

Huang Yuan

List of Publications by Citations

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104
papers

1,525
citations

22
h-index

33
g-index

115
ext. papers

1,866
ext. citations

3.5
avg, IF

5.51
L-index

#	Paper	IF	Citations
104	Quantification of constraint effects in elastic-plastic crack front fields. <i>Journal of the Mechanics and Physics of Solids</i> , 1998 , 46, 219-241	5	81
103	Assessment of mechanical properties and fatigue performance of a selective laser melted nickel-base superalloy Inconel 718. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 759, 278-287	5.3	70
102	Suggestions to the cohesive traction-separation law from atomistic simulations. <i>Engineering Fracture Mechanics</i> , 2011 , 78, 525-533	4.2	63
101	Verification of a Cohesive Zone Model for Ductile Fracture. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 1996 , 118, 192-200	1.8	57
100	Identification of the intrinsic material length in gradient plasticity theory from micro-indentation tests. <i>International Journal of Solids and Structures</i> , 2001 , 38, 8171-8187	3.1	56
99	On damage accumulations in the cyclic cohesive zone model for XFEM analysis of mixed-mode fatigue crack growth. <i>Computational Materials Science</i> , 2009 , 46, 579-585	3.2	45
98	A continuum damage model for multi-axial low cycle fatigue of porous sintered metals based on the critical plane concept. <i>Mechanics of Materials</i> , 2017 , 104, 13-25	3.3	43
97	Computational analysis of mixed-mode fatigue crack growth in quasi-brittle materials using extended finite element methods. <i>Engineering Fracture Mechanics</i> , 2009 , 76, 165-181	4.2	39
96	Applications of normal stress dominated cohesive zone models for mixed-mode crack simulation based on extended finite element methods. <i>Engineering Fracture Mechanics</i> , 2011 , 78, 544-558	4.2	39
95	FEM mesh-dependence in cutting process simulations. <i>International Journal of Advanced Manufacturing Technology</i> , 2011 , 53, 313-323	3.2	38
94	Numerical investigations on the significance of for large stable crack growth. <i>Engineering Fracture Mechanics</i> , 1989 , 32, 459-468	4.2	38
93	Application of material point methods for cutting process simulations. <i>Computational Materials Science</i> , 2012 , 57, 102-110	3.2	34
92	Multiaxial fatigue life assessment of sintered porous iron under proportional and non-proportional loadings. <i>International Journal of Fatigue</i> , 2017 , 97, 214-226	5	32
91	A review of the extended finite element method on macrocrack and microcrack growth simulations. <i>Theoretical and Applied Fracture Mechanics</i> , 2018 , 97, 236-249	3.7	29
90	Ratcheting and fatigue properties of the high-nitrogen steel X13CrMnMoN18-14-3 under cyclic loading. <i>Computational Materials Science</i> , 2009 , 46, 572-578	3.2	29
89	Effects of the cohesive law on ductile crack propagation simulation by using cohesive zone models. <i>Engineering Fracture Mechanics</i> , 2014 , 126, 1-11	4.2	28
88	A micro-mechanical damage model based on gradient plasticity: algorithms and applications. <i>International Journal for Numerical Methods in Engineering</i> , 2002 , 54, 399-420	2.4	28

87	Life assessment of multiaxial thermomechanical fatigue of a nickel-based superalloy Inconel 718. <i>International Journal of Fatigue</i> , 2019 , 120, 228-240	5	28
86	Computational modeling of mixed-mode fatigue crack growth using extended finite element methods. <i>International Journal of Fracture</i> , 2009 , 159, 151-165	2.3	25
85	Assessment of low cycle fatigue crack growth under mixed-mode loading conditions by using a cohesive zone model. <i>International Journal of Fatigue</i> , 2015 , 75, 39-50	5	24
84	Investigations of size effects in tensile tests based on a nonlocal micro-mechanical damage model. <i>Computational Materials Science</i> , 2003 , 26, 230-243	3.2	24
83	Cyclic plasticity modeling of nickel-based superalloy Inconel 718 under multi-axial thermo-mechanical fatigue loading conditions. <i>International Journal of Fatigue</i> , 2019 , 119, 89-101	5	24
82	Prediction of residual stress relaxations in shot-peened specimens and its application for the rotor disc assessment. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 6690-6698	5.3	22
81	Computational analysis of thin coating layer failure using a cohesive model and gradient plasticity. <i>Engineering Fracture Mechanics</i> , 2003 , 70, 1929-1942	4.2	22
80	Elastoplastic crack analysis for pressure-sensitive dilatant materials [Part I: Higher-order solutions and two-parameter characterization. <i>International Journal of Fracture</i> , 1993 , 61, 295-330	2.3	22
79	A damage evolution model based on micro-structural characteristics for an additive manufactured superalloy under monotonic and cyclic loading conditions. <i>International Journal of Fatigue</i> , 2020 , 131, 105279	5	22
78	Analysis of size effects based on a symmetric lower-order gradient plasticity model. <i>Computational Materials Science</i> , 2000 , 19, 143-157	3.2	21
77	Damage evolution and modeling of sintered metals under multi-axial loading conditions. <i>Computational Materials Science</i> , 2013 , 80, 123-133	3.2	20
76	Mechanical behavior and fatigue performance of austenitic stainless steel under consideration of martensitic phase transformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 679, 249-257	5.3	20
75	Cohesive zone modelling of low cycle fatigue cracks in cracked and notched specimens. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2013 , 36, 1246-1257	3	20
74	Analysis of elastoplastic sharp notches. <i>International Journal of Fracture</i> , 1994 , 67, 187-216	2.3	19
73	Surface vs. interior failure behaviors in a structural steel under gigacycle fatigue: Failure analysis and life prediction. <i>International Journal of Fatigue</i> , 2014 , 64, 42-53	5	18
72	Prediction of fatigue crack growth and residual stress relaxations in shot-peened material. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 5962-5968	5.3	18
71	Computational fracture mechanics assessment of adhesive joints. <i>Computational Materials Science</i> , 2008 , 43, 146-156	3.2	18
70	On the J-integral concept for elastic-plastic crack extension. <i>Nuclear Engineering and Design</i> , 1991 , 131, 157-173	1.8	18

69	Evolution and characterization of cyclic thermal shock-induced thermomechanical damage in oxide/oxide ceramics matrix composites. <i>International Journal of Fatigue</i> , 2019 , 120, 150-161	5	18
68	Experimental and computational investigation of cyclic mechanical behavior of sintered iron. <i>Computational Materials Science</i> , 2012 , 57, 48-58	3.2	17
67	Computational algorithms and applications of element-free Galerkin methods for nonlocal damage models. <i>Engineering Fracture Mechanics</i> , 2010 , 77, 2640-2653	4.2	15
66	The role of intrinsic material length scales in micro-indentation simulations. <i>Computational Materials Science</i> , 2002 , 25, 253-263	3.2	15
65	Representation of micro-structural evolution and thermo-mechanical damage in thermal shocked oxide/oxide ceramic matrix composites. <i>International Journal of Fatigue</i> , 2019 , 126, 122-129	5	14
64	Thermal gradient mechanical fatigue assessment of a nickel-based superalloy. <i>International Journal of Fatigue</i> , 2020 , 135, 105486	5	14
63	Quantifications of crack constraint effects in an austenitic steel. <i>International Journal of Fracture</i> , 1995 , 71, 273-291	2.3	14
62	Analysis of creep-fatigue life prediction models for nickel-based super alloys. <i>Computational Materials Science</i> , 2012 , 57, 80-88	3.2	13
61	Micro-porosity as damage indicator for characterizing cyclic thermal shock-induced anisotropic damage in oxide/oxide ceramic matrix composites. <i>Engineering Fracture Mechanics</i> , 2019 , 220, 106669	4.2	12
60	Prediction of 3D small fatigue crack propagation in shot-peened specimens. <i>Computational Materials Science</i> , 2009 , 46, 566-571	3.2	12
59	Damage evolution and characterization for sintered powder metals with the varying porosity. <i>Engineering Fracture Mechanics</i> , 2019 , 207, 86-98	4.2	12
58	Continuum damage mechanics for sintered powder metals. <i>Science China: Physics, Mechanics and Astronomy</i> , 2015 , 58, 1-12	3.6	11
57	Computational investigation of multi-axial damage modeling for porous sintered metals with experimental verification. <i>Engineering Fracture Mechanics</i> , 2015 , 149, 89-110	4.2	11
56	Fracture energy and tensile strength depending on stress triaxiality along a running crack front in three-dimensional cohesive modeling. <i>Engineering Fracture Mechanics</i> , 2020 , 227, 106919	4.2	10
55	Nonlocal damage modelling using the element-free Galerkin method in the frame of finite strains. <i>Computational Materials Science</i> , 2009 , 46, 660-666	3.2	10
54	Identification of material parameters of micropolar theory for composites by homogenization method. <i>Computational Materials Science</i> , 2009 , 46, 733-737	3.2	10
53	Elastoplastic crack analysis for pressure-sensitive dilatant materials-Part II: Interface cracks. <i>International Journal of Fracture</i> , 1995 , 69, 167-187	2.3	10
52	Fatigue life assessment of a porous casting nickel-based superalloy based on fracture mechanics methodology. <i>International Journal of Fatigue</i> , 2020 , 136, 105575	5	9

51	Critical remarks to cohesive zone modeling for three-dimensional elastoplastic fatigue crack propagation. <i>Engineering Fracture Mechanics</i> , 2018 , 202, 311-331	4.2	9
50	Computational assessment of cracks under strain-gradient plasticity. <i>International Journal of Fracture</i> , 2011 , 167, 235-248	2.3	8
49	Comparison of computational predictions of material failure using nonlocal damage models. <i>International Journal of Solids and Structures</i> , 2004 , 41, 1021-1037	3.1	8
48	Prediction of fatigue crack growth retardation using a cyclic cohesive zone model. <i>Archive of Applied Mechanics</i> , 2017 , 87, 1061-1075	2.2	7
47	Investigation of Micromechanical Deformation Mechanisms in Sinter Powder Metals. <i>Advanced Materials Research</i> , 2013 , 668, 351-355	0.5	7
46	Correlations between microstructure evolution and mechanical behavior of a nickel-based single crystal superalloy with long-term aging effects. <i>Materials Characterization</i> , 2020 , 169, 110652	3.9	7
45	Plasticity modeling for a metastable austenitic stainless steel with strain-induced martensitic transformation under cyclic loading conditions. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 775, 138961	5.3	6
44	Effects of temperature gradients on crack characterisation under thermal-mechanical loading conditions. <i>International Journal of Fracture</i> , 2000 , 100, 355-377	2.3	6
43	A perturbation analysis of combined mode I and III dynamic crack propagation. <i>Acta Mechanica</i> , 1994 , 104, 27-63	2.1	6
42	Assessment of thermo-mechanical fatigue in a nickel-based single-crystal superalloy CMSX-4 accounting for temperature gradient effects. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 809, 140918	5.3	6
41	Microstructural characterization and fatigue performance of the recast material induced by laser manufacturing of a nickel-based superalloy. <i>Journal of Materials Processing Technology</i> , 2021 , 293, 117087	5.3	6
40	A novel elastoplastic constitutive model for woven oxide/oxide ceramic matrix composites with anisotropic hardening. <i>Composite Structures</i> , 2019 , 229, 111420	5.3	5
39	Applications of meshless methods for damage computations with finite strains. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2009 , 17, 045005	2	5
38	Cyclic plasticity modeling and fatigue life assessment of the recasting material of a nickel-based superalloy induced by laser manufacturing. <i>International Journal of Fatigue</i> , 2021 , 147, 106154	5	5
37	Investigation of Thermal Gradient Mechanical Fatigue Test Methods for Nickel-based Superalloys. <i>Experimental Mechanics</i> , 2021 , 61, 565-580	2.6	5
36	Simulation of Intergranular Ductile Cracking in Titanium Alloys Based on a Micro-Mechanical Damage Model. <i>Materials</i> , 2017 , 10,	3.5	4
35	Micro-defect effect on gigacycle fatigue S-N property and very slow crack growth of high strength low alloy steel. <i>Materials Science and Technology</i> , 2013 , 29, 1101-1110	1.5	4
34	Fracture mechanics assessment of stress concentrations in incomplete fretting contacts. <i>Engineering Fracture Mechanics</i> , 2009 , 76, 2344-2358	4.2	4

33	Computational analysis and characterization of fretting stress fields. <i>Computational Materials Science</i> , 2009 , 45, 674-679	3.2	4
32	Chemo-thermo-mechanical modeling of EB-PVD TBC failure subjected to isothermal and cyclic thermal exposures. <i>International Journal of Fatigue</i> , 2020 , 141, 105817	5	4
31	A nonlocal treatment technique based on the background cell concept for micro-mechanical damage modeling. <i>Acta Mechanica</i> , 2015 , 226, 1529-1547	2.1	3
30	A quantitative description of machining effects to mechanical behavior of sintered powder metals. <i>Journal of Materials Processing Technology</i> , 2018 , 258, 310-318	5.3	3
29	Applications of the element-free Galerkin method for singular stress analysis under strain gradient plasticity theories. <i>Engineering Fracture Mechanics</i> , 2011 , 78, 452-461	4.2	3
28	Numerical Simulation of Creep-Fatigue Crack Growth for Nickel-Based Super Alloy with Extended Finite Element Method. <i>Advanced Materials Research</i> , 2011 , 321, 171-175	0.5	3
27	Singular stress fields at V-notch tips in elastoplastic pressure-sensitive materials. <i>Acta Mechanica</i> , 1996 , 118, 151-170	2.1	3
26	Asymptotic Analysis of Steady-State Crack Extension of Combined Modes I and III in Elastic-Plastic Materials with Linear Hardening 185-185-23		3
25	Numerical Assessments of Cracks in Elastic-Plastic Materials 2002 ,		3
24	Damage modeling of oxide/oxide ceramic matrix composites under cyclic loading conditions. <i>Ceramics International</i> , 2020 , 46, 23379-23389	5.1	3
23	Characterization of the recasting-affected zone in the nickel-based superalloy upon single-pulse laser treatment. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 826, 141897	5.3	3
22	Cohesive Zone Modeling for 3D Ductile Crack Propagation. <i>Applied Mechanics and Materials</i> , 2016 , 853, 132-136	0.3	2
21	Application of a Cohesive Zone Model for Simulating Fatigue Crack Growth from Moderate to High \mathbb{R} Levels of Inconel 718. <i>International Journal of Aerospace Engineering</i> , 2018 , 2018, 1-13	0.9	2
20	Dynamic crack growth along an elastoplastic bimaterial interface. <i>Acta Mechanica</i> , 1997 , 121, 51-77	2.1	2
19	Modelling and simulation of coupled fluid transport and time-dependent fracture in fibre-reinforced hydrogel composites. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022 , 390, 114470	5.7	2
18	Shielding effects on fatigue and crack growth of the recasting zone induced by laser manufacturing in a nickel-based superalloy. <i>International Journal of Fatigue</i> , 2022 , 154, 106523	5	2
17	Notes on plastic reloading zone in the asymptotic analysis of elastic-plastic crack extension. <i>Archive of Applied Mechanics</i> , 1991 , 61, 471-478	2.2	2
16	Computational boundary layer approaches for fatigue crack propagation under mixed-mode loading conditions. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2008 , 8, 10251-10252	0.2	1

15	On overall properties of micro-polar composites with interface effects. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2008 , 8, 10579-10580	0.2	1
14	Plane stress near-tip field analysis of steady-state crack growth along a linear-hardening elastic-plastic interface. <i>Acta Mechanica</i> , 1995 , 109, 207-226	2.1	1
13	Kinetics of deformation-induced martensitic transformation under cyclic loading conditions. <i>Scripta Materialia</i> , 2020 , 189, 53-57	5.6	1
12	Experimental and computational investigations of nonlinear frictional behavior in threaded fasteners. <i>Tribology International</i> , 2021 , 154, 106737	4.9	1
11	Anisotropic damage evolution and modeling for a nickel-based superalloy built by additive manufacturing. <i>Engineering Fracture Mechanics</i> , 2022 , 108450	4.2	1
10	Computational modelling of poro-visco-hyperelastic effects on time-dependent fatigue crack growth of hydrogels. <i>International Journal of Plasticity</i> , 2022 , 155, 103307	7.6	1
9	Assessment of three-dimensional multi-crack propagation for fatigue life prediction. <i>International Journal of Pressure Vessels and Piping</i> , 2022 , 104660	2.4	0
8	Experimental and Computational Investigations on Fretting Fatigue Crack Growth in Dovetail Joints. <i>AIAA Journal</i> , 1-13	2.1	0
7	On Γ characterization of elastic-plastic crack-tip fields under fatigue loading conditions. <i>International Journal of Fatigue</i> , 2022 , 160, 106849	5	0
6	Quantitative correlation between rafting microstructure and anisotropic mechanical behavior in dual-phase materials. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 847, 143286	5.3	0
5	Effects of heat treatments on microstructure and mechanical properties of laser melting multi-layer materials. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 143380	5.3	0
4	On Determining Elastic Modulus from Instrumented Indentation. <i>Advanced Materials Research</i> , 2013 , 668, 616-620	0.5	
3	Computational Analysis of Fatigue Crack Propagation at Elevated Temperature for IN718. <i>Applied Mechanics and Materials</i> , 2011 , 110-116, 29-32	0.3	
2	Size-dependent fracture energy correlated with the crack tip stress fields in concrete-like materials 2004 , 423-434		
1	Thermal Gradient Mechanical Fatigue Assessment of a Nickel-Based Superalloy. <i>MATEC Web of Conferences</i> , 2019 , 300, 07004	0.3	