

T Palin-Luc

List of Publications by Year in descending order

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76
papers

1,438
citations

279798

23
h-index

345221

36
g-index

84
all docs

84
docs citations

84
times ranked

828
citing authors

#	ARTICLE	IF	CITATIONS
1	Fatigue crack initiation and growth on a steel in the very high cycle regime with sea water corrosion. <i>Engineering Fracture Mechanics</i> , 2010, 77, 1953-1962.	4.3	94
2	Very high cycle fatigue of a high strength steel under sea water corrosion: A strong corrosion and mechanical damage coupling. <i>International Journal of Fatigue</i> , 2015, 74, 156-165.	5.7	86
3	A volumetric energy based high cycle multiaxial fatigue criterion. <i>International Journal of Fatigue</i> , 2003, 25, 755-769.	5.7	85
4	An energy based criterion for high cycle multiaxial fatigue. <i>European Journal of Mechanics, A/Solids</i> , 1998, 17, 237-251.	3.7	72
5	Residual stresses in surface induction hardening of steels: Comparison between experiment and simulation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 487, 328-339.	5.6	63
6	Fatigue crack initiation and growth in a 35CrMo4 steel investigated by infrared thermography. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2005, 28, 169-178.	3.4	59
7	Fatigue life under non-Gaussian random loading from various models. <i>International Journal of Fatigue</i> , 2004, 26, 349-363.	5.7	54
8	A review about the effects of structural and operational factors on the gigacycle fatigue of steels. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2018, 41, 969-990.	3.4	52
9	Estimation of the fatigue strength distribution in high-cycle multiaxial fatigue taking into account the stress-strain gradient effect. <i>International Journal of Fatigue</i> , 2006, 28, 474-484.	5.7	49
10	Effect of corrosion on the high cycle fatigue strength of martensitic stainless steel X12CrNiMoV12-3. <i>International Journal of Fatigue</i> , 2013, 47, 330-339.	5.7	45
11	A non-local theory applied to high cycle multiaxial fatigue. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2002, 25, 649-665.	3.4	44
12	Theoretical analysis, infrared and structural investigations of energy dissipation in metals under cyclic loading. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007, 462, 367-369.	5.6	42
13	Micro-mechanical modelling of high cycle fatigue behaviour of metals under multiaxial loads. <i>Mechanics of Materials</i> , 2012, 55, 112-129.	3.2	39
14	A new piezoelectric fatigue testing machine in pure torsion for ultrasonic gigacycle fatigue tests: application to forged and extruded titanium alloys. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2015, 38, 1294-1304.	3.4	39
15	Crack initiation in VHCF regime on forged titanium alloy under tensile and torsion loading modes. <i>International Journal of Fatigue</i> , 2016, 93, 318-325.	5.7	37
16	Modelling of corrosion fatigue crack initiation on martensitic stainless steel in high cycle fatigue regime. <i>Corrosion Science</i> , 2018, 133, 397-405.	6.6	36
17	Progress in fatigue life calculation by implementing life-dependent material parameters in multiaxial fatigue criteria. <i>International Journal of Fatigue</i> , 2020, 134, 105509.	5.7	34
18	Non-local energy based fatigue life calculation method under multiaxial variable amplitude loadings. <i>International Journal of Fatigue</i> , 2013, 54, 68-83.	5.7	29

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19	EXPERIMENTAL INVESTIGATION ON THE SIGNIFICANCE OF THE CONVENTIONAL ENDURANCE LIMIT OF A SPHEROIDAL GRAPHITE CAST IRON. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 1998, 21, 191-200.	3.4	28
20	Elastic-plastic transition in iron: Structural and thermodynamic features. <i>Technical Physics</i> , 2009, 54, 1141-1146.	0.7	28
21	Comparative study and link between mesoscopic and energetic approaches in high cycle multiaxial fatigue. <i>International Journal of Fatigue</i> , 2001, 23, 317-327.	5.7	26
22	In situ synchrotron ultrasonic fatigue testing device for 3D characterisation of internal crack initiation and growth. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2020, 43, 558-567.	3.4	26
23	About the effect of plastic dissipation in heat at the crack tip on the stress intensity factor under cyclic loading. <i>International Journal of Fatigue</i> , 2014, 58, 56-65.	5.7	23
24	The mechanism of internal fatigue-crack initiation and early growth in a titanium alloy with lamellar and equiaxed microstructure. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 798, 140110.	5.6	23
25	Simulation of multiaxial fatigue strength of steel component treated by surface induction hardening and comparison with experimental results. <i>International Journal of Fatigue</i> , 2011, 33, 1040-1047.	5.7	21
26	Statistical assessment of multiaxial HCF criteria at the grain scale. <i>International Journal of Fatigue</i> , 2014, 67, 151-158.	5.7	21
27	Non-local high cycle fatigue strength criterion for metallic materials with corrosion defects. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2015, 38, 1017-1025.	3.4	21
28	Scaling invariance of fatigue crack growth in gigacycle loading regime. <i>Technical Physics Letters</i> , 2010, 36, 1061-1063.	0.7	20
29	Experimental study of the impact of punching operations on the high cycle fatigue strength of Fe-Si thin sheets. <i>International Journal of Fatigue</i> , 2016, 82, 721-729.	5.7	19
30	Thermal effect of plastic dissipation at the crack tip on the stress intensity factor under cyclic loading. <i>Engineering Fracture Mechanics</i> , 2011, 78, 961-972.	4.3	16
31	Comparison of crack paths in a forged and extruded aeronautical titanium alloy loaded in torsion in the gigacycle fatigue regime. <i>Engineering Fracture Mechanics</i> , 2016, 167, 259-272.	4.3	15
32	Isothermal fatigue damage mechanisms at ambient and elevated temperature of a cast Al-Si-Cu aluminium alloy. <i>International Journal of Fatigue</i> , 2019, 121, 112-123.	5.7	15
33	Gigacycle fatigue behavior of a cast aluminum alloy under biaxial bending: experiments with a new piezoelectric fatigue testing device. <i>Procedia Structural Integrity</i> , 2016, 2, 1173-1180.	0.8	14
34	Fatigue failure probability estimation of the 7075-T651 aluminum alloy under multiaxial loading based on the life-dependent material parameters concept. <i>International Journal of Fatigue</i> , 2021, 147, 106174.	5.7	14
35	Experimental and theoretical study of multiscale damage-failure transition in very high cycle fatigue. <i>Physical Mesomechanics</i> , 2017, 20, 78-89.	1.9	12
36	Fatigue crack initiation and growth on an extruded titanium alloy in gigacycle regime: comparison between tension and torsion loadings. <i>Procedia Structural Integrity</i> , 2016, 2, 1125-1132.	0.8	10

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37	A method to determine composite material residual tensile strength in the fibre direction as a function of the matrix damage state after fatigue loading. <i>Composites Part B: Engineering</i> , 2017, 127, 15-25.	12.0	9
38	ELASTOMER AND RESIN REPLICAS FOR SEM OBSERVATION OF METALLIC MATERIALS. <i>Experimental Techniques</i> , 2002, 26, 33-37.	1.5	7
39	Gigacycle fatigue: non-local and scaling aspects of damage localization, crack initiation and propagation. <i>Procedia Structural Integrity</i> , 2016, 2, 1143-1148.	0.8	7
40	High cycle fatigue strength assessment methodology considering punching effects. <i>Procedia Engineering</i> , 2018, 213, 691-698.	1.2	7
41	Effect of temperature on damage mechanisms and mechanical behaviour of an acrylic-thermoplastic-matrix and glass-fibre-reinforced composite. <i>Journal of Composite Materials</i> , 2020, 54, 4269-4282.	2.4	7
42	How to reduce the duration of multiaxial fatigue tests under proportional service loadings. <i>International Journal of Fatigue</i> , 2006, 28, 554-563.	5.7	6
43	Experimental investigations of anomalous energy absorption in nanocrystalline titanium under cyclic loading conditions. <i>Technical Physics Letters</i> , 2008, 34, 557-560.	0.7	6
44	Crack path in aeronautical titanium alloy under ultrasonic torsion loading. <i>Frattura Ed Integrita Strutturale</i> , 2016, 10, 213-222.	0.9	6
45	Characterization and Simulation of the Effect of Punching on the High Cycle Fatigue Strength of Thin Electric Steel Sheets. <i>Procedia Engineering</i> , 2015, 133, 556-561.	1.2	5
46	Study of the contribution of different effects induced by the punching process on the high cycle fatigue strength of the M330-35A electrical steel. <i>Procedia Structural Integrity</i> , 2016, 2, 3256-3263.	0.8	5
47	Toward composite wind turbine blade fatigue life assessment using ply scale damage model. <i>Procedia Engineering</i> , 2018, 213, 173-182.	1.2	5
48	The gigacycle fatigue strength of steels: a review of structural and operating factors. <i>Procedia Structural Integrity</i> , 2018, 13, 1545-1553.	0.8	5
49	About the heat sources generated during fatigue crack growth: What consequences on the stress intensity factor?. <i>Theoretical and Applied Fracture Mechanics</i> , 2020, 109, 102704.	4.7	5
50	Ply scale modelling of the quasi-static and fatigue behaviours of an acrylic-thermoplastic-matrix and glass-fibre-reinforced laminated composite covering the service temperature range of wind turbine blades. <i>International Journal of Fatigue</i> , 2021, 152, 106413.	5.7	5
51	A new ultrasonic fatigue testing device for biaxial bending in the gigacycle regime. <i>International Journal of Fatigue</i> , 2017, 100, 619-626.	5.7	4
52	Very High Cycle Fatigue Analysis of High Strength Steel with Corrosion Pitting. <i>Key Engineering Materials</i> , 0, 449, 104-113.	0.4	3
53	Microstructure-based study of the crack initiation mechanisms in pure copper under high cycle multiaxial fatigue loading conditions. <i>Procedia Structural Integrity</i> , 2016, 2, 3210-3217.	0.8	3
54	Optimisation of an ultrasonic torsion fatigue system for high strength materials. <i>International Journal of Fatigue</i> , 2021, 151, 106395.	5.7	3

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55	High Cycle Multiaxial Fatigue Energy Criterion Taking Into Account The Volume Distribution of Stresses. European Structural Integrity Society, 1999, 25, 115-129.	0.1	2
56	A flexible modelling framework leading to a probabilistic multiaxial Kitagawa-Takahashi diagram: Applied to cast Al-Si alloys. MATEC Web of Conferences, 2014, 12, 02002.	0.2	2
57	High-Cycle Fatigue Behaviour of Pure Tantalum under Multiaxial and Variable Amplitude Loadings. Advanced Materials Research, 0, 891-892, 1341-1346.	0.3	2
58	Effect of Static and Intermittent Shear Stress on the Fatigue Strength of Notched Components under Combined Rotating Bending and Torsion. Procedia Engineering, 2015, 133, 107-114.	1.2	2
59	Guest Editorial for VHCF6 Special Topic. Fatigue and Fracture of Engineering Materials and Structures, 2015, 38, 1265-1265.	3.4	2
60	Effect of mean shear stress on the fatigue strength of notched components under multiaxial stress state. Procedia Engineering, 2018, 213, 25-35.	1.2	2
61	Fatigue Crack Initiation and Propagation. , 2019, , 65-90.		2
62	Very High Cycle Fatigue of D16T Aluminum Alloy. Physical Mesomechanics, 2021, 24, 77-84.	1.9	2
63	The behavior of statically-indeterminate structural members and frames with cracks present. Engineering Fracture Mechanics, 2009, 76, 1920-1929.	4.3	1
64	Non-local high cycle fatigue criterion for metallic materials with corrosion defects. MATEC Web of Conferences, 2014, 12, 10007.	0.2	1
65	Influence of defects on the very high cycle fatigue behaviour of forged aeronautic titanium alloy. MATEC Web of Conferences, 2014, 12, 10004.	0.2	1
66	Critical plane concept and energy approach in multiaxial fatigue. Materialpruefung/Materials Testing, 2005, 47, 278-286.	2.2	1
67	Effects of LCF Loadings on the HCF Life of Notched Specimens in Ferritic-Bainitic Steel*. Materialpruefung/Materials Testing, 2009, 51, 814-818.	2.2	1
68	Ultrasonic fatigue testing device under biaxial bending. Frattura Ed Integrita Strutturale, 2016, 10, 46-51.	0.9	1
69	Simulation of the Stress-Strain Gradient Effect to Design Safe Components Against Multiaxial Fatigue*. Materialpruefung/Materials Testing, 2007, 49, 370-377.	2.2	1
70	Very high cycle fatigue strength and crack growth of thin steel sheets. Frattura Ed Integrita Strutturale, 2016, 10, 112-118.	0.9	1
71	High Cycle Fatigue Strength of Punched Thin Fe-Si Steel Sheets. Materials Performance and Characterization, 2016, 5, 305-318.	0.3	1
72	Étude numérique du comportement en fatigue à grand nombre de cycles de alliages polycristallins de cuivre. Mecanique Et Industries, 2011, 12, 209-214.	0.2	0

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73	Overload effects on a ferritic-bainitic steel and a cast aluminium alloy: two very different behaviours. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2011, 42, 845-854.	0.9	0
74	Scaling laser shock peening process towards high repetition rates: a demonstration on industrial grade Al2024-T351. , 2020, , .		0
75	Editorial: Renewal of FFEMS Editorial Board. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2022, 45, 331-331.	3.4	0
76	Fatigue Life of a SG Cast Iron under Real Loading Spectra: Effect of the Correlation Factor Between Bending and Torsion. , 2005, , 567-579.		0