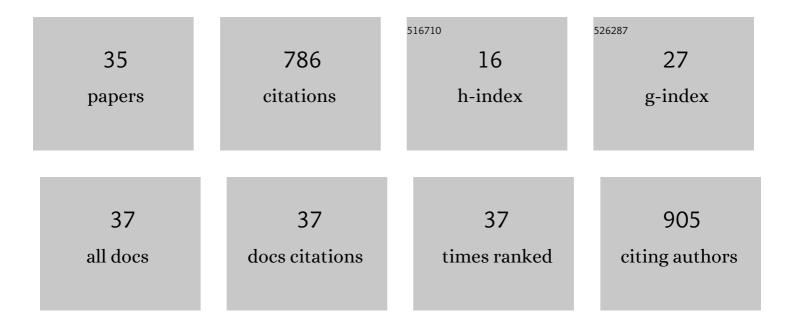
## Laura Maria Vergani

List of Publications by Year in descending order

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

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