mechanics</i> , 2022, 270, 108582.	4.3	9
3	Rapid estimation of fatigue limit for C45 steel by thermography and digital image correlation. <i>Journal of Strain Analysis for Engineering Design</i> , 2021, 56, 478-491.	1.8	8
4	A Review on Multiscale Bone Damage: From the Clinical to the Research Perspective. <i>Materials</i> , 2021, 14, 1240.	2.9	17
5	Heat Treatments for Stress Relieving AlSi9Cu3 Alloy Produced by Laser Powder Bed Fusion. <i>Materials</i> , 2021, 14, 4184.	2.9	8
6	Down to the Bone: A Novel Bio-Inspired Design Concept. <i>Materials</i> , 2021, 14, 4226.	2.9	7
7	Torsion-Resistant Structures: A Nature Addressed Solution. <i>Materials</i> , 2021, 14, 5368.	2.9	10
8	2D and 3D numerical models to evaluate trabecular bone damage. <i>Medical and Biological Engineering and Computing</i> , 2021, 59, 2139-2152.	2.8	11
9	Mapping local mechanical properties of human healthy and osteoporotic femoral heads. <i>Materialia</i> , 2021, 20, 101229.	2.7	4
10	Reproducibility of DXA-based bone strain index and the influence of body mass: an in vivo study. <i>Radiologia Medica</i> , 2020, 125, 313-318.	7.7	7
11	Fatigue-caused damage in trabecular bone from clinical, morphological and mechanical perspectives. <i>International Journal of Fatigue</i> , 2020, 133, 105451.	5.7	12
12	Influence of manufacturing process on fatigue resistance of high strength steel bolts for connecting rods. <i>Engineering Failure Analysis</i> , 2020, 109, 104330.	4.0	5
13	Squeeze-winding: A new manufacturing route for biomimetic fiber-reinforced structures. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020, 132, 105839.	7.6	8
14	Bone-inspired enhanced fracture toughness of de novo fiber reinforced composites. <i>Scientific Reports</i> , 2019, 9, 3142.	3.3	37
15	Effect of delamination on the fatigue life of GFRP: A thermographic and numerical study. <i>Composite Structures</i> , 2019, 218, 152-161.	5.8	20
16	Thermographic applications for the rapid estimation of fatigue limit. <i>Procedia Structural Integrity</i> , 2019, 24, 658-666.	0.8	12
17	A new finite element based parameter to predict bone fracture. <i>PLoS ONE</i> , 2019, 14, e0225905.	2.5	27
18	A multiscale XFEM approach to investigate the fracture behavior of bio-inspired composite materials. <i>Composites Part B: Engineering</i> , 2018, 141, 258-264.	12.0	20

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19	Optimization of filament winding parameters for the design of a composite pipe. <i>Composites Part B: Engineering</i> , 2018, 148, 207-216.	12.0	57
20	Thermographic stepwise assessment of impact damage in sandwich panels. <i>Composite Structures</i> , 2018, 184, 279-287.	5.8	16
21	Determinants of bone damage: An ex-vivo study on porcine vertebrae. <i>PLoS ONE</i> , 2018, 13, e0202210.	2.5	26
22	Computational Framework to Predict Failure and Performance of Bone-Inspired Materials. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 3236-3243.	5.2	22
23	Bone-Inspired Materials by Design: Toughness Amplification Observed Using 3D Printing and Testing. <i>Advanced Engineering Materials</i> , 2016, 18, 1354-1363.	3.5	138
24	Understanding the structure-property relationship in cortical bone to design a biomimetic composite. <i>Composite Structures</i> , 2016, 139, 188-198.	5.8	52
25	Fatigue behavior of hydrogen pre-charged low alloy Cr-Mo steel. <i>International Journal of Fatigue</i> , 2016, 83, 2-9.	5.7	48
26	Impact behaviour of 3-layered metal-polymer-metal sandwich panels. <i>Composite Structures</i> , 2015, 133, 140-147.	5.8	10
27	A review of thermographic techniques for damage investigation in composites. <i>Frattura Ed Integrità Strutturale</i> , 2014, 8, 1-12.	0.9	26
28	Bone Toughness and Crack Propagation: An Experimental Study. <i>Procedia Engineering</i> , 2014, 74, 464-467.	1.2	25
29	Crack Propagation in Cortical Bone: A Numerical Study. , 2014, 3, 1524-1529.		26
30	Hydrogen Effect on Fatigue Behavior of a Quenched&tempered Steel. <i>Procedia Engineering</i> , 2014, 74, 468-471.	1.2	18
31	Influence of delamination on fatigue properties of a fibreglass composite. <i>Composite Structures</i> , 2014, 107, 325-333.	5.8	38
32	Fracture mechanics of hydroxyapatite single crystals under geometric confinement. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2013, 20, 184-191.	3.1	31
33	Multi-axial fatigue life estimation of unidirectional GFRP composite. <i>International Journal of Fatigue</i> , 2011, 33, 1032-1039.	5.7	12
34	Design of an ankle prosthesis for swimming and walking. <i>Procedia Engineering</i> , 2011, 10, 3503-3509.	1.2	6
35	Failure analysis of a non-integral pipeline collet connector. <i>Engineering Failure Analysis</i> , 2005, 12, 711-719.	4.0	9