T Palin-Luc

List of Publications by Year
in descending order

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	Editorial: Renewal of FFEMS Editorial Board. Fatigue and Fracture of Engineering Materials and Structures, 2022, 45, 331-331.	3.4	0
2	Fatigue failure probability estimation of the 7075-T651 aluminum alloy under multiaxial loading based on the life-dependent material parameters concept. International Journal of Fatigue, 2021, 147, 106174.	5.7	14
3	Optimisation of an ultrasonic torsion fatigue system for high strength materials. International Journal of Fatigue, 2021, 151, 106395.	5.7	3
4	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. International Journal of Fatigue, 2021, 152, 106413.	5.7	5
5	Very High Cycle Fatigue of D16T Aluminum Alloy. Physical Mesomechanics, 2021, 24, 77-84.	1.9	2
6	In situ synchrotron ultrasonic fatigue testing device for 3D characterisation of internal crack initiation and growth. Fatigue and Fracture of Engineering Materials and Structures, 2020, 43, 558-567.	3.4	26
7	About the heat sources generated during fatigue crack growth: What consequences on the stress intensity factor?. Theoretical and Applied Fracture Mechanics, 2020, 109, 102704.	4.7	5
8	The mechanism of internal fatigue-crack initiation and early growth in a titanium alloy with lamellar and equiaxed microstructure. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 798, 140110.	5.6	23
9	Effect of temperature on damage mechanisms and mechanical behaviour of an acrylic-thermoplastic-matrix and glass-fibre-reinforced composite. Journal of Composite Materials, 2020, 54, 4269-4282.	2.4	7
10	Progress in fatigue life calculation by implementing life-dependent material parameters in multiaxial fatigue criteria. International Journal of Fatigue, 2020, 134, 105509.	5.7	34
11	Scaling laser shock peening process towards high repetition rates: a demonstration on industrial grade Al2024-T351. , 2020, , .		0
12	Fatigue Crack Initiation and Propagation. , 2019, , 65-90.		2
13	Isothermal fatigue damage mechanisms at ambient and elevated temperature of a cast Al-Si-Cu aluminium alloy. International Journal of Fatigue, 2019, 121, 112-123.	5.7	15
14	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
15	A review about the effects of structural and operational factors on the gigacycle fatigue of steels. Fatigue and Fracture of Engineering Materials and Structures, 2018, 41, 969-990.	3.4	52
16	Toward composite wind turbine blade fatigue life assessment using ply scale damage model. Procedia Engineering, 2018, 213, 173-182.	1.2	5
17	Modelling of corrosion fatigue crack initiation on martensitic stainless steel in high cycle fatigue regime. Corrosion Science, 2018, 133, 397-405.	6.6	36
18	High cycle fatigue strength assessment methodology considering punching effects. Procedia Engineering, 2018, 213, 691-698.	1.2	7

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19	The gigacycle fatigue strength of steels: a review of structural and operating factors. Procedia Structural Integrity, 2018, 13, 1545-1553.	0.8	5
20	Experimental and theoretical study of multiscale damage-failure transition in very high cycle fatigue. Physical Mesomechanics, 2017, 20, 78-89.	1.9	12
21	A method to determine composite material residual tensile strength in the fibre direction as a function of the matrix damage state after fatigue loading. Composites Part B: Engineering, 2017, 127, 15-25.	12.0	9
22	A new ultrasonic fatigue testing device for biaxial bending in the gigacycle regime. International Journal of Fatigue, 2017, 100, 619-626.	5.7	4
23	Crack initiation in VHCF regime on forged titanium alloy under tensile and torsion loading modes. International Journal of Fatigue, 2016, 93, 318-325.	5.7	37
24	Gigacycle fatigue: non-local and scaling aspects of damage localization, crack initiation and propagation. Procedia Structural Integrity, 2016, 2, 1143-1148.	0.8	7
25	Study of the contribution of different effects induced by the punching process on the high cycle fatigue strength of the M330-35A electrical steel. Procedia Structural Integrity, 2016, 2, 3256-3263.	0.8	5
26	Gigacycle fatigue behavior of a cast aluminum alloy under biaxial bending: experiments with a new piezoelectric fatigue testing device. Procedia Structural Integrity, 2016, 2, 1173-1180.	0.8	14
27	Microstructure-based study of the crack initiation mechanisms in pure copper under high cycle multiaxial fatigue loading conditions. Procedia Structural Integrity, 2016, 2, 3210-3217.	0.8	3
28	Fatigue crack initiation and growth on an extruded titanium alloy in gigacycle regime: comparison between tension and torsion loadings. Procedia Structural Integrity, 2016, 2, 1125-1132.	0.8	10
29	Comparison of crack paths in a forged and extruded aeronautical titanium alloy loaded in torsion in the gigacycle fatigue regime. Engineering Fracture Mechanics, 2016, 167, 259-272.	4.3	15
30	Experimental study of the impact of punching operations on the high cycle fatigue strength of Feâ€“Si thin sheets. International Journal of Fatigue, 2016, 82, 721-729.	5.7	19
31	Crack path in aeronautical titanium alloy under ultrasonic torsion loading. Frattura Ed Integrita Strutturale, 2016, 10, 213-222.	0.9	6
32	Ultrasonic fatigue testing device under biaxial bending. Frattura Ed Integrita Strutturale, 2016, 10, 46-51.	0.9	1
33	Very high cycle fatigue strength and crack growth of thin steel sheets. Frattura Ed Integrita Strutturale, 2016, 10, 112-118.	0.9	1
34	High Cycle Fatigue Strength of Punched Thin Fe-Si Steel Sheets. Materials Performance and Characterization, 2016, 5, 305-318.	0.3	1
35	Characterization and Simulation of the Effect of Punching on the High Cycle Fatigue Strength of Thin Electric Steel Sheets. Procedia Engineering, 2015, 133, 556-561.	1.2	5
36	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

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37	Guest Editorial for VHCF6 Special Topic. Fatigue and Fracture of Engineering Materials and Structures, 2015, 38, 1265-1265.	3.4	2
38	A new piezoelectric fatigue testing machine in pure torsion for ultrasonic gigacycle fatigue tests: application to forged and extruded titanium alloys. Fatigue and Fracture of Engineering Materials and Structures, 2015, 38, 1294-1304.	3.4	39
39	Nonâ€local high cycle fatigue strength criterion for metallic materials with corrosion defects. Fatigue and Fracture of Engineering Materials and Structures, 2015, 38, 1017-1025.	3.4	21
40	Very high cycle fatigue of a high strength steel under sea water corrosion: A strong corrosion and mechanical damage coupling. International Journal of Fatigue, 2015, 74, 156-165.	5.7	86
41	Non-local high cycle fatigue criterion for metallic materials with corrosion defects. MATEC Web of Conferences, 2014, 12, 10007.	0.2	1
42	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
43	About the effect of plastic dissipation in heat at the crack tip on the stress intensity factor under cyclic loading. International Journal of Fatigue, 2014, 58, 56-65.	5.7	23
44	Statistical assessment of multiaxial HCF criteria at the grain scale. International Journal of Fatigue, 2014, 67, 151-158.	5.7	21
45	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
46	Non-local energy based fatigue life calculation method under multiaxial variable amplitude loadings. International Journal of Fatigue, 2013, 54, 68-83.	5.7	29
47	Effect of corrosion on the high cycle fatigue strength of martensitic stainless steel X12CrNiMoV12-3. International Journal of Fatigue, 2013, 47, 330-339.	5.7	45
48	Micro-mechanical modelling of high cycle fatigue behaviour of metals under multiaxial loads. Mechanics of Materials, 2012, 55, 112-129.	3.2	39
49	Ã‰tude numÃ©rique du comportement en fatigue Ã grand nombre de cycles dâ€™agrÃ©gats polycristallins de cuivre. Mecanique Et Industries, 2011, 12, 209-214.	0.2	0
50	Overload effects on a ferriticâ€bainticsteel and a cast aluminium alloy: two very different behaviours. Materialwissenschaft Und Werkstofftechnik, 2011, 42, 845-854.	0.9	0
51	Thermal effect of plastic dissipation at the crack tip on the stress intensity factor under cyclic loading. Engineering Fracture Mechanics, 2011, 78, 961-972.	4.3	16
52	Simulation of multiaxial fatigue strength of steel component treated by surface induction hardening and comparison with experimental results. International Journal of Fatigue, 2011, 33, 1040-1047.	5.7	21
53	Scaling invariance of fatigue crack growth in gigacycle loading regime. Technical Physics Letters, 2010, 36, 1061-1063.	0.7	20
54	Fatigue crack initiation and growth on a steel in the very high cycle regime with sea water corrosion. Engineering Fracture Mechanics, 2010, 77, 1953-1962.	4.3	94

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55	The behavior of statically-indeterminate structural members and frames with cracks present. Engineering Fracture Mechanics, 2009, 76, 1920-1929.	4.3	1
56	Elastic-plastic transition in iron: Structural and thermodynamic features. Technical Physics, 2009, 54, 1141-1146.	0.7	28
57	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
58	Residual stresses in surface induction hardening of steels: Comparison between experiment and simulation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 487, 328-339.	5.6	63
59	Experimental investigations of anomalous energy absorption in nanocrystalline titanium under cyclic loading conditions. Technical Physics Letters, 2008, 34, 557-560.	0.7	6
60	Theoretical analysis, infrared and structural investigations of energy dissipation in metals under cyclic loading. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 462, 367-369.	5.6	42
61	Simulation of the Stress-Strain Gradient Effect to Design Safe Components Against Multiaxial Fatigue*. Materialpruefung/Materials Testing, 2007, 49, 370-377.	2.2	1
62	Estimation of the fatigue strength distribution in high-cycle multiaxial fatigue taking into account the stressâ€“strain gradient effect. International Journal of Fatigue, 2006, 28, 474-484.	5.7	49
63	How to reduce the duration of multiaxial fatigue tests under proportional service loadings. International Journal of Fatigue, 2006, 28, 554-563.	5.7	6
64	Fatigue crack initiation and growth in a 35CrMo4 steel investigated by infrared thermography. Fatigue and Fracture of Engineering Materials and Structures, 2005, 28, 169-178.	3.4	59
65	Critical plane concept and energy approach in multiaxial fatigue. Materialpruefung/Materials Testing, 2005, 47, 278-286.	2.2	1
66	Fatigue Life of a SG Cast Iron under Real Loading Spectra: Effect of the Correlation Factor Between Bending and Torsion. , 2005, , 567-579.		0
67	Fatigue life under non-Gaussian random loading from various models. International Journal of Fatigue, 2004, 26, 349-363.	5.7	54
68	A volumetric energy based high cycle multiaxial fatigue citerion. International Journal of Fatigue, 2003, 25, 755-769.	5.7	85
69	AÂnon-local theory applied to high cycle multiaxial fatigue. Fatigue and Fracture of Engineering Materials and Structures, 2002, 25, 649-665.	3.4	44
70	ELASTOMER AND RESIN REPLICAS FOR SEM OBSERVATION OF METALLIC MATERIALS. Experimental Techniques, 2002, 26, 33-37.	1.5	7
71	Comparative study and link between mesoscopic and energetic approaches in high cycle multiaxial fatigue. International Journal of Fatigue, 2001, 23, 317-327.	5.7	26
72	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

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73	An energy based criterion for high cycle multiaxial fatigue. European Journal of Mechanics, A/Solids, 1998, 17, 237-251.	3.7	72
74	EXPERIMENTAL INVESTIGATION ON THE SIGNIFICANCE OF THE CONVENTIONAL ENDURANCE LIMIT OF A SPHEROIDAL GRAPHITE CAST IRON. Fatigue and Fracture of Engineering Materials and Structures, 1998, 21, 191-200.	3.4	28
75	Very High Cycle Fatigue Analysis of High Strength Steel with Corrosion Pitting. Key Engineering Materials, 0, 449, 104-113.	0.4	3
76	High-Cycle Fatigue Behaviour of Pure Tantalum under Multiaxial and Variable Amplitude Loadings. Advanced Materials Research, 0, 891-892, 1341-1346.	0.3	2