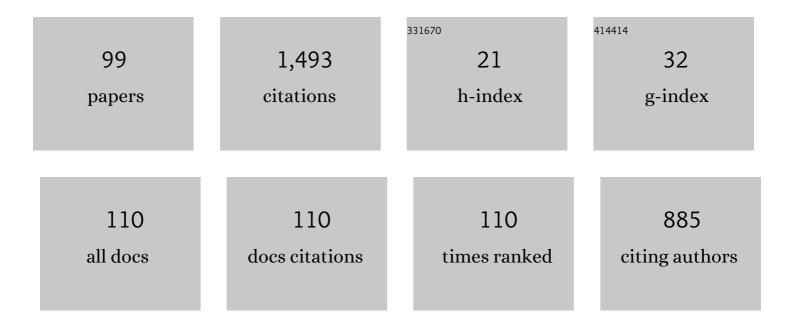
List of Publications by Year in descending order

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Μομλμμλο Δζλοι

#	Article	IF	CITATIONS
1	Thermo-mechanical stress analysis of thermal barrier coating system considering thickness and roughness effects. Surface and Coatings Technology, 2014, 243, 91-99.	4.8	82
2	High-cycle bending fatigue properties of additive-manufactured ABS and PLA polymers fabricated by fused deposition modeling 3D-printing. Forces in Mechanics, 2021, 3, 100016.	2.8	74
3	Heat treatment effect on thermo-mechanical fatigue and low cycle fatigue behaviors of A356.0 aluminum alloy. Materials & Design, 2013, 45, 279-285.	5.1	65
4	Tensile loading rate effect on mechanical properties and failure mechanisms in open-hole carbon fiber reinforced polymer composites by acoustic emission approach. Composites Part B: Engineering, 2019, 158, 448-458.	12.0	60
5	Mechanical behavior of TiN/TiC multilayer coatings fabricated by plasma assisted chemical vapor deposition on AISI H13 hot work tool steel. Surface and Coatings Technology, 2014, 245, 156-166.	4.8	59
6	Evaluation of high-cycle bending fatigue and fracture behaviors in EN-GJS700-2 ductile cast iron of crankshafts. Engineering Failure Analysis, 2018, 85, 189-200.	4.0	50
7	Effects of SiO2 nano-particles on tribological and mechanical properties of aluminum matrix composites by different dispersion methods. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	47
8	Free and forced vibration analysis of FG beam considering temperature dependency of material properties. Journal of Mechanical Science and Technology, 2011, 25, 69-80.	1.5	43
9	Clustering effect on damage mechanisms in open-hole laminated carbon/epoxy composite under constant tensile loading rate, using acoustic emission. Composite Structures, 2018, 204, 1-11.	5.8	41
10	Effects of preheating temperature and cooling rate on two-step residual stress in thermal barrier coatings considering real roughness and porosity effect. Ceramics International, 2014, 40, 15925-15940.	4.8	37
11	Effects of strain rate and mean strain on cyclic behavior of aluminum alloys under isothermal and thermo-mechanical fatigue loadings. International Journal of Fatigue, 2013, 47, 148-153.	5.7	35
12	NVH analysis and improvement of a vehicle body structure using DOE method. Journal of Mechanical Science and Technology, 2009, 23, 2980-2989.	1.5	34
13	Evaluation of high-temperature creep behavior in Inconel-713C nickel-based superalloy considering effects of stress levels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 689, 298-305.	5.6	33
14	A new energyâ€based isothermal and thermoâ€mechanical fatigue lifetime prediction model for aluminium–silicon–magnesium alloy. Fatigue and Fracture of Engineering Materials and Structures, 2013, 36, 1323-1335.	3.4	31
15	Effects of solutioning and ageing treatments on properties of Inconel-713C nickel-based superalloy under creep loading. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 711, 195-204.	5.6	28
16	Evaluation of tensile and low-cycle fatigue properties at elevated temperatures in piston aluminum-silicon alloys with and without nano-clay-particles and heat treatment. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 788, 139497.	5.6	28
17	Fatigue lifetime of AZ91 magnesium alloy subjected to cyclic thermal and mechanical loadings. Materials & Design, 2014, 53, 639-644.	5.1	27
18	Stress analysis of thermal barrier coating system subjected to out-of-phase thermo-mechanical loadings considering roughness and porosity effect. Surface and Coatings Technology, 2015, 262, 77-86.	4.8	25

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19	Temperature and thickness effects on thermal and mechanical stresses of rotating FG-disks. Journal of Mechanical Science and Technology, 2011, 25, 827-836.	1.5	23
20	Damage prediction for un-coated and coated aluminum alloys under thermal and mechanical fatigue loadings based on a modified plastic strain energy approach. Materials & Design, 2015, 66, 587-595.	5.1	23
21	Improvement of high temperature fatigue lifetime in AZ91 magnesium alloy by heat treatment. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 588, 357-365.	5.6	22
22	Nonlinear transient heat transfer and thermoelastic analysis of thick-walled FGM cylinder with temperature-dependent material properties using Hermitian transfinite element. Journal of Mechanical Science and Technology, 2009, 23, 2635-2644.	1.5	20
23	Optimization of Air Plasma Sprayed Thermal Barrier Coating Parameters in Diesel Engine Applications. Journal of Materials Engineering and Performance, 2013, 22, 3530-3538.	2.5	20
24	Effect of plasma nitriding on highâ€cycle fatigue properties and fracture behaviors of GJS700 nodular cast iron under cyclic bending loading. Fatigue and Fracture of Engineering Materials and Structures, 2021, 44, 2070-2086.	3.4	20
25	Topology optimization of additive-manufactured metamaterial structures: A review focused on multi-material types. Forces in Mechanics, 2022, 7, 100100.	2.8	20
26	Effect of rare earth elements on high cycle fatigue behavior of AZ91 alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 587, 179-184.	5.6	18
27	A parametric study on mechanical properties of aluminum–silicon/SiO2 nano-composites by a solid–liquid phase processing. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	18
28	Influence of Heat Treatment on High-Cycle Fatigue and Fracture Behaviors of Piston Aluminum Alloy Under Fully-Reversed Cyclic Bending. Metals and Materials International, 2021, 27, 860-870.	3.4	18
29	Experimental fatigue lifetime of coated and uncoated aluminum alloy under isothermal and thermo-mechanical loadings. Ceramics International, 2013, 39, 9099-9107.	4.8	17
30	Numerical simulations of cyclic behaviors in light alloys under isothermal and thermo-mechanical fatigue loadings. Materials & Design, 2014, 56, 245-253.	5.1	17
31	Cyclic thermo-mechanical stress, strain and continuum damage behaviors in light alloys during fatigue lifetime considering heat treatment effect. International Journal of Fatigue, 2017, 99, 303-314.	5.7	17
32	Evaluating Fatigue-Damage of Asphalt Binder and Mastic Modified with Nano-Silica and Synthesized Polyurethane Using VECD Method. Journal of Materials in Civil Engineering, 2020, 32, .	2.9	17
33	Failure Analysis of a Cracked Gasoline Engine Cylinder Head. Journal of Failure Analysis and Prevention, 2012, 12, 286-294.	0.9	16
34	Stress–strain time-dependent behavior of A356.0 aluminum alloy subjected to cyclic thermal and mechanical loadings. Mechanics of Time-Dependent Materials, 2014, 18, 475-491.	4.4	16
35	Influences of reinforcement and displacement rate on microstructure, mechanical properties and fracture behaviors of cylinder-head aluminum alloy. Materials Chemistry and Physics, 2020, 255, 123441.	4.0	16
36	Bending fatigue behavior of fused filament fabrication 3D-printed ABS and PLA joints with rotary friction welding. Progress in Additive Manufacturing, 2022, 7, 1345-1361.	4.8	16

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37	Nanomechanical Properties of TiN/TiC Multilayer Coatings. Strength of Materials, 2014, 46, 121-131.	0.5	15
38	Characterization of High-Cycle Bending Fatigue Behaviors for Piston Aluminum Matrix SiO2 Nano-composites in Comparison with Aluminum–Silicon Alloys. International Journal of Metalcasting, 2021, 15, 152-168.	1.9	15
39	The Effect of New Double Solution Heat Treatment on the High Manganese Hadfield Steel Properties. Metallography, Microstructure, and Analysis, 2018, 7, 618-626.	1.0	14
40	Influences of roughness and heat treatment on high-cycle bending fatigue properties of A380 aluminum alloy under stress-controlled cyclic loading. Materials Chemistry and Physics, 2021, 264, 124475.	4.0	14
41	Evaluation of fatigue and rutting properties of asphalt binder and mastic modified by synthesized polyurethane. Journal of Traffic and Transportation Engineering (English Edition), 2021, 8, 1036-1048.	4.2	14
42	Nonlinear transient transfinite element thermal analysis ofÂthick-walled FGM cylinders with temperature-dependent material properties. Meccanica, 2010, 45, 305-318.	2.0	13
43	Effects of loading rate on crack growth behavior in carbon fiber reinforced polymer composites using digital image correlation technique. Composites Part B: Engineering, 2019, 175, 107161.	12.0	13
44	Fatigue testing on rotary friction-welded joints between solid ABS and 3D-printed PLA and ABS. European Journal of Mechanics, A/Solids, 2022, 96, 104713.	3.7	13
45	Multidisciplinary optimization of a stiffened shell by genetic algorithm. Journal of Mechanical Science and Technology, 2012, 26, 517-530.	1.5	11
46	Data analysis of high-cycle fatigue testing on piston aluminum-silicon alloys under various conditions: Wear, lubrication, corrosion, nano-particles, heat-treating, and stress. Data in Brief, 2022, 41, 107984.	1.0	11
47	Optimal experiment design for plasma thermal spray parameters at bending loads. International Journal of Surface Science and Engineering, 2012, 6, 3.	0.4	10
48	Crack initiation detection in crankshaft ductile cast iron based on information entropy of acoustic emission signals under tensile loading. Engineering Failure Analysis, 2021, 127, 105547.	4.0	9
49	Detection of Crack Initiation and Propagation in Aluminum Alloy Under Tensile Loading, Comparing Signals Acquired by Acoustic Emission and Vibration Sensors. Journal of Nondestructive Evaluation, 2019, 38, 1.	2.4	8
50	Investigation of tribological and compressive behaviors of Al/SiO2 nanocomposites after T6 heat treatment. Sadhana - Academy Proceedings in Engineering Sciences, 2020, 45, 1.	1.3	8
51	Study of coating effects on the performance of Stirling engine by non-ideal adiabatic thermodynamics modeling. Energy Reports, 2021, 7, 3688-3702.	5.1	8
52	Experimental fatigue dataset for additive-manufactured 3D-printed Polylactic acid biomaterials under fully-reversed rotating-bending bending loadings. Data in Brief, 2022, 41, 107846.	1.0	8
53	Microstructural and thermal properties of piston aluminum alloy reinforced by nano-particles. AIP Conference Proceedings, 2018, , .	0.4	7
54	Characterization of creep damage and lifetime in Inconel-713C nickel-based superalloy by stress-based, strain/strain rate-based and continuum damage mechanics models. Materials Research Express, 2018, 5, 026509.	1.6	7

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55	Sensitivity analysis for effects of displacement amplitude and loading frequency on low-cycle fatigue lifetime in carbon/epoxy laminated composites. MATEC Web of Conferences, 2018, 165, 22021.	0.2	7
56	A Review on Titanium Nitride and Titanium Carbide Single and Multilayer Coatings Deposited by Plasma Assisted Chemical Vapor Deposition. International Journal of Engineering, Transactions B: Applications, 2016, 29, .	0.7	7
57	Effect of Nano-Clay Particles and Heat Treating on Pure and Fretting Fatigue Properties of Piston Aluminum Alloy under Stress-Controlled Cyclic Bending Loading. Journal of Materials Engineering and Performance, 2022, 31, 5927-5942.	2.5	7
58	Mechanical Behavior and Properties of TiN/TiC Coating Using PACVD. Advanced Materials Research, 2013, 829, 476-481.	0.3	6
59	Thermo-mechanical behaviours of light alloys in comparison to high temperature isothermal behaviours. Materials at High Temperatures, 2014, 31, 12-17.	1.0	6
60	Comparison Between Isothermal and Non-Isothermal Fatigue Behavior in a Cast Aluminum-Silicon-Magnesium Alloy. Strength of Materials, 2015, 47, 840-848.	0.5	6
61	Evaluation of high-cycle fatigue behavior in compact bones at different loading frequencies. Meccanica, 2018, 53, 3517-3526.	2.0	6
62	Reliability prediction, scatter-band analysis and fatigue limit assessment of high-cycle fatigue properties in EN-GJS700-2 ductile cast iron. MATEC Web of Conferences, 2018, 165, 10012.	0.2	6
63	Fabrication of heat-treated nano-clay-composite for improving high-cycle fatigue properties of AlSiCu aluminum alloy under stress-controlled fully-reversed bending loads. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2021, 235, 4143-4160.	2.1	6
64	Linking fatigue response of asphalt binders, mastics, and asphalt concrete mixture modified by nano-silica and synthesized polyurethane. International Journal of Damage Mechanics, 2021, 30, 103-122.	4.2	6
65	Scanning and transmission electron microscopy analysis for surface-modified AM60 magnesium alloy by pulsed electron beam irradiation. Nuclear Instruments & Methods in Physics Research B, 2022, 513, 9-13.	1.4	6
66	Multidisciplinary Optimization of a Car Component Under NVH and Weight Constraints Using RSM. , 2009, , .		5
67	Optimal Design Experiment of Ageing Time and Temperature in Inconel-713C Superalloy Based on Hardness Objective. Transactions of the Indian Institute of Metals, 2018, 71, 1563-1572.	1.5	5
68	Effect of Heat-Treating on Microstructure and High Cycle Bending Fatigue Behavior of AZ91 and AZE911 Magnesium Alloys. Advances in Materials Science and Engineering, 2022, 2022, 1-11.	1.8	5
69	Constitutive modeling of elastic-visco-plastic behaviors in aluminum alloys subjected to cyclic loadings at various strain rates. Journal of Strain Analysis for Engineering Design, 2015, 50, 103-124.	1.8	4
70	Creep properties and failure mechanisms of aluminum alloy and aluminum matrix silicon oxide nano-composite under working conditions in engine pistons. Materials Research Express, 2019, 6, 115020.	1.6	4
71	Estimation of Low-Cycle Fatigue Lifetime in Aluminum-Silicon-Magnesium Alloy of Cylinder Heads based on Striation Marks as Failure Features of Fracture Surfaces and Paris Crack Growth Law. Journal of Failure Analysis and Prevention, 2021, 21, 1466-1475.	0.9	4
72	Development of a duty cycle with K-means clustering technique for hydraulic steering in an instrumented TIBA vehicle. Transportation Engineering, 2022, 8, 100114.	4.2	4

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73	Effects of plasma nitriding process on the corrosion behavior of GJS700 nodular cast iron. Surface Topography: Metrology and Properties, 2022, 10, 025008.	1.6	4
74	Experimental and numerical evaluations of stress relaxation in A356 aluminium alloy subjected to out-of-phase thermomechanical cyclic loadings. Materials at High Temperatures, 2014, 31, 204-210.	1.0	3
75	Cumulative acoustic emission energy for damage detection in composites reinforced by carbon fibers within low-cycle fatigue regime at various displacement amplitudes and rates. Polymers and Polymer Composites, 2021, 29, S36-S48.	1.9	3
76	Corrosion Effects on Highâ€cycle Fatigue Lifetime and Fracture Behavior for Heatâ€treated Aluminumâ€matrix Nanoâ€clayâ€composite Compared to Piston Aluminum Alloy. Silicon, 2022, 14, 3749-3763.	3.3	3
77	Effect of nano-clay addition and heat-treatment on tensile and stress-controlled low-cycle fatigue behaviors of aluminum-silicon alloy: Effect of nano-clay addition and heat-treatment. Frattura Ed Integrita Strutturale, 2021, 15, 373-397.	0.9	3
78	Cyclic Deformation Behavior and Failure Mechanism of 316LN Stainless Steel under Creep-Fatigue Loading at 550°C. Journal of Materials Engineering and Performance, 2022, 31, 8314-8326.	2.5	3
79	Micromechanical constitutive modeling of tensile and cyclic behaviors of nano-clay reinforced metal matrix nanocomposites. Mechanics of Materials, 2022, 168, 104280.	3.2	3
80	Nonlinear Thermoelastic Stress Analysis of the Rotating FGM Disk With Variable Thickness and Temperature-Dependent Material Properties Using Finite Element Method. , 2009, , .		2
81	The effect of the chemical composition and the volume of coated carbonate calcium on epoxy paint properties. Russian Journal of Applied Chemistry, 2017, 90, 1181-1187.	0.5	2
82	Numerical simulations of carbon/epoxy laminated composites under various loading rates, comparing extended finite element method and cohesive zone modeling. Material Design and Processing Communications, 2020, , e198.	0.9	2
83	Sensitivity analysis for effects of heat treatment, stress, and temperature on AlSi12CuNiMg aluminum alloy behavior under force-controlled creep loading. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	2
84	Data analysis for investigating the tribological behaviors of aluminum-silicon alloys. Data in Brief, 2022, 42, 108260.	1.0	2
85	Multidisciplinary optimisation of a car component under NVH and weight constraints using RSM. International Journal of Vehicle Noise and Vibration, 2009, 5, 261.	0.1	1
86	Failure analysis and prevention in powertrain systems. , 2016, , 471-492.		1
87	The Effect of Various Parameters on Out-of-phase Thermo-mechanical Fatigue Lifetime of A356.0 Cast Aluminum Alloy. International Journal of Engineering, Transactions B: Applications, 2012, 26, .	0.7	1
88	Effects of Ageing and Forging on Short-term Creep Behaviors of Inconel-713C Superalloy at 850 °C. International Journal of Engineering, Transactions A: Basics, 2020, 33, .	0.4	1
89	Investigation of the Heat Treatment Effect on Microstructures and Phases of Inconel 713C Superalloy. International Journal of Engineering, Transactions A: Basics, 2017, 30, .	0.4	1
90	Effects of Various Ageing Heat Treatments on Microstructural Features and Hardness of Piston Aluminum Alloy. International Journal of Engineering, Transactions A: Basics, 2019, 32, .	0.4	1

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91	Temperature Effect on Creep and Fracture Behaviors of Nano-SiO2-composite and AlSi12Cu3Ni2MgFe Aluminum Alloy. International Journal of Engineering Transactions B: Applications, 2020, 33, .	0.5	1
92	Sensitivity analysis of mechanical properties and ductile/brittle behaviors in aluminumâ€silicon alloy to loading rate and nanoâ€particles, considering interaction effects. Engineering Reports, 2021, 3, e12341.	1.7	1
93	Fatigue Analysis of Antiroll Bar for Periodic and Random Inputs Using Various Theories and Introducing a New Method. , 2009, , .		0
94	Thermoelastic Stresses in FG-Cylinders. , 0, , .		0
95	Bending cyclic behavior and scatter-band analysis of aluminum alloys under beneficial and detrimental conditions through high-cycle fatigue regime. Frattura Ed Integrita Strutturale, 2021, 15, 272-281.	0.9	0
96	PREDICTION OF FIBER BREAKAGE AND MATRIX CRACKING IN POLYMERIC COMPOSITES UNDER LOW-CYCLE FATIGUE REGIMES BY FUZZY AND WAVELET CLUSTERING OF ACOUSTIC EMISSION SIGNALS. Composites: Mechanics, Computations, Applications, 2021, 12, 17-51.	0.3	0
97	Effect of Temperature and Gas Flux on the Mechanical Behavior of TiC Coating by Pulsed DC Plasma Enhanced Chemical Vapor Deposition. International Journal of Engineering, Transactions B: Applications, 2014, 27, .	0.7	0
98	Sensitivity analysis of stress, pre-corrosion, nano-particles and heat treatment on fatigue lifetime of aluminum alloy. Procedia Structural Integrity, 2021, 33, 181-188.	0.8	0
99	A Perspective on Metamaterials for the Biomechanics Application: Multi-Material Metamaterial (4M) Structures. Materials Science Forum, 0, 1064, 151-156.	0.3	Ο