

# Vittorio Di Cocco

## List of Publications by Year in descending order

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100  
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516710

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docs citations

102  
times ranked

549  
citing authors

#	ARTICLE	IF	CITATIONS
1	Damaging micromechanisms characterization of a ferritic ductile cast iron. <i>Engineering Fracture Mechanics</i> , 2010, 77, 2016-2023.	4.3	76
2	Damaging micromechanisms in ferritic-pearlitic ductile cast irons. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 478, 181-186.	5.6	72
3	Macro and microscopical approach to the damaging micromechanisms analysis in a ferritic ductile cast iron. <i>Theoretical and Applied Fracture Mechanics</i> , 2014, 69, 26-33.	4.7	48
4	Performance evaluation of CFRP/Al fibre metal laminates with different structural characteristics. <i>Composite Structures</i> , 2019, 225, 111117.	5.8	43
5	Graphite nodules and fatigue crack propagation micromechanisms in a ferritic ductile cast iron. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2013, 36, 893-902.	3.4	39
6	Damaging micromechanisms in hot-dip galvanizing Zn based coatings. <i>Theoretical and Applied Fracture Mechanics</i> , 2014, 70, 91-98.	4.7	35
7	Influence of the graphite elements morphology on the fatigue crack propagation mechanisms in a ferritic ductile cast iron. <i>Engineering Fracture Mechanics</i> , 2016, 167, 248-258.	4.3	33
8	Cyclic microstructural transitions and fracture micromechanisms in a near equiatomic NiTi alloy. <i>International Journal of Fatigue</i> , 2014, 58, 136-143.	5.7	29
9	Engineering prediction of fatigue strength for AM50 magnesium alloys. <i>International Journal of Fatigue</i> , 2019, 127, 10-15.	5.7	27
10	Ductile cast irons: Microstructure influence on the fatigue initiation mechanisms. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2019, 42, 2172-2182.	3.4	23
11	Fatigue crack propagation and damaging micromechanisms in Ductile Cast Irons. <i>International Journal of Fatigue</i> , 2019, 124, 48-54.	5.7	22
12	Pearlitic ductile cast iron: damaging micromechanisms at crack tip. <i>Frattura Ed Integrita Strutturale</i> , 2013, 7, 102-108.	0.9	21
13	Ductile cast irons: Microstructure influence on the damaging micromechanisms in overloaded fatigue cracks. <i>Engineering Failure Analysis</i> , 2017, 82, 340-349.	4.0	20
14	Fatigue crack tip damaging micromechanisms in pearlitic ductile cast irons. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2015, 38, 238-245.	3.4	19
15	Fatigue crack propagation and overload damaging micromechanisms in a ferritic-pearlitic ductile cast iron. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2016, 39, 999-1011.	3.4	19
16	Experimental analysis of aluminium/carbon epoxy hybrid laminates under flexural load. <i>Frattura Ed Integrita Strutturale</i> , 2019, 13, 739-747.	0.9	19
17	Grain size and loading conditions influence on fatigue crack propagation in a Cu-Zn-Al shape memory alloy. <i>International Journal of Fatigue</i> , 2018, 115, 27-34.	5.7	17
18	Bending properties of titanium lattice structures produced by electron beam melting process. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021, 44, 1961-1970.	3.4	17

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19	Damaging micromechanisms in an as cast ferritic and a ferritized ductile cast iron. <i>Procedia Structural Integrity</i> , 2017, 3, 201-207.	0.8	16
20	Fatigue analysis of a near-equiatomic pseudo-elastic NiTi SMA. <i>Theoretical and Applied Fracture Mechanics</i> , 2018, 94, 110-119.	4.7	16
21	Overload effects on fatigue cracks in a ferritized ductile cast iron. <i>International Journal of Fatigue</i> , 2019, 127, 376-381.	5.7	16
22	Fatigue crack behavior on a Cu-Zn-Al SMA. <i>Frattura Ed Integrita Strutturale</i> , 2014, 8, 454-461.	0.9	14
23	Ductile cast irons: microstructure influence on fatigue crack propagation resistance. <i>Frattura Ed Integrita Strutturale</i> , 2010, 4, 3-16.	0.9	14
24	Damaging Micromechanisms Characterization in Pearlitic Ductile Cast Irons. , 2014, 3, 295-300.		13
25	Characterisation of the damaging micromechanisms in a pearlitic ductile cast iron and damage assessment by acoustic emission testing. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2020, 43, 1038-1050.	3.4	13
26	Additive manufacturing processes for metals and effects of defects on mechanical strength: a review. <i>Procedia Structural Integrity</i> , 2021, 33, 498-508.	0.8	13
27	Graphite Nodules Influence on DCIs Mechanical Properties: experimental and Numerical Investigation. <i>Procedia Engineering</i> , 2015, 109, 135-143.	1.2	12
28	Titanium lattice structures manufactured by EBM process: Effect of skin material on bending characteristics. <i>Engineering Fracture Mechanics</i> , 2022, 260, 108180.	4.3	12
29	Sn and Ti influences on intermetallic phases damage in hot dip galvanizing. <i>Frattura Ed Integrita Strutturale</i> , 2012, 6, 31-38.	0.9	11
30	Kinetics of Intermetallic Phases and Mechanical Behavior of ZnSn3% Hot Dip Galvanization Coatings. <i>Advanced Engineering Materials</i> , 2016, 18, 2088-2094.	3.5	11
31	Classification of ductile cast iron specimens based on image analysis and support vector machine. <i>Procedia Structural Integrity</i> , 2017, 3, 283-290.	0.8	11
32	Damage micromechanisms in a hot dip galvanized steel. <i>Procedia Structural Integrity</i> , 2017, 3, 231-236.	0.8	11
33	Influence of structural characteristics on the interlaminar shear strength of CFRP/Al fibre metal laminates. <i>Procedia Structural Integrity</i> , 2019, 18, 373-378.	0.8	11
34	Relation between microstructural heterogeneities and damage mechanisms of a ferritic spheroidal graphite cast iron during tensile loading. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2020, 43, 1262-1273.	3.4	11
35	Potentiality of hybrid structures in CFRP and additive manufactured metal octet-truss lattice. <i>Procedia Structural Integrity</i> , 2020, 28, 667-674.	0.8	11
36	Novel zinc-based alloys used to improve the corrosion protection of metallic substrates. <i>Engineering Failure Analysis</i> , 2017, 82, 327-339.	4.0	10

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37	Mechanical and Structural Characterization of Zn-Ti Colored Coatings. <i>Procedia Engineering</i> , 2015, 109, 105-112.	1.2	9
38	Ti-6Al-4V Octet-Truss Lattice Structures under Bending Load Conditions: Numerical and Experimental Results. <i>Metals</i> , 2022, 12, 410.	2.3	9
39	Pearlitic Ductile Cast Iron: mechanical properties gradient analysis in graphite elements. <i>Procedia Structural Integrity</i> , 2018, 9, 9-15.	0.8	8
40	A simple model to calculate the microstructure evolution in a NiTi SMA. <i>Frattura Ed Integrita Strutturale</i> , 2018, 12, 173-182.	0.9	8
41	Failure energy and stiffness of titanium lattice specimens produced by electron beam melting process. <i>Material Design and Processing Communications</i> , 2021, 3, .	0.9	8
42	Sintered stainless steels: Fatigue crack propagation resistance under hydrogen charging conditions. <i>Corrosion Science</i> , 2007, 49, 2099-2117.	6.6	7
43	22 Cr 5 Ni duplex and 25 Cr 7 Ni superduplex stainless steel: Hydrogen influence on fatigue crack propagation resistance. <i>Engineering Fracture Mechanics</i> , 2008, 75, 705-714.	4.3	7
44	Stress triaxiality influence on damaging micromechanisms in a pearlitic ductile cast iron. <i>Frattura Ed Integrita Strutturale</i> , 2014, 8, 462-468.	0.9	7
45	Analysis of the intergranular corrosion susceptibility in stainless steel by means of potentiostatic reactivation tests. <i>Procedia Structural Integrity</i> , 2017, 3, 269-275.	0.8	7
46	Comparison between long and short beam flexure of a carbon fibre based FML. <i>Procedia Structural Integrity</i> , 2020, 26, 120-128.	0.8	7
47	Mechanical Behaviour and Phase Transition Mechanisms of a Shape Memory Alloy by Means of a Novel Analytical Model. <i>Acta Mechanica Et Automatica</i> , 2018, 12, 105-108.	0.6	7
48	Damaging micromechanisms characterization in a ferritic-pearlitic ductile cast iron. <i>Frattura Ed Integrita Strutturale</i> , 2014, 8, 62-67.	0.9	6
49	Fatigue microstructural evolution in pseudo elastic NiTi alloy. <i>Procedia Structural Integrity</i> , 2016, 2, 1457-1464.	0.8	6
50	High temperature embrittled duplex stainless steels: influence of the chemical composition on the fatigue crack propagation. <i>Procedia Structural Integrity</i> , 2017, 3, 308-315.	0.8	6
51	Duplex stainless steels $\approx 475^{\circ}\text{C}$ embrittlement: influence of the chemical composition on the fatigue crack propagation. <i>Procedia Structural Integrity</i> , 2017, 3, 299-307.	0.8	6
52	Interlaminar shear strength study on CFRP/Al hybrid laminates with different properties. <i>Frattura Ed Integrita Strutturale</i> , 2020, 14, 442-448.	0.9	6
53	Influence of dipping time on cracking during bending of hot dip galvanized coatings with Sn and Ti contents. <i>Frattura Ed Integrita Strutturale</i> , 2010, 4, 52-63.	0.9	5
54	Graphite nodules features identifications and damaging micromechanisms in ductile irons. <i>Frattura Ed Integrita Strutturale</i> , 2013, 7, 12-21.	0.9	5

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55	Overload effects on fatigue cracks in ferritic-pearlitic ductile cast irons. <i>Procedia Structural Integrity</i> , 2016, 2, 3369-3376.	0.8	5
56	Fatigue crack propagation mechanisms in C70250 and CuCrZr copper alloys. <i>Procedia Structural Integrity</i> , 2020, 26, 330-335.	0.8	5
57	Damage analysis of Ti6Al4V lattice structures manufactured by electron beam melting process subjected to bending load. <i>Material Design and Processing Communications</i> , 2021, 3, .	0.9	5
58	A cyclic integrated microstructural-mechanical model for a shape memory alloy. <i>International Journal of Fatigue</i> , 2021, 153, 106473.	5.7	5
59	Fatigue crack tip damaging micromechanisms in a ferritic-pearlitic ductile cast iron. <i>Frattura Ed Integrita Strutturale</i> , 2015, 9, 111-119.	0.9	5
60	Bath chemical composition influence on intermetallic phases damage in hot dip galvanizing. <i>Procedia Structural Integrity</i> , 2022, 39, 574-581.	0.8	5
61	Fatigue Crack Propagation in a Ferritic-pearlitic DCI: Overload Effects on Damaging Mechanisms. <i>Procedia Engineering</i> , 2015, 109, 35-42.	1.2	4
62	Fatigue crack propagation in Ductile Cast Irons: an Artificial Neural Networks based model. <i>Procedia Structural Integrity</i> , 2017, 3, 291-298.	0.8	4
63	The influence of hot dip galvanizing process on intermetallic phases formation. <i>Material Design and Processing Communications</i> , 2019, 1, e39.	0.9	4
64	Flexural strength of aluminium carbon/epoxy fibre metal laminates. <i>Material Design and Processing Communications</i> , 2019, 1, e40.	0.9	4
65	Study of the fracture behavior of a CuCrZr alloy. <i>Material Design and Processing Communications</i> , 2020, 2, e113.	0.9	4
66	Microstructural damage evaluation of ferritic-ausferritic spheroidal graphite cast iron. <i>Frattura Ed Integrita Strutturale</i> , 2020, 14, 477-485.	0.9	4
67	Sn and Ti influence on damage of bent hot-dip galvanizing phases. <i>Procedia Structural Integrity</i> , 2017, 3, 224-230.	0.8	3
68	Crack path and damage in a CuZnAl SMA. <i>Procedia Structural Integrity</i> , 2017, 3, 217-223.	0.8	3
69	Bending damages in galvanized ductile cast irons. <i>Procedia Structural Integrity</i> , 2018, 9, 265-271.	0.8	3
70	Numerical model development to predict the process-induced residual stresses in fibre metal laminates. <i>Forces in Mechanics</i> , 2021, 3, 100017.	2.8	3
71	Classification of ductile cast iron specimens: a machine learning approach. <i>Frattura Ed Integrita Strutturale</i> , 2017, 11, 231-238.	0.9	3
72	Numerical Simulation of Traditional and Technological Zinc-Based Coatings: Part I. <i>Advanced Engineering Materials</i> , 2022, 24, .	3.5	3

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73	Pearlitic Ductile Cast Irons: Fatigue Initiation Micromechanisms. <i>Procedia Engineering</i> , 2015, 109, 465-472.	1.2	2
74	Pearlitic ductile cast iron: fatigue crack paths and damaging micromechanisms. <i>Procedia Structural Integrity</i> , 2018, 13, 192-197.	0.8	2
75	Analysis of CFRP/Al hybrid laminates flexural strength. <i>Procedia Structural Integrity</i> , 2019, 18, 368-372.	0.8	2
76	Hydrogen embrittlement in a 2101 lean Duplex Stainless Steel. <i>Procedia Structural Integrity</i> , 2019, 18, 391-398.	0.8	2
77	Failure energy and strength of Al/CFRP hybrid laminates under flexural load. <i>Material Design and Processing Communications</i> , 2020, 2, e109.	0.9	2
78	Assessment of fatigue damage in a fully pearlitic ductile cast iron by evaluation of Acoustic Emission Entropy. <i>Procedia Structural Integrity</i> , 2020, 25, 364-369.	0.8	2
79	Analysis of acoustic emission entropy for damage assessment of pearlitic ductile cast irons. <i>Material Design and Processing Communications</i> , 2020, 2, e158.	0.9	2
80	Damage evolution during tensile test of austempered ductile iron partially austenized. <i>Material Design and Processing Communications</i> , 2020, 2, e157.	0.9	2
81	Performance index of isogrid structures: robotic filament winding carbon fiber reinforced polymer vs. titanium alloy. <i>Materials and Manufacturing Processes</i> , 0, , 1-9.	4.7	2
82	An integrated model to predict the microstructure evolution and the mechanical behaviour of a two-phases pseudo-elastic SMA. <i>Procedia Structural Integrity</i> , 2020, 28, 2283-2290.	0.8	2
83	Failure criteria for real-time assessment of ductile cast irons subjected to various loading conditions. <i>Smart Materials and Structures</i> , 2021, 30, 017001.	3.5	2
84	Ductile Irons: Ferritic-Pearlitic. , 2016, , 1126-1131.		1
85	Intergranular corrosion susceptibility analysis in austeno-ferritic (duplex) stainless steels. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2018, 41, 739-748.	3.4	1
86	Chemical composition and heat treatment influence on duplex stainless steels fatigue crack propagation resistance. <i>Strength, Fracture and Complexity</i> , 2018, 11, 253-263.	0.3	1
87	Microstrain measurements and damage analysis during tensile loading of intercritical austempered ductile iron. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2020, 43, 2744-2755.	3.4	1
88	Standards for shape memory alloy applications. , 2021, , 77-111.		1
89	Cycling model for a NiTi Shape Memory Alloy. <i>Procedia Structural Integrity</i> , 2021, 33, 1035-1041.	0.8	1
90	Hybrid structures in Titanium-Lattice/FRP: effect of skins material on bending characteristics. <i>Procedia Structural Integrity</i> , 2022, 41, 3-8.	0.8	1

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91	Crack micromechanisms in cycled shape memory alloys. Procedia Structural Integrity, 2022, 41, 692-698.	0.8	1
92	Improved Zn-based coatings for ipersandelin steel products. Procedia Structural Integrity, 2016, 2, 2263-2268.	0.8	0
93	Special Issue on "Modern Imaging Techniques in Fracture and Damage Analyses": Selected papers from the 21st European Conference of Fracture (ECF 21), held in Catania, Sicily, Italy, on 20-24 June 2016. Engineering Fracture Mechanics, 2017, 183, iii-iv.	4.3	0
94	Grain size influence on fatigue behaviour in a CuZnAl PE SMA. Procedia Structural Integrity, 2018, 13, 204-209.	0.8	0
95	Degenerated graphite nodules influence on fatigue crack paths in a ferritic ductile cast iron. Frattura Ed Integrita Strutturale, 2016, , .	0.9	0
96	Fatigue crack micromechanisms in a Cu-Zn-Al shape memory alloy with pseudo-elastic behavior. Frattura Ed Integrita Strutturale, 2016, , .	0.9	0
97	CFRP/aluminium fibre metal laminates: numerical model for mechanical properties simulation. Procedia Structural Integrity, 2021, 33, 824-831.	0.8	0
98	Numerical Modelling of Fibre Metal Laminate Flexural Behaviour. Material Design and Processing Communications, 2022, 2022, 1-8.	0.9	0
99	Analysis of fracture characteristics in aluminium-CFRP hybrid laminate subject to three-point bending loading. Procedia Structural Integrity, 2022, 39, 173-178.	0.8	0
100	Combination of discrete and finite element method to simulate damage in galvanised steel. Procedia Structural Integrity, 2022, 41, 254-259.	0.8	0