Roberto Guglielmo Citarella

List of Publications by Year
in descending order

103	1,874	279798	315739
papers	citations	23 h-index	38 g-index

104	104	104	1178
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Crack Growth Propagation Prediction in Non-Proportional Mixed-Mode Missions. Procedia Structural Integrity, 2022, 39, 582-598.	0.8	1
2	Mixed mode surface crack growth in aluminium alloys under complex stress state. Procedia Structural Integrity, 2022, 39, 364-378.	0.8	6
3	Dynamic Stiffness Matrix Approach to Free Vibration Analysis of Functionally Graded Rotor Bearing System Subjected to Thermal Gradients. Materials, 2022, 15, 1540.	2.9	2
4	Thermalâ€“Mechanical FEM Analyses of a Liquid Rocket Engines Thrust Chamber. Applied Sciences (Switzerland), 2022, 12, 3443.	2.5	7
5	Fatigue crack propagation for an aircraft compressor under input data variability. Procedia Structural Integrity, 2022, 41, 298-304.	0.8	5
6	Structural FEM Analyses of a Landing Gear Testing Machine. Metals, 2022, 12, 937.	2.3	3
7	A Study on Dynamic Behaviour of Thermally Distributed Exponentially Graded Rotor System with Induced Porosities. Mathematical Problems in Engineering, 2022, 2022, 1-14.	1.1	0
8	Development and Validation of an Aeropropulsive and Aeroacoustic Simulation Model of a Quadcopter Drone. Drones, 2022, 6, 143.	4.9	1
9	Advances in Vibroacoustics and Aeroacustics of Marine, Aerospace and Automotive Systems. Applied Sciences (Switzerland), 2022, 12, 6080.	2.5	0
10	Vibro-Acoustic Modelling of Aeronautical Panels Reinforced by Unconventional Stiffeners. Aerospace, 2022, 9, 327.	2.2	2
11	Steady State and Transient Vibration Analysis of an Exponentially Graded Rotor Bearing System Having a Slant Crack. Applied Sciences (Switzerland), 2022, 12, 6900.	2.5	1
12	Numerical and experimental investigation of mixedâ€mode crack growth in aluminum alloys. Fatigue and Fracture of Engineering Materials and Structures, 2022, 45, 2854-2872.	3.4	5
13	Serum changes in sTWEAK and its scavenger receptor sCD163 in ultramarathon athletes running the 24-h race. Cytokine, 2021, 137, 155315.	3.2	5
14	Additive Manufacturing in Industry. Applied Sciences (Switzerland), 2021, 11, 840.	2.5	16
15	Mixed-mode crack growth simulation in aviation engine compressor disk. Engineering Fracture Mechanics, 2021, 246, 107617.	4.3	15
16	FEM Modelling Approaches of Bolt Connections for the Dynamic Analyses of an Automotive Engine. Applied Sciences (Switzerland), 2021, 11, 4343.	2.5	6
17	Experimental/Numerical Acoustic Assessment of Aircraft Seat Headrests Based on Electrospun Mats. Applied Sciences (Switzerland), 2021, 11, 6400.	2.5	6
18	Face Damage Growth of Sandwich Composites under Compressive Loading: Experiments, Analytical and Finite Element Modeling. Materials, 2021, 14, 5553.	2.9	1

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19	Vibroacoustic Assessment of an Innovative Composite Material for the Roof of a Coupe Car. Applied Sciences (Switzerland), 2021, 11, 1128.	2.5	2
20	Free Vibration Analysis of a Thermally Loaded Porous Functionally Graded Rotorâ€“Bearing System. Applied Sciences (Switzerland), 2020, 10, 8197.	2.5	7
21	Acoustic Improvements of Aircraft Headrests Based on Electrospun Mats Evaluated Through Boundary Element Method. Applied Sciences (Switzerland), 2020, 10, 5712.	2.5	7
22	Assessment of Crash Performance of an Automotive Component Made through Additive Manufacturing. Applied Sciences (Switzerland), 2020, 10, 9106.	2.5	8
23	Effect of Corrosion on the Natural and Whirl Frequencies of a Functionally Graded Rotor-Bearing System Subjected to Thermal Gradients. Materials, 2020, 13, 4546.	2.9	7
24	On the Adoption of Global/Local Approaches for the Thermomechanical Analysis and Design of Liquid Rocket Engines. Applied Sciences (Switzerland), 2020, 10, 7664.	2.5	11
25	Editorial on Special Issue â€œFatigue and Fracture Behaviour of Additive Manufacturing Mechanical Componentsâ€• Applied Sciences (Switzerland), 2020, 10, 1652.	2.5	4
26	Aeroacustic and Vibroacoustic Advancement in Aerospace and Automotive Systems. Applied Sciences (Switzerland), 2020, 10, 3853.	2.5	6
27	Influences of Material Variations of Functionally Graded Pipe on the Bree Diagram. Applied Sciences (Switzerland), 2020, 10, 2936.	2.5	5
28	A Novel Optimization Framework to Replicate the Vibro-Acoustics Response of an Aircraft Fuselage. Applied Sciences (Switzerland), 2020, 10, 2473.	2.5	11
29	Surface crack modelling in an engine compressor disc. Theoretical and Applied Fracture Mechanics, 2019, 103, 102279.	4.7	18
30	Overview of first Wendelstein 7-X high-performance operation. Nuclear Fusion, 2019, 59, 112004.	3.5	165
31	Study of Mixed-Mode Cracking of Dovetail Root of an Aero-Engine Blade Like Structure. Applied Sciences (Switzerland), 2019, 9, 3825.	2.5	6
32	Combined static-cyclic multi-axial crack propagation in cruciform specimens. International Journal of Fatigue, 2019, 123, 296-307.	5.7	35
33	Moisture absorption in thick composite plates: modelling and experiments. Multidiscipline Modeling in Materials and Structures, 2019, 16, 439-447.	1.3	3
34	Characterization of equivalent acoustic sources to reproduce the acoustic field generated by engines on an aircraft fuselage. Procedia Structural Integrity, 2019, 24, 559-568.	0.8	2
35	Substructuring of a Petrol Engine: Dynamic Characterization and Experimental Validation. Applied Sciences (Switzerland), 2019, 9, 4969.	2.5	9
36	BEM in Biomechanics. , 2018, , 145-167.		0

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37	Dual boundary element method and finite element method for mixedâ€•mode crack propagation simulations in a cracked hollow shaft. Fatigue and Fracture of Engineering Materials and Structures, 2018, 41, 84-98.	3.4	33
38	LCF assessment on heat shield components of nuclear fusion experiment â€œWendelstein 7-Xâ€•by critical plane criteria. Procedia Structural Integrity, 2018, 8, 318-331.	0.8	16
39	FEM-DBEM approach to simulate crack propagation in a turbine vane segment undergoing a fatigue load spectrum. Procedia Structural Integrity, 2018, 12, 479-491.	0.8	8
40	Integrated Aeroâ€“Vibroacoustics: The Design Verification Process of Vega-C Launcher. Applied Sciences (Switzerland), 2018, 8, 88.	2.5	16
41	Modelling and Optimizing Structural Behavior of Advanced Materials for Aerospace. International Journal of Aerospace Engineering, 2018, 2018, 1-2.	0.9	2
42	Multibody Simulation for the Vibration Analysis of a Turbocharged Diesel Engine. Applied Sciences (Switzerland), 2018, 8, 1192.	2.5	23
43	Simulation of a multi-cylinder engine vibrational behaviour. International Journal of Vehicle Noise and Vibration, 2018, 14, 101.	0.1	6
44	Overview of fatigue life assessment of baffles in Wendelstein 7-X. Fusion Engineering and Design, 2018, 136, 292-297.	1.9	19
45	Advances in Vibroacoustics and Aeroacustics of Aerospace and Automotive Systems. Applied Sciences (Switzerland), 2018, 8, 366.	2.5	19
46	Impact of the 24-h ultramarathon race on homocysteine, oxidized low-density lipoprotein, and paraoxonase 1 levels in professional runners. PLoS ONE, 2018, 13, e0192392.	2.5	12
47	Simulation of the vibrational behaviour of a multi-cylinder engine. International Journal of Vehicle Noise and Vibration, 2018, 1, 1.	0.1	1
48	Lay-up Optimization of Laminated Composites Using a Modified Branch and Bound Method. The Open Mechanical Engineering Journal, 2018, 12, 138-150.	0.3	5
49	Realistic Stacking Sequence Optimisation of an Aero-Engine Fan Blade-Like Structure Subjected to Frequency, Deformation and Manufacturing Constraints. The Open Mechanical Engineering Journal, 2018, 12, 151-163.	0.3	5
50	Analytical solutions for yield onset achievement in FGM thick walled cylindrical tubes undergoing thermomechanical loads. Composites Part B: Engineering, 2017, 116, 211-223.	12.0	20
51	Retardation effects due to overloads in aluminiumâ€alloy aeronautical components. Fatigue and Fracture of Engineering Materials and Structures, 2017, 40, 1484-1500.	3.4	4
52	Efficient FEM-DBEM coupled approach for crack propagation simulations. Theoretical and Applied Fracture Mechanics, 2017, 91, 76-85.	4.7	32
53	Fatigue life assessment in lateral support element of a magnet for nuclear fusion experiment â€œWendelstein 7-Xâ€• Engineering Fracture Mechanics, 2017, 178, 243-257.	4.3	31
54	Major results from the first plasma campaign of the Wendelstein 7-X stellarator. Nuclear Fusion, 2017, 57, 102020.	3.5	128

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55	Numerical and Experimental Investigation on the Structural Behaviour of a Horizontal Stabilizer under Critical Aerodynamic Loading Conditions. Advances in Materials Science and Engineering, 2017, 2017, 1-12.	1.8	15
56	Failure Analysis for a Low Pressure Aeroengine Turbine Vane. The Open Mechanical Engineering Journal, 2017, 11, 1-13.	0.3	1
57	FEM-DBEM approach to analyse crack scenarios in a baffle cooling pipe undergoing heat flux from the plasma. AIMS Materials Science, 2017, 4, 391-412.	1.4	8
58	Coupled FEMâ€“DBEM approach on multiple crack growth in cryogenic magnet system of nuclear fusion experiment â€˜Wendelstein 7â€Xâ€™. Fatigue and Fracture of Engineering Materials and Structures, 2016, 39, 1488-1502.	3.4	9
59	Dynamic analysis of a car engine valve train system. International Journal of Vehicle Noise and Vibration, 2016, 12, 229.	0.1	8
60	Multiple crack growth prediction in AA2024-T3 friction stir welded joints, including manufacturing effects. International Journal of Fatigue, 2016, 90, 69-77.	5.7	40
61	Multiaxial Fatigue Crack Propagation of an Edge Crack in a Cylindrical Specimen Undergoing Combined Tension-Torsion Loading. Procedia Structural Integrity, 2016, 2, 2706-2717.	0.8	7
62	Coupled FEM-DBEM Simulation of 3D Crack Growth under Fatigue Load Spectrum. Procedia Structural Integrity, 2016, 2, 2631-2642.	0.8	2
63	FEM-DBEM approach for crack propagation in a low pressure aeroengine turbine vane segment. Theoretical and Applied Fracture Mechanics, 2016, 86, 143-152.	4.7	49
64	Hybrid technique to assess the fatigue performance of multiple cracked FSW joints. Engineering Fracture Mechanics, 2016, 162, 38-50.	4.3	42
65	DBEM crack propagation in friction stir welded aluminum joints. Advances in Engineering Software, 2016, 101, 50-59.	3.8	40
66	Dynamic analysis of a car engine valve train system. International Journal of Vehicle Noise and Vibration, 2016, 12, 229.	0.1	1
67	Residual strength evaluation by DBEM for a cracked lap joint. Frattura Ed Integrita Strutturale, 2016, 10, 523-533.	0.9	4
68	Multiple crack propagation by DBEM in a riveted butt-joint: a simplified bidimensional approach. Frattura Ed Integrita Strutturale, 2016, 10, 160-167.	0.9	3
69	Multiple crack propagation by DBEM in a riveted lap-joint. AIMS Materials Science, 2016, 3, 1577-1586.	1.4	0
70	Integrated FEM-DBEM Simulation of Crack Propagation in AA2024-T3 FSW Butt Joints Considering Manufacturing Effects. Key Engineering Materials, 2015, 651-653, 877-882.	0.4	3
71	A FEM-DBEM investigation of the influence of process parameters on crack growth in aluminum friction stir welded butt joints. International Journal of Material Forming, 2015, 8, 591-599.	2.0	30
72	Assessment of structural integrity of subsea wellhead system: analytical and numerical study. Frattura Ed Integrita Strutturale, 2015, 9, 97-119.	0.9	5

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73	FEM simulation of a crack propagation in a round bar under combined tension and torsion fatigue loading. Frattura Ed Integrita Strutturale, 2015, 9, 138-147.	0.9	7
74	Crack Growth Behavior of Welded Stiffened Panel. Procedia Engineering, 2015, 109, 473-483.	1.2	22
75	Numericalâ€“experimental crack growth analysis in AA2024-T3 FSWed butt joints. Advances in Engineering Software, 2015, 80, 47-57.	3.8	39
76	Three-Dimensional BEM and FEM Submodelling in a Cracked FML Full Scale Aeronautic Panel. Applied Composite Materials, 2014, 21, 557-577.	2.5	41
77	Fatigue surface crack growth in cylindrical specimen under combined loading. Engineering Fracture Mechanics, 2014, 131, 439-453.	4.3	43
78	Thermo-mechanical crack propagation in aircraft engine vane by coupled FEMâ€“DBEM approach. Advances in Engineering Software, 2014, 67, 57-69.	3.8	43
79	Elastic Multi Body Simulation of a Multi-Cylinder Engine. The Open Mechanical Engineering Journal, 2014, 8, 157-169.	0.3	9
80	Analysis of Occlusal Stresses Transmitted to the Inferior Alveolar Nerve by Multiple Threaded Implants. Journal of Periodontology, 2013, 84, 1-7.	3.4	14
81	Coupled FEM-DBEM method to assess crack growth in magnet system of Wendelstein 7-X. Frattura Ed Integrita Strutturale, 2013, 7, 92-103.	0.9	17
82	FEM-BEM Numerical Procedure for Insertion Loss Assessment of an Engine Beauty Cover. The Open Mechanical Engineering Journal, 2013, 7, 27-34.	0.3	17
83	FEM and BEM Analysis of a Human Mandible with Added Temporomandibular Joints. The Open Mechanical Engineering Journal, 2012, 6, 100-114.	0.3	13
84	Stress Analysis of an Endosseus Dental Implant by BEM and FEM. The Open Mechanical Engineering Journal, 2012, 6, 115-124.	0.3	8
85	FML full scale aeronautic panel under multiaxial fatigue: Experimental test and DBEM Simulation. Engineering Fracture Mechanics, 2011, 78, 1717-1728.	4.3	38
86	MSD crack propagation by DBEM on a repaired aeronautic panel. Advances in Engineering Software, 2011, 42, 887-901.	3.8	23
87	Acoustic Analysis of an Exhaust MANIFOLD by INDIRECT Boundary Element Method. The Open Mechanical Engineering Journal, 2011, 5, 138-151.	0.3	22
88	Comparison of DBEM and FEM crack path predictions in a notched shaft under torsion. Engineering Fracture Mechanics, 2010, 77, 1730-1749.	4.3	63
89	DBEM and FEM Analysis of an Extrusion Press Fatigue Failure. Advanced Structured Materials, 2010, , 181-191.	0.5	10
90	Fem Sensitivity Analyses on the Stress Levels in a Human Mandible with a Varying ATM Modelling Complexity~!2009-02-09~!2010-01-15~!2010-04-01~!. The Open Mechanical Engineering Journal, 2010, 4, 8-15.	0.3	4

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91	A two-parameter model for crack growth simulation by combined FEMâ€“DBEM approach. Advances in Engineering Software, 2009, 40, 363-377.	3.8	36
92	Non-linear MSD crack growth by DBEM for a riveted aeronautic reinforcement. Advances in Engineering Software, 2009, 40, 253-259.	3.8	25
93	Comparison of crack growth simulation by DBEM and FEM for SEN-specimens undergoing torsion or bending loading. Engineering Fracture Mechanics, 2008, 75, 489-509.	4.3	69
94	Analysis of the Occlusal Stress Transmitted to the Inferior Alveolar Nerve by an Osseointegrated Threaded Fixture. Journal of Periodontology, 2008, 79, 1735-1744.	3.4	35
95	Modal acoustic transfer vector approach in a FEMâ€“BEM vibro-acoustic analysis. Engineering Analysis With Boundary Elements, 2007, 31, 248-258.	3.7	111
96	DBEM and FEM analysis on non-linear multiple crack propagation in an aeronautic doubler-skin assembly. International Journal of Fatigue, 2006, 28, 598-608.	5.7	35
97	Multiple surface crack propagation: numerical simulations and experimental tests. Fatigue and Fracture of Engineering Materials and Structures, 2005, 28, 135-148.	3.4	31
98	Residual strength assessment for a butt-joint in MSD condition. Advances in Engineering Software, 2004, 35, 373-382.	3.8	11
99	Three-dimensional crack growth: Numerical evaluations and experimental tests. European Structural Integrity Society, 2003, , 341-360.	0.1	10
100	BE analysis of shaftâ€“hub couplings with polygonal profiles. Journal of Materials Processing Technology, 2001, 109, 30-37.	6.3	5
101	Multiple Crack Propagation with Dual Boundary Element Method in Stiffened and Reinforced Full Scale Aeronautic Panels. Key Engineering Materials, 0, 560, 129-155.	0.4	28
102	Numerical Crack Growth Analysis in AA2024-T3 Friction Stir Welded Butt Joints. , 0, , .		7
103	FEM Substructuring for the Vibrational Characterization of a Petrol Engine. , 0, , .		1