Huang Yuan

List of Publications by Year
in descending order

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110	2,154	218381	288905
papers	citations	26 h-index	40 g-index

115	115	115	1173
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Assessment of mechanical properties and fatigue performance of a selective laser melted nickel-base superalloy Inconel 718. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 759, 278-287.	2.6	117
2	Quantification of constraint effects in elastic-plastic crack front fields. Journal of the Mechanics and Physics of Solids, 1998, 46, 219-241.	2.3	98
3	Suggestions to the cohesive tractionâ€“separation law from atomistic simulations. Engineering Fracture Mechanics, 2011, 78, 525-533.	2.0	76
4	Identification of the intrinsic material length in gradient plasticity theory from micro-indentation tests. International Journal of Solids and Structures, 2001, 38, 8171-8187.	1.3	67
5	A review of the extended finite element method on macrocrack and microcrack growth simulations. Theoretical and Applied Fracture Mechanics, 2018, 97, 236-249.	2.1	67
6	Verification of a Cohesive Zone Model for Ductile Fracture. Journal of Engineering Materials and Technology, Transactions of the ASME, 1996, 118, 192-200.	0.8	63
7	Life assessment of multiaxial thermomechanical fatigue of a nickel-based superalloy Inconel 718. International Journal of Fatigue, 2019, 120, 228-240.	2.8	58
8	A continuum damage model for multi-axial low cycle fatigue of porous sintered metals based on the critical plane concept. Mechanics of Materials, 2017, 104, 13-25.	1.7	57
9	Computational analysis of mixed-mode fatigue crack growth in quasi-brittle materials using extended finite element methods. Engineering Fracture Mechanics, 2009, 76, 165-181.	2.0	52
10	On damage accumulations in the cyclic cohesive zone model for XFEM analysis of mixed-mode fatigue crack growth. Computational Materials Science, 2009, 46, 579-585.	1.4	51
11	Multiaxial fatigue life assessment of sintered porous iron under proportional and non-proportional loadings. International Journal of Fatigue, 2017, 97, 214-226.	2.8	47
12	Cyclic plasticity modeling of nickel-based superalloy Inconel 718 under multi-axial thermo-mechanical fatigue loading conditions. International Journal of Fatigue, 2019, 119, 89-101.	2.8	47
13	FEM mesh-dependence in cutting process simulations. International Journal of Advanced Manufacturing Technology, 2011, 53, 313-323.	1.5	46
14	Applications of normal stress dominated cohesive zone models for mixed-mode crack simulation based on extended finite element methods. Engineering Fracture Mechanics, 2011, 78, 544-558.	2.0	46
15	Numerical investigations on the significance of for large stable crack growth. Engineering Fracture Mechanics, 1989, 32, 459-468.	2.0	45
16	Effects of the cohesive law on ductile crack propagation simulation by using cohesive zone models. Engineering Fracture Mechanics, 2014, 126, 1-11.	2.0	42
17	Application of material point methods for cutting process simulations. Computational Materials Science, 2012, 57, 102-110.	1.4	41
18	Assessment of low cycle fatigue crack growth under mixed-mode loading conditions by using a cohesive zone model. International Journal of Fatigue, 2015, 75, 39-50.	2.8	35

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19	Ratcheting and fatigue properties of the high-nitrogen steel X13CrMnMoN18-14-3 under cyclic loading. Computational Materials Science, 2009, 46, 572-578.	1.4	32
20	A damage evolution model based on micro-structural characteristics for an additive manufactured superalloy under monotonic and cyclic loading conditions. International Journal of Fatigue, 2020, 131, 105279.	2.8	32
21	A micro-mechanical damage model based on gradient plasticity: algorithms and applications. International Journal for Numerical Methods in Engineering, 2002, 54, 399-420.	1.5	31
22	Assessment of thermo-mechanical fatigue in a nickel-based single-crystal superalloy CMSX-4 accounting for temperature gradient effects. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 809, 140918.	2.6	29
23	Prediction of residual stress relaxations in shot-peened specimens and its application for the rotor disc assessment. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 6690-6698.	2.6	28
24	Computational modeling of mixed-mode fatigue crack growth using extended finite element methods. International Journal of Fracture, 2009, 159, 151-165.	1.1	27
25	Mechanical behavior and fatigue performance of austenitic stainless steel under consideration of martensitic phase transformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 679, 249-257.	2.6	27
26	Evolution and characterization of cyclic thermal shock-induced thermomechanical damage in oxide/oxide ceramics matrix composites. International Journal of Fatigue, 2019, 120, 150-161.	2.8	27
27	Investigations of size effects in tensile tests based on a nonlocal micro-mechanical damage model. Computational Materials Science, 2003, 26, 230-243.	1.4	26
28	Elastoplastic crack analysis for pressure-sensitive dilatant materials ? Part I: Higher-order solutions and two-parameter characterization. International Journal of Fracture, 1993, 61, 295-330.	1.1	25
29	Cohesive zone modelling of low cycle fatigue cracks in cracked and notched specimens. Fatigue and Fracture of Engineering Materials and Structures, 2013, 36, 1246-1257.	1.7	25
30	On the J-integral concept for elastic-plastic crack extension. Nuclear Engineering and Design, 1991, 131, 157-173.	0.8	24
31	Computational analysis of thin coating layer failure using a cohesive model and gradient plasticity. Engineering Fracture Mechanics, 2003, 70, 1929-1942.	2.0	24
32	Damage evolution and modeling of sintered metals under multi-axial loading conditions. Computational Materials Science, 2013, 80, 123-133.	1.4	24
33	Thermal gradient mechanical fatigue assessment of a nickel-based superalloy. International Journal of Fatigue, 2020, 135, 105486.	2.8	24
34	Analysis of size effects based on a symmetric lower-order gradient plasticity model. Computational Materials Science, 2000, 19, 143-157.	1.4	23
35	Surface vs. interior failure behaviors in a structural steel under gigacycle fatigue: Failure analysis and life prediction. International Journal of Fatigue, 2014, 64, 42-53.	2.8	23
36	Prediction of fatigue crack growth and residual stress relaxations in shot-peened material. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 5962-5968.	2.6	22

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37	Representation of micro-structural evolution and thermo-mechanical damage in thermal shocked oxide/oxide ceramic matrix composites. International Journal of Fatigue, 2019, 126, 122-129.	2.8	22
38	Correlations between microstructure evolution and mechanical behavior of a nickel-based single crystal superalloy with long-term aging effects. Materials Characterization, 2020, 169, 110652.	1.9	22
39	Analysis of elastoplastic sharp notches. International Journal of Fracture, 1994, 67, 187-216.	1.1	20
40	Micro-porosity as damage indicator for characterizing cyclic thermal shock-induced anisotropic damage in oxide/oxide ceramic matrix composites. Engineering Fracture Mechanics, 2019, 220, 106669.	2.0	20
41	Computational fracture mechanics assessment of adhesive joints. Computational Materials Science, 2008, 43, 146-156.	1.4	19
42	Fracture energy and tensile strength depending on stress triaxiality along a running crack front in three-dimensional cohesive modeling. Engineering Fracture Mechanics, 2020, 227, 106919.	2.0	18
43	Quantifications of crack constraint effects in an austenitic steel. International Journal of Fracture, 1995, 71, 273-291.	1.1	17
44	Experimental and computational investigation of cyclic mechanical behavior of sintered iron. Computational Materials Science, 2012, 57, 48-58.	1.4	17
45	Critical remarks to cohesive zone modeling for three-dimensional elastoplastic fatigue crack propagation. Engineering Fracture Mechanics, 2018, 202, 311-331.	2.0	17
46	Computational algorithms and applications of element-free Galerkin methods for nonlocal damage models. Engineering Fracture Mechanics, 2010, 77, 2640-2653.	2.0	16
47	The role of intrinsic material length scales in micro-indentation simulations. Computational Materials Science, 2002, 25, 253-263.	1.4	15
48	Prediction of 3D small fatigue crack propagation in shot-peened specimens. Computational Materials Science, 2009, 46, 566-571.	1.4	15
49	Damage evolution and characterization for sintered powder metals with the varying porosity. Engineering Fracture Mechanics, 2019, 207, 86-98.	2.0	15
50	Fatigue life assessment of a porous casting nickel-based superalloy based on fracture mechanics methodology. International Journal of Fatigue, 2020, 136, 105575.	2.8	15
51	Analysis of creepâ€“fatigue life prediction models for nickel-based super alloys. Computational Materials Science, 2012, 57, 80-88.	1.4	14
52	Computational investigation of multi-axial damage modeling for porous sintered metals with experimental verification. Engineering Fracture Mechanics, 2015, 149, 89-110.	2.0	14
53	Chemo-thermo-mechanical modeling of EB-PVD TBC failure subjected to isothermal and cyclic thermal exposures. International Journal of Fatigue, 2020, 141, 105817.	2.8	14
54	Microstructural characterization and fatigue performance of the recast material induced by laser manufacturing of a nickel-based superalloy. Journal of Materials Processing Technology, 2021, 293, 117087.	3.1	14

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55	Identification of material parameters of micropolar theory for composites by homogenization method. Computational Materials Science, 2009, 46, 733-737.	1.4	13
56	Prediction of fatigue crack growth retardation using a cyclic cohesive zone model. Archive of Applied Mechanics, 2017, 87, 1061-1075.	1.2	13
57	Plasticity modeling for a metastable austenitic stainless steel with strain-induced martensitic transformation under cyclic loading conditions. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 775, 138961.	2.6	13
58	Anisotropic damage evolution and modeling for a nickel-based superalloy built by additive manufacturing. Engineering Fracture Mechanics, 2022, 268, 108450.	2.0	13
59	Title is missing!. International Journal of Fracture, 2000, 100, 355-377.	1.1	12
60	Continuum damage mechanics for sintered powder metals. Science China: Physics, Mechanics and Astronomy, 2015, 58, 1-12.	2.0	12
61	Elastoplastic crack analysis for pressure-sensitive dilatant materials-Part II: Interface cracks. International Journal of Fracture, 1995, 69, 167-187.	1.1	11
62	Nonlocal damage modelling using the element-free Galerkin method in the frame of finite strains. Computational Materials Science, 2009, 46, 660-666.	1.4	10
63	Cyclic plasticity modeling and fatigue life assessment of the recasting material of a nickel-based superalloy induced by laser manufacturing. International Journal of Fatigue, 2021, 147, 106154.	2.8	10
64	Computational modelling of poro-visco-hyperelastic effects on time-dependent fatigue crack growth of hydrogels. International Journal of Plasticity, 2022, 155, 103307.	4.1	10
65	Comparison of computational predictions of material failure using nonlocal damage models. International Journal of Solids and Structures, 2004, 41, 1021-1037.	1.3	9
66	Damage modeling of oxide/oxide ceramic matrix composites under cyclic loading conditions. Ceramics International, 2020, 46, 23379-23389.	2.3	9
67	Computational assessment of cracks under strain-gradient plasticity. International Journal of Fracture, 2011, 167, 235-248.	1.1	8
68	Investigation of Micromechanical Deformation Mechanisms in Sinter Powder Metals. Advanced Materials Research, 0, 668, 351-355.	0.3	8
69	A novel elastoplastic constitutive model for woven oxide/oxide ceramic matrix composites with anisotropic hardening. Composite Structures, 2019, 229, 111420.	3.1	8
70	Investigation of Thermal Gradient Mechanical Fatigue Test Methods for Nickel-based Superalloys. Experimental Mechanics, 2021, 61, 565-580.	1.1	8
71	Assessment of three-dimensional multi-crack propagation for fatigue life prediction. International Journal of Pressure Vessels and Piping, 2022, 198, 104660.	1.2	8
72	Anisotropic cyclic plasticity modeling for additively manufactured nickelâ€based superalloys. Fatigue and Fracture of Engineering Materials and Structures, 2022, 45, 2371-2387.	1.7	8

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73	A perturbation analysis of combined mode I and III dynamic crack propagation. Acta Mechanica, 1994, 104, 27-63.	1.1	7
74	Simulation of Intergranular Ductile Cracking in Î² Titanium Alloys Based on a Micro-Mechanical Damage Model. Materials, 2017, 10, 1250.	1.3	7
75	Characterization of the recasting-affected zone in the nickel-based superalloy upon single-pulse laser treatment. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 826, 141897.	2.6	7
76	Shielding effects on fatigue and crack growth of the recasting zone induced by laser manufacturing in a nickel-based superalloy. International Journal of Fatigue, 2022, 154, 106523.	2.8	7
77	Modelling and simulation of coupled fluid transport and time-dependent fracture in fibre-reinforced hydrogel composites. Computer Methods in Applied Mechanics and Engineering, 2022, 390, 114470.	3.4	7
78	Effects of heat treatments on microstructure and mechanical properties of laser melting multi-layer materials. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 848, 143380.	2.6	7
79	Fracture mechanics assessment of stress concentrations in incomplete fretting contacts. Engineering Fracture Mechanics, 2009, 76, 2344-2358.	2.0	6
80	Computational analysis and characterization of fretting stress fields. Computational Materials Science, 2009, 45, 674-679.	1.4	6
81	Applications of meshless methods for damage computations with finite strains. Modelling and Simulation in Materials Science and Engineering, 2009, 17, 045005.	0.8	6
82	Applications of the element-free Galerkin method for singular stress analysis under strain gradient plasticity theories. Engineering Fracture Mechanics, 2011, 78, 452-461.	2.0	6
83	Experimental and computational investigations of nonlinear frictional behavior in threaded fasteners. Tribology International, 2021, 154, 106737.	3.0	6
84	A nonlocal treatment technique based on the background cell concept for micro-mechanical damage modeling. Acta Mechanica, 2015, 226, 1529-1547.	1.1	5
85	Kinetics of deformation-induced martensitic transformation under cyclic loading conditions. Scripta Materialia, 2020, 189, 53-57.	2.6	5
86	On <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e904" altimg="si128.svg"><mml:mrow><mml:mi>Î”</mml:mi><mml:mi>J</mml:mi></mml:mrow></mml:math> characterization of elasticâ€“plastic crack-tip fields under fatigue loading conditions. International Journal of Fatigue, 2022, 160, 106849.	2.8	5
87	Multi-axial fatigue life assessment of additively manufactured nickel-based superalloys. International Journal of Fatigue, 2022, 163, 107049.	2.8	5
88	Singular stress fields at V-notch tips in elastoplastic pressure-sensitive materials. Acta Mechanica, 1996, 118, 151-170.	1.1	4
89	Micro-defect effect on gigacycle fatigue S-N property and very slow crack growth of high strength low alloy steel. Materials Science and Technology, 2013, 29, 1101-1110.	0.8	4
90	Application of a Cohesive Zone Model for Simulating Fatigue Crack Growth from Moderate to High <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1"><mml:mi mathvariant="normal">Î”</mml:mi><mml:mi>K</mml:mi></mml:math> Levels of Inconel 718. International Journal of Aerospace Engineering, 2018, 2018, 1-13.	0.5	4

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91	Experimental and Computational Investigations on Fretting Fatigue Crack Growth in Dovetail Joints. AIAA Journal, 2022, 60, 4893-4905.	1.5	4
92	Numerical Simulation of Creep-Fatigue Crack Growth for Nickel-Based Super Alloy with Extended Finite Element Method. Advanced Materials Research, 2011, 321, 171-175.	0.3	3
93	Cohesive Zone Modeling for 3D Ductile Crack Propagation. Applied Mechanics and Materials, 0, 853, 132-136.	0.2	3
94	A quantitative description of machining effects to mechanical behavior of sintered powder metals. Journal of Materials Processing Technology, 2018, 258, 310-318.	3.1	3
95	Asymptotic Analysis of Steady-State Crack Extension of Combined Modes I and III in Elastic-Plastic Materials with Linear Hardening. , 1993, , 185-207.		3
96	Estimate of Temperature Gradients of Thin-Walled Structures Under Thermomechanical Fatigue Loading. AIAA Journal, 2022, 60, 5489-5499.	1.5	3
97	Plane stress near-tip field analysis of steady-state crack growth along a linear-hardening elastic-plastic interface. Acta Mechanica, 1995, 109, 207-226.	1.1	2
98	Dynamic crack growth along an elastoplastic bimaterial interface. Acta Mechanica, 1997, 121, 51-77.	1.1	2
99	Notes on plastic reloading zone in the asymptotic analysis of elastic-plastic crack extension. Archive of Applied Mechanics, 1991, 61, 471-478.	1.2	2
100	Quantitative correlation between rafting microstructure and anisotropic mechanical behavior in dual-phase materials. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 847, 143286.	2.6	2
101	Computational boundary layer approaches for fatigue crack propagation under mixed-mode loading conditions. Proceedings in Applied Mathematics and Mechanics, 2008, 8, 10251-10252.	0.2	1
102	On overall properties of microâ€polar composites with interface effects. Proceedings in Applied Mathematics and Mechanics, 2008, 8, 10579-10580.	0.2	1
103	An Asymptotic Analysis of Static and Dynamic Crack Extension Along a Ductile Bimaterial Interface/Anti-Plane Case. , 1993, , 208-226.		1
104	Characterization of isothermal and cyclic thermal damage of EBâ€PVD TBCs with the help of the 3Dâ€DIC technique. Fatigue and Fracture of Engineering Materials and Structures, 2022, 45, 186-202.	1.7	1
105	Computational Analysis of Fatigue Crack Propagation at Elevated Temperature for IN718. Applied Mechanics and Materials, 0, 110-116, 29-32.	0.2	0
106	Micro and macro cracks. Engineering Fracture Mechanics, 2012, 95, 1.	2.0	0
107	On Determining Elastic Modulus from Instrumented Indentation. Advanced Materials Research, 0, 668, 616-620.	0.3	0
108	LCF Assessment of Electron-Beam-Welded Notched Parts of Nickel-Based Superalloy Inconel 718. , 2014, , .		0

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109	Thermal Gradient Mechanical Fatigue Assessment of a Nickel-Based Superalloy. MATEC Web of Conferences, 2019, 300, 07004.	0.1	0
110	Size-dependent fracture energy correlated with the crack tip stress fields in concrete-like materials. , 2004, , 423-434.		0