Marcus Klein

List of Publications by Year
in descending order

36 papers	310 citations	1162367 8 h-index	887659 17 g-index
40 all docs	40 docs citations	40 times ranked	271 citing authors

#	Article	IF	Citations
1	An Investigation of the Microstructure and Fatigue Behavior of Additively Manufactured AISI 316L Stainless Steel with Regard to the Influence of Heat Treatment. Metals, 2018, 8, 220.	1.0	79
2	Cyclic hardness test PHYBALCHT â€“ Short-time procedure to evaluate fatigue properties of metallic materials. International Journal of Fatigue, 2014, 63, 78-84.	2.8	50
3	PhyBaLCHT â€“ Influence of indentation force on the results of cyclic hardness tests and investigations of comparability to uniaxial fatigue loading. International Journal of Fatigue, 2019, 119, 78-88.	2.8	26
4	Tailoring the Hardening Behavior of 18CrNiMo7â€6 via Cu Alloying. Steel Research International, 2016, 87, 550-561.	1.0	21
5	Welding Process for the Additive Manufacturing of Cantilevered Components with the WAAM. Advanced Structured Materials, 2020, , 67-78.	0.3	21
6	Temperature dependent cyclic deformation and fatigue life of EN-GJS-600 (ASTM 80-55-06) ductile cast iron. International Journal of Fatigue, 2017, 96, 102-113.	2.8	18
7	Out-of-Phase TMF lifetime calculation of EN-GJS-600 (ASTM 80-55-06) ductile cast iron based on strain increase tests and evaluation of cyclic deformation behavior in isothermal measuring intervals. International Journal of Fatigue, 2018, 117, 274-282.	2.8	9
8	Temperature and frequency influence on the cyclic deformation behavior of EN-GJS-600 (ASTM) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 46	2.8	8
9	On the Influence of Control Type and Strain Rate on the Lifetime of 50CrMo4. Metals, 2020, 10, 1458.	1.0	8
10	Resistivity â€“ a characteristic fingerprint of fatigue induced changes in the microstructure of metallic materials. Procedia Engineering, 2011, 10, 698-703.	1.2	7
11	Fatigue strength of metric steel screws depending on pre-load and nut type. Engineering Failure Analysis, 2020, 112, 104484.	1.8	7
12	On the Influence of Ultimate Number of Cycles on Lifetime Prediction for Compression Springs Manufactured from VDSiCr Class Spring Wire. Materials, 2020, 13, 3222.	1.3	6
13	Fatigue monitoring of metals based on mechanical hysteresis, electromagnetic ultrasonic, electrical resistance and temperature measurements. Mechanical Engineering Journal, 2016, 3, 16-00303-16-00303.	0.2	5
14	Very high cycle fatigue behaviour of compression springs under constant and variable amplitude loading. Materialwissenschaft Und Werkstofftechnik, 2019, 50, 1301-1316.	0.5	5
15	A method for the strain rate dependent correction for control type of fatigue tests. International Journal of Fatigue, 2020, 138, 105726.	2.8	5
16	Robust Determination of Fatigue Crack Propagation Thresholds from Crack Growth Data. Materials, 2022, 15, 4737.	1.3	5
17	Determination of the anisotropic fatigue behaviour of additively manufactured structures with short-time procedure PhyBaLLIT. MATEC Web of Conferences, 2018, 165, 02006.	0.1	4
18	Fatigue properties of bolted joints with cut and formed threads. Materialwissenschaft Und Werkstofftechnik, 2019, 50, 204-224.	0.5	4

#	Article	IF	Citations
19	Influences of the manufacturing process chain design on the near surface condition and the resulting fatigue behaviour of quenched and tempered SAE 4140. Journal of Physics: Conference Series, 2010, 240, 012052.	0.3	3
20	A Novel Algorithm for the Determination of Walker Damage in Loaded Disc Springs. Materials, 2020, 13, 1661.	1.3	3
21	Influences of the manufacturing processes on the surface integrity and the resulting fatigue behavior of quenched and tempered SAE 4140. Procedia Engineering, 2010, 2, 2239-2247.	1.2	2
22	PhyBaLSL â€“ Short-time procedure for the determination of the fatigue lifetime of metallic materials under service loading. International Journal of Fatigue, 2021, 144, 106060.	2.8	2
23	Influence of Lubrication Systems on the Fatigue Strength of Bolted Joints. Applied Sciences (Switzerland), 2022, 12, 2778.	1.3	2
24	A New Method for the Calculation of Characteristics of Disc Springs with Trapezoidal Cross-Sections and Rounded Edges. Materials, 2022, 15, 1954.	1.3	2
25	Influences of the Process Chain on the Fatigue Behavior of Samples with Tension Screw Geometry. Advanced Engineering Materials, 2010, 12, NA-NA.	1.6	1
26	Manufacturing influences on the fatigue properties of quenched and tempered SAE 4140 specimens. Procedia Engineering, 2011, 10, 1184-1189.	1.2	1
27	Innovative Experimental Approaches and Physical Measurement Methods for Fatigue Monitoring and Life Assessment. Materials Science Forum, 2016, 879, 205-210.	0.3	1
28	Analytical approach for the minimum depths of engagement for bolted joints with formed female threads. Materialwissenschaft Und Werkstofftechnik, 2021, 52, 164-176.	0.5	1
29	A fatigue design concept for metal injection molded components of 100Cr6. Materialwissenschaft Und Werkstofftechnik, 2015, 46, 178-189.	0.5	0
30	Cyclic Hardness Test PHYBALCHT: A New Short-Time Procedure to Estimate Fatigue Properties of Metallic Materials. , 2015, , 49-56.		0
31	Life assessment in constant and variable amplitude highâ€temperature fatigue of ductile cast iron and metastable austenitic steel based on in situ measurement of physical properties. Materialwissenschaft Und Werkstofftechnik, 2018, 49, 332-344.	0.5	0
32	Fatigue strength of helical compression springs â€•comparison of calculation methods according to DIN EN 13906â€1â€‰and Forschungskuratorium Maschinenbau (FKM) guideline â€œAnalytical strength assessment of springs and spring elementsâ€• Materialwissenschaft Und Werkstofftechnik, 2021, 52, 211-230.	0.5	0
33	PHYBALCHT: Kurzzeitverfahren zur AbschÃtzung der ErmÃ¼dungseigenschaften metallischer Werkstoffe. HTM - Journal of Heat Treatment and Materials, 2014, 69, 256-264.	0.1	0
34	OS8-1 Fatigue Monitoring of Metals Based on Electrical Resistance, Temperature and Electromagnetic Ultrasonic Measurements(invited,Fatigue monitoring,OS8 Fatigue and fracture mechanics,STRENGTH) Tj ETQq0 0 0 rgBT /Overlock 10 T Experimental Mechanics Asian Conference on Experimental Mechanics, 2015, 2015.14, 111.	0.6	0
35	PhybalSIT â€” Fatigue Assessment and Life Time Calculation of the Ductile Cast Iron EN-GJS-600 at Ambient and Elevated Temperatures. , 2015, , 711-718.		0
36	Cyclic Hardness Test PHYBALCHT: A New Short-Time Procedure to Estimate Fatigue Properties of Metallic Materials. , 2015, , 49-56.		0