

# Marcus Klein

## List of Publications by Citations

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36  
papers

214  
citations

7  
h-index

13  
g-index

40  
ext. papers

270  
ext. citations

2.3  
avg, IF

3.38  
L-index

#	Paper	IF	Citations
36	An Investigation of the Microstructure and Fatigue Behavior of Additively Manufactured AISI 316L Stainless Steel with Regard to the Influence of Heat Treatment. <i>Metals</i> , <b>2018</b> , 8, 220	2.3	49
35	Cyclic hardness test PHYBALCHT – Short-time procedure to evaluate fatigue properties of metallic materials. <i>International Journal of Fatigue</i> , <b>2014</b> , 63, 78-84	5	42
34	PhyBaLCHT – Influence of indentation force on the results of cyclic hardness tests and investigations of comparability to uniaxial fatigue loading. <i>International Journal of Fatigue</i> , <b>2019</b> , 119, 78-88	5	19
33	Temperature dependent cyclic deformation and fatigue life of EN-GJS-600 (ASTM 80-55-06) ductile cast iron. <i>International Journal of Fatigue</i> , <b>2017</b> , 96, 102-113	5	17
32	Tailoring the Hardening Behavior of 18CrNiMo7-6 via Cu Alloying. <i>Steel Research International</i> , <b>2016</b> , 87, 550-561	1.6	17
31	Welding Process for the Additive Manufacturing of Cantilevered Components with the WAAM. <i>Advanced Structured Materials</i> , <b>2020</b> , 67-78	0.6	11
30	Temperature and frequency influence on the cyclic deformation behavior of EN-GJS-600 (ASTM 80-55-06) ductile cast iron at 0.005 and 5 Hz. <i>International Journal of Fatigue</i> , <b>2018</b> , 110, 225-237	5	8
29	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. <i>International Journal of Fatigue</i> , <b>2018</b> , 117, 274-282	5	5
28	Resistivity – characteristic fingerprint of fatigue induced changes in the microstructure of metallic materials. <i>Procedia Engineering</i> , <b>2011</b> , 10, 698-703		5
27	Fatigue strength of metric steel screws depending on pre-load and nut type. <i>Engineering Failure Analysis</i> , <b>2020</b> , 112, 104484	3.2	4
26	Fatigue monitoring of metals based on mechanical hysteresis, electromagnetic ultrasonic, electrical resistance and temperature measurements. <i>Mechanical Engineering Journal</i> , <b>2016</b> , 3, 16-00303-16-00303 <sup>0.5</sup>		4
25	Ermüdungsverhalten von Schraubendruckfedern bei konstanten und variablen Beanspruchungsamplituden bei sehr hohen Schwingungszahlen. <i>Materialwissenschaft Und Werkstofftechnik</i> , <b>2019</b> , 50, 1301-1316	0.9	4
24	On the Influence of Ultimate Number of Cycles on Lifetime Prediction for Compression Springs Manufactured from VDSiCr Class Spring Wire. <i>Materials</i> , <b>2020</b> , 13,	3.5	4
23	Determination of the anisotropic fatigue behaviour of additively manufactured structures with short-time procedure PhyBaLLIT. <i>MATEC Web of Conferences</i> , <b>2018</b> , 165, 02006	0.3	4
22	Influences of the manufacturing process chain design on the near surface condition and the resulting fatigue behaviour of quenched and tempered SAE 4140. <i>Journal of Physics: Conference Series</i> , <b>2010</b> , 240, 012052	0.3	3
21	On the Influence of Control Type and Strain Rate on the Lifetime of 50CrMo4. <i>Metals</i> , <b>2020</b> , 10, 1458	2.3	3
20	3D-Druck im Stahlbau – Additive Fertigung von Details, Verbindungen und Bauteilen. <i>Stahlbau</i> , <b>2020</b> , 89, 981-991	0.6	3

19	Ermüdungseigenschaften von Schraubenverbindungen mit gefurchtem und geschnittenem Gewinde. <i>Materialwissenschaft Und Werkstofftechnik</i> , <b>2019</b> , 50, 204-224	0.9	3
18	Influences of the manufacturing processes on the surface integrity and the resulting fatigue behavior of quenched and tempered SAE 4140. <i>Procedia Engineering</i> , <b>2010</b> , 2, 2239-2247		2
17	A method for the strain rate dependent correction for control type of fatigue tests. <i>International Journal of Fatigue</i> , <b>2020</b> , 138, 105726	5	2
16	Innovative Experimental Approaches and Physical Measurement Methods for Fatigue Monitoring and Life Assessment. <i>Materials Science Forum</i> , <b>2016</b> , 879, 205-210	0.4	1
15	Manufacturing influences on the fatigue properties of quenched and tempered SAE 4140 specimens. <i>Procedia Engineering</i> , <b>2011</b> , 10, 1184-1189		1
14	PhyBaLSL [Short-time procedure for the determination of the fatigue lifetime of metallic materials under service loading. <i>International Journal of Fatigue</i> , <b>2021</b> , 144, 106060	5	1
13	Influence of Lubrication Systems on the Fatigue Strength of Bolted Joints. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 2778	2.6	0
12	A fatigue design concept for metal injection molded components of 100Cr6. <i>Materialwissenschaft Und Werkstofftechnik</i> , <b>2015</b> , 46, 178-189	0.9	
11	Cyclic Hardness Test PHYBALCHT: A New Short-Time Procedure to Estimate Fatigue Properties of Metallic Materials <b>2015</b> , 49-56		
10	PHYBALSIT - Fatigue Assessment and Life Time Calculation of the Ductile Cast Iron EN-GJS-600 at Ambient and Elevated Temperatures <b>2015</b> , 711-718		
9	Ermittlung der Grenzflächenpressung von Bauteilwerkstoffen in Schraubenverbindungen an Ringproben bei erhöhter Temperatur bis 300 °C. <i>Forschung Im Ingenieurwesen/Engineering Research</i> , <b>2020</b> , 84, 379-386	0.8	
8	Life assessment in constant and variable amplitude high-temperature fatigue of ductile cast iron and metastable austenitic steel based on in situ measurement of physical properties. <i>Materialwissenschaft Und Werkstofftechnik</i> , <b>2018</b> , 49, 332-344	0.9	
7	PHYBALCHT: Kurzzeitverfahren zur Abschätzung der Ermüdungseigenschaften metallischer Werkstoffe. <i>HTM - Journal of Heat Treatment and Materials</i> , <b>2014</b> , 69, 256-264	0.7	
6	OS8-1 Fatigue Monitoring of Metals Based on Electrical Resistance, Temperature and Electromagnetic Ultrasonic Measurements(invited,Fatigue monitoring,OS8 Fatigue and fracture mechanics,STRENGTH OF MATERIALS). <i>The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics/Asian Conference on Experimental Mechanics</i> , <b>2015</b> , 2015-14, 111	0	
5	PhybaLSIT [Fatigue Assessment and Life Time Calculation of the Ductile Cast Iron EN-GJS-600 at Ambient and Elevated Temperatures <b>2015</b> , 711-718		
4	Cyclic Hardness Test PHYBALCHT: A New Short-Time Procedure to Estimate Fatigue Properties of Metallic Materials <b>2015</b> , 49-56		
3	Temperaturabhängiges Anzieh- und Löseverhalten von Schraubenverbindungen mit Zinklamellenüberzügen. <i>Forschung Im Ingenieurwesen/Engineering Research</i> , <b>2021</b> , 85, 477-484	0.8	
2	Ermüdungsfestigkeit von Schraubendruckfedern - Vergleich der Berechnung nach DIN EN 13906-1 und der Richtlinie des Forschungskuratoriums Maschinenbau (FKM) Rechnerischer Festigkeitsnachweis für Federn und Federelemente [Materialwissenschaft Und Werkstofftechnik, <b>2021</b> , 52, 211-220	0.9	

- 1 Analytischer Berechnungsansatz zur Mindesteinschraubtiefe von Schraubenverbindungen mit gefurchem Gewinde. *Materialwissenschaft Und Werkstofftechnik*, **2021**, 52, 164-176 0.9