

# Virginia Infante

## List of Publications by Year in descending order

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99  
papers

1,267  
citations

394421

19  
h-index

477307

29  
g-index

99  
all docs

99  
docs citations

99  
times ranked

1037  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fatigue life assessment of friction spot welded 7050-T76 aluminium alloy using Weibull distribution. International Journal of Fatigue, 2016, 87, 381-390.	5.7	63
2	Study of the fatigue behaviour of dissimilar aluminium joints produced by friction stir welding. International Journal of Fatigue, 2016, 82, 310-316.	5.7	56
3	Using SEM techniques for failure analysis of critical aeroengine components. Microscopy and Microanalysis, 2009, 15, 71-72.	0.4	55
4	Detection of multiple low-energy impact damage in composite plates using Lamb wave techniques. Composites Part B: Engineering, 2015, 80, 291-298.	12.0	51
5	Fatigue behaviour of welded joints with cracks, repaired by hammer peening. Fatigue and Fracture of Engineering Materials and Structures, 2004, 27, 785-798.	3.4	38
6	Study of the fatigue behavior in welded joints of stainless steels treated by weld toe grinding and subjected to salt water corrosion. International Journal of Fatigue, 2008, 30, 453-462.	5.7	35
7	Assessment of improvement techniques effect on fatigue behaviour of friction stir welded aerospace aluminium alloys. Procedia Engineering, 2010, 2, 1605-1616.	1.2	35
8	Failure mode analysis of two crankshafts of a single cylinder diesel engine. Engineering Failure Analysis, 2015, 56, 185-193.	4.0	34
9	Aluminium Friction-stir Weld-bonded Joints. Journal of Adhesion, 2016, 92, 665-678.	3.0	33
10	Optimization of FS Welding Parameters for Improving Mechanical Behavior of AA2024-T351 Joints Based on Taguchi Method. Journal of Materials Engineering and Performance, 2013, 22, 2261-2270.	2.5	32
11	Failure of a crankshaft of an aeroengine: A contribution for an accident investigation. Engineering Failure Analysis, 2013, 35, 286-293.	4.0	32
12	Failures analysis of compressor blades of aeroengines due to service. Engineering Failure Analysis, 2009, 16, 1118-1125.	4.0	27
13	Failure mode analysis of a diesel motor crankshaft. Engineering Failure Analysis, 2017, 82, 681-686.	4.0	26
14	Fatigue performance of tungsten inert gas (TIG) and plasma welds in thin sections. International Journal of Fatigue, 1999, 21, 587-601.	5.7	25
15	Fatigue performance of hybrid overlap friction stir welding and adhesive bonding of an Al-Mg-Cu alloy. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 1262-1270.	3.4	24
16	The optimization of process parameters for friction spot welded 7050-T76 aluminium alloy using a Taguchi orthogonal array. International Journal of Advanced Manufacturing Technology, 2017, 91, 3683-3695.	3.0	23
17	Failure analysis of landing gears trunnions due to service. Engineering Failure Analysis, 2014, 41, 118-123.	4.0	22
18	Fatigue behavior and microstructural characterization of a high strength steel for welded railway rails. International Journal of Fatigue, 2018, 117, 1-8.	5.7	22

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19	An overview on how failure analysis contributes to flight safety in the Portuguese Air Force. <i>Engineering Failure Analysis</i> , 2016, 65, 86-101.	4.0	21
20	Fatigue behavior of MAG welds of thermo-mechanically processed 700MC ultra high strength steel. <i>International Journal of Fatigue</i> , 2019, 126, 62-71.	5.7	21
21	Failure analysis of cylinder head studs of a four stroke marine diesel engine. <i>Engineering Failure Analysis</i> , 2019, 101, 298-308.	4.0	21
22	Fully Dynamic Numerical Simulation of the Hammer Peening Fatigue Life Improvement Technique. <i>Procedia Engineering</i> , 2011, 10, 1943-1948.	1.2	20
23	Failure mode analysis of two diesel engine crankshafts. <i>Procedia Structural Integrity</i> , 2016, 1, 313-318.	0.8	19
24	Failure analysis of a nose landing gear fork. <i>Engineering Failure Analysis</i> , 2017, 82, 554-565.	4.0	19
25	A failure study of housing of the gearboxes of series 2600 locomotives of the Portuguese Railway Company. <i>Engineering Failure Analysis</i> , 2008, 15, 154-164.	4.0	18
26	Fatigue Behaviour of Friction Stir Welded Steel Joints. <i>Advanced Materials Research</i> , 0, 891-892, 1488-1493.	0.3	17
27	Design and development of the ITER CTS diagnostic. <i>EPJ Web of Conferences</i> , 2019, 203, 03002.	0.3	17
28	Failure analysis of the nose landing gear axle of an aircraft. <i>Engineering Failure Analysis</i> , 2019, 101, 113-120.	4.0	17
29	Fatigue assessment of friction stir channels. <i>International Journal of Fatigue</i> , 2014, 62, 77-84.	5.7	16
30	Fatigue behaviour at elevated temperature of friction stir channelling solid plates of AA5083-H111 aluminium alloy. <i>International Journal of Fatigue</i> , 2014, 62, 85-92.	5.7	16
31	Thermo-mechanical modeling of a high pressure turbine blade of an airplane gas turbine engine. <i>Procedia Structural Integrity</i> , 2016, 1, 189-196.	0.8	16
32	Case studies of computational simulations of fatigue crack propagation using finite elements analysis tools. <i>Engineering Failure Analysis</i> , 2011, 18, 616-624.	4.0	15
33	Optimization of fibers orientation in a composite specimen. <i>Mechanics of Advanced Materials and Structures</i> , 2017, 24, 410-416.	2.6	15
34	Failure analysis of a crankshaft of a helicopter engine. <i>Engineering Failure Analysis</i> , 2019, 100, 49-59.	4.0	15
35	Experimental and numerical characterization of 3D-printed scaffolds under monotonic compression with the aid of micro-CT volume reconstruction. <i>Bio-Design and Manufacturing</i> , 2021, 4, 222-242.	7.7	14
36	A failure analysis study of wet liners in maritime diesel engines. <i>Engineering Failure Analysis</i> , 2002, 9, 403-421.	4.0	13

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37	A failure analysis study of cast steel railway couplings used for coal transportation. <i>Engineering Failure Analysis</i> , 2003, 10, 475-489.	4.0	12
38	A fracture mechanics analysis on the fatigue behaviour of cruciform joints of duplex stainless steel. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2003, 26, 791-810.	3.4	12
39	Fatigue analysis of railway coupling joint. <i>Engineering Failure Analysis</i> , 2007, 14, 1175-1184.	4.0	11
40	Fatigue Behavior of Friction Stir-Welded Joints Repaired by Grinding. <i>Journal of Materials Engineering and Performance</i> , 2014, 23, 1340-1349.	2.5	11
41	Characterisation of fatigue fracture surfaces of friction stir channelling specimens tested at different temperatures. <i>Engineering Failure Analysis</i> , 2015, 56, 204-215.	4.0	11
42	Effect of severe operation conditions on the degradation state of radiant coils in pyrolysis furnaces. <i>Engineering Failure Analysis</i> , 2015, 56, 194-203.	4.0	11
43	Fatigue life time prediction of PoAF Epsilon TB-30 aircraft " Implementation of automatic crack growth based on 3D finite element method. <i>Engineering Failure Analysis</i> , 2013, 33, 17-28.	4.0	10
44	Friction stir weld-bonding defect inspection using phased array ultrasonic testing. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 93, 3125-3134.	3.0	10
45	Metallographic and morphological characterization of sub-surface friction stirred channels produced on AA5083-H111. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 105, 2215-2235.	3.0	10
46	Characterization and optimization of hybrid carbon-glass epoxy composites under combined loading. <i>Journal of Composite Materials</i> , 2019, 53, 2593-2605.	2.4	10
47	Fatigue Behaviour of Aluminium Lap Joints Produced by Laser Beam and Friction Stir Welding. <i>Procedia Engineering</i> , 2014, 74, 293-296.	1.2	9
48	Numerical and experimental study of aircraft structural health. <i>International Journal of Fatigue</i> , 2020, 132, 105348.	5.7	9
49	Monitoring of the mechanical load and thermal history during friction stir channelling under constant position and constant force control modes. <i>Journal of Manufacturing Processes</i> , 2020, 49, 323-334.	5.9	9
50	Fatigue properties of combined friction stir and adhesively bonded AA6082-T6 overlap joints. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2020, 43, 2169-2180.	3.4	9
51	Review on dissimilar structures joints failure. <i>Engineering Failure Analysis</i> , 2021, 129, 105652.	4.0	9
52	Mechanical Characterization of Friction Stir Channels under Internal Pressure and In-Plane Bending. <i>Key Engineering Materials</i> , 0, 488-489, 105-108.	0.4	8
53	Metallographic Characterization of Friction Stir Channels. <i>Materials Science Forum</i> , 2012, 730-732, 817-822.	0.3	8
54	Effect of Microstructure on the Fatigue Behavior of a Friction Stirred Channel Aluminium Alloy. <i>Procedia Engineering</i> , 2013, 66, 264-273.	1.2	8

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55	Aluminum Friction Stir Weldbonding. Procedia Engineering, 2015, 114, 223-231.	1.2	8
56	Using a standard specimen for crack propagation under plain strain conditions. International Journal of Structural Integrity, 2010, 1, 332-343.	3.3	7
57	RAMI analysis of the ITER LFS CTS system. Fusion Engineering and Design, 2017, 123, 663-668.	1.9	7
58	Design and failure modes of a standard railway catenary cantilever support. Engineering Failure Analysis, 2020, 107, 104217.	4.0	7
59	Algorithm for automatic fatigue crack growth simulation on welded high strength steels. Frattura Ed Integrita Strutturale, 2019, 13, 257-268.	0.9	7
60	Development of hybrid friction stir welding and adhesive bonding single lap joints in aluminium alloys. Frattura Ed Integrita Strutturale, 2019, 13, 269-285.	0.9	7
61	Finite Element Model Development Applied to Portuguese Granites for Contact Analysis of Two Dowel Fixing Conditions Used in Cladding. Key Engineering Materials, 0, 548, 255-266.	0.4	6
62	Train passenger car floor panel testing using digital image correlation and strain gauges and comparison with finite element modelling. Engineering Failure Analysis, 2016, 69, 108-121.	4.0	6
63	Micro-crack propagation on a biomimetic bone like composite material studied with the extended finite element method. Procedia Structural Integrity, 2016, 1, 18-25.	0.8	6
64	Maritime and Other Key Transport Issues for the Future " Education and Training in the Context of Lifelong Learning. Transactions on Maritime Science, 2019, 8, 84-98.	0.6	6
65	Failure analysis of compressor blades of a helicopter engine. Engineering Failure Analysis, 2019, 104, 67-74.	4.0	6
66	Flexural fatigue behaviour of an asymmetric sandwich composite made of limestone and cork agglomerate. International Journal of Fatigue, 2020, 130, 105264.	5.7	6
67	Experimental and numerical investigation on the fatigue behaviour of friction stirred channel plates. Engineering Failure Analysis, 2019, 103, 57-69.	4.0	5
68	Self-sensing FS Weld-bonded joints for structural monitoring. Procedia Structural Integrity, 2020, 25, 234-245.	0.8	5
69	Role of Friction Stir Channel Geometry on the Fatigue Behaviour of AA5083-H111 at 120°C and 200°C. Advanced Materials Research, 0, 891-892, 1494-1499.	0.3	4
70	Tool and welding design. , 2014, , 199-240.		4
71	Fatigue Performance of Friction Stir Weld-Bonded Al-Mg joints. Procedia Structural Integrity, 2019, 17, 949-956.	0.8	4
72	Numerical study of the Epsilon TB30 aircraft frame. Engineering Failure Analysis, 2020, 117, 104966.	4.0	4

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73	The effect of prior adhesive bonding on the corrosion behavior of AA2024 FSWed single lap joints. <i>Mechanics of Materials</i> , 2021, , 104122.	3.2	4
74	Experimental Adhesive Failure Criteria for Analysis of Aerospace Structures. <i>Procedia Engineering</i> , 2015, 114, 416-421.	1.2	3
75	Friction Stir Welding of Shipbuilding Steel with Primer. <i>Soldagem E Inspecao</i> , 2016, 21, 16-29.	0.6	3
76	Local Response of Sialoliths to Lithotripsy: Cues on Fragmentation Outcome. <i>Microscopy and Microanalysis</i> , 2017, 23, 584-598.	0.4	3
77	Experimental-numerical correlation of the dynamic behavior of the Portuguese guitar. <i>Applied Acoustics</i> , 2018, 131, 51-60.	3.3	3
78	Prediction of the fatigue lifetime of the Portuguese Air Force Epsilon TB-30 aircraft. <i>Engineering Failure Analysis</i> , 2020, 116, 104764.	4.0	3
79	Modelling Microstructural Effects on the Mechanical Behaviour of a Friction Stirred Channel Aluminium Alloy. <i>Key Engineering Materials</i> , 0, 577-578, 37-40.	0.4	2
80	The effect of welding direction in the fatigue life of aluminium FS welded lap joints. <i>International Journal of Structural Integrity</i> , 2015, 6, 775-786.	3.3	2
81	Mechanical characterization and experimental performance of an aerospace adhesive. <i>Engineering Failure Analysis</i> , 2016, 69, 43-56.	4.0	2
82	Numerical Simulation of the Fatigue Behaviour of a Friction Stirred Channel Aluminium Alloy. <i>MATEC Web of Conferences</i> , 2018, 165, 21008.	0.2	2
83	SHM TB30, Numerical Study of an Aircraft Structural Condition. <i>Procedia Structural Integrity</i> , 2019, 17, 878-885.	0.8	2
84	Development and validation of failure preventive tools for aeronautical applications. <i>Engineering Failure Analysis</i> , 2019, 101, 329-341.	4.0	2
85	The Role of Digital Libraries in Teaching Materials Science and Engineering. <i>Advances in Chemical and Materials Engineering Book Series</i> , 2015, , 190-210.	0.3	2
86	Optimization of a cruciform specimen for fatigue crack growth under in and out-of-phase in-plane biaxial loading conditions. <i>Mechanics of Advanced Materials and Structures</i> , 2023, 30, 1649-1666.	2.6	2
87	Determination of the loading types responsible for the deformed shape of an aircraft cockpit. <i>Engineering Failure Analysis</i> , 2010, 17, 1008-1016.	4.0	1
88	Influence of Milling and Abrasive Waterjet Cutting on the Fatigue Behaviour of DP600 Steel Sheet. <i>Advanced Materials Research</i> , 0, 891-892, 1761-1766.	0.3	1
89	Application of microscopy techniques for forensic analysis of a failed aircraft crankshaft. <i>Microscopy and Microanalysis</i> , 2015, 21, 102-103.	0.4	1
90	A case study in the application of failure analysis techniques to Antarctic Systems: EDEN ISS. , 2016, , .		1

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91	XV Portuguese Conference on Fracture (XV PCF). Theoretical and Applied Fracture Mechanics, 2016, 85, 1.	4.7	1
92	Fatigue crack propagation direction under different loading conditions using MTS and MSS criteria. Procedia Structural Integrity, 2022, 37, 57-64.	0.8	1
93	Failure analysis of a parabolic spring belonging to a railway wagon. Engineering Failure Analysis, 2022, 140, 106526.	4.0	1
94	A Fatigue Study of C-130 Aircraft Skin Using the Stop Drill Technique. Materials Science Forum, 0, 730-732, 685-690.	0.3	0
95	The Sixth International Conference on Engineering Failure Analysis. Engineering Failure Analysis, 2015, 56, 1.	4.0	0
96	The Sixth International Conference on Engineering Failure Analysis - Part 2. Engineering Failure Analysis, 2016, 61, 1.	4.0	0
97	An algorithm for fatigue crack growth applied to mixed and biaxial mode loadings. Procedia Structural Integrity, 2019, 17, 547-554.	0.8	0
98	The Role of Digital Libraries in Teaching Materials Science and Engineering. , 2017, , 1420-1441.		0
99	RCM 3 Methodology Application to Armored Military Vehicle Cooling System. U Porto Journal of Engineering, 2021, 7, 46-60.	0.4	0