Huang Yuan

List of Publications by Year in Descending Order

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	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	5.7	2
103	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	5	2
102	Assessment of three-dimensional multi-crack propagation for fatigue life prediction. *International Journal of Pressure Vessels and Piping*, **2022**, 104660	2.4	0
101	On □ characterization of elastic□lastic crack-tip fields under fatigue loading conditions. *International Journal of Fatigue*, **2022**, 160, 106849	5	0
100	Anisotropic damage evolution and modeling for a nickel-based superalloy built by additive manufacturing. *Engineering Fracture Mechanics*, **2022**, 108450	4.2	1
99	Computational modelling of poro-visco-hyperelastic effects on time-dependent fatigue crack growth of hydrogels. *International Journal of Plasticity*, **2022**, 155, 103307	7.6	1
98	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	5.3	0
97	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**, 143380	5.3	0
96	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	5.3	6
95	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	5	5
94	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	5.3	6
93	Experimental and computational investigations of nonlinear frictional behavior in threaded fasteners. *Tribology International*, **2021**, 154, 106737	4.9	1
92	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	5.3	3
91	Investigation of Thermal Gradient Mechanical Fatigue Test Methods for Nickel-based Superalloys. *Experimental Mechanics*, **2021**, 61, 565-580	2.6	5
90	Fatigue life assessment of a porous casting nickel-based superalloy based on fracture mechanics methodology. *International Journal of Fatigue*, **2020**, 136, 105575	5	9
89	Thermal gradient mechanical fatigue assessment of a nickel-based superalloy. *International Journal of Fatigue*, **2020**, 135, 105486	5	14
88	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	4.2	10

87	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	5.3	6
86	Kinetics of deformation-induced martensitic transformation under cyclic loading conditions. *Scripta Materialia*, **2020**, 189, 53-57	5.6	1
85	Damage modeling of oxide/oxide ceramic matrix composites under cyclic loading conditions. *Ceramics International*, **2020**, 46, 23379-23389	5.1	3
84	Chemo-thermo-mechanical modeling of EB-PVD TBC failure subjected to isothermal and cyclic thermal exposures. *International Journal of Fatigue*, **2020**, 141, 105817	5	4
83	Correlations between microstructure evolution and mechanical behavior of a nickel-based single crystal superalloy with long-term aging effects. *Materials Characterization*, **2020**, 169, 110652	3.9	7
82	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	5	22
81	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	4.2	12
80	A novel elastoplastic constitutive model for woven oxide/oxide ceramic matrix composites with anisotropic hardening. *Composite Structures*, **2019**, 229, 111420	5.3	5
79	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	5.3	70
78	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	5	14
77	Thermal Gradient Mechanical Fatigue Assessment of a Nickel-Based Superalloy. *MATEC Web of Conferences*, **2019**, 300, 07004	0.3	
76	Damage evolution and characterization for sintered powder metals with the varying porosity. *Engineering Fracture Mechanics*, **2019**, 207, 86-98	4.2	12
75	Life assessment of multiaxial thermomechanical fatigue of a nickel-based superalloy Inconel 718. *International Journal of Fatigue*, **2019**, 120, 228-240	5	28
74	Evolution and characterization of cyclic thermal shock-induced thermomechanical damage in oxide/oxide ceramics matrix composites. *International Journal of Fatigue*, **2019**, 120, 150-161	5	18
73	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	5	24
72	A quantitative description of machining effects to mechanical behavior of sintered powder metals. *Journal of Materials Processing Technology*, **2018**, 258, 310-318	5.3	3
71	Critical remarks to cohesive zone modeling for three-dimensional elastoplastic fatigue crack propagation. *Engineering Fracture Mechanics*, **2018**, 202, 311-331	4.2	9
70	Application of a Cohesive Zone Model for Simulating Fatigue Crack Growth from Moderate to High K Levels of Inconel 718. *International Journal of Aerospace Engineering*, **2018**, 2018, 1-13	0.9	2

69	A review of the extended finite element method on macrocrack and microcrack growth simulations. *Theoretical and Applied Fracture Mechanics*, **2018**, 97, 236-249	3.7	29
68	Multiaxial fatigue life assessment of sintered porous iron under proportional and non-proportional loadings. *International Journal of Fatigue*, **2017**, 97, 214-226	5	32
67	Prediction of fatigue crack growth retardation using a cyclic cohesive zone model. *Archive of Applied Mechanics*, **2017**, 87, 1061-1075	2.2	7
66	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	5.3	20
65	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	3.3	43
64	Simulation of Intergranular Ductile Cracking in Titanium Alloys Based on a Micro-Mechanical Damage Model. *Materials*, **2017**, 10,	3.5	4
63	Cohesive Zone Modeling for 3D Ductile Crack Propagation. *Applied Mechanics and Materials*, **2016**, 853, 132-136	0.3	2
62	Continuum damage mechanics for sintered powder metals. *Science China: Physics, Mechanics and Astronomy*, **2015**, 58, 1-12	3.6	11
61	A nonlocal treatment technique based on the background cell concept for micro-mechanical damage modeling. *Acta Mechanica*, **2015**, 226, 1529-1547	2.1	3
60	Computational investigation of multi-axial damage modeling for porous sintered metals with experimental verification. *Engineering Fracture Mechanics*, **2015**, 149, 89-110	4.2	11
59	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	5	24
58	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	5	18
57	Effects of the cohesive law on ductile crack propagation simulation by using cohesive zone models. *Engineering Fracture Mechanics*, **2014**, 126, 1-11	4.2	28
56	Damage evolution and modeling of sintered metals under multi-axial loading conditions. *Computational Materials Science*, **2013**, 80, 123-133	3.2	20
55	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	3	20
54	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	1.5	4
53	On Determining Elastic Modulus from Instrumented Indentation. *Advanced Materials Research*, **2013**, 668, 616-620	0.5	
52	Investigation of Micromechanical Deformation Mechanisms in Sinter Powder Metals. *Advanced Materials Research*, **2013**, 668, 351-355	0.5	7

51	Application of material point methods for cutting process simulations. *Computational Materials Science*, **2012**, 57, 102-110	3.2	34
50	Analysis of creep-fatigue life prediction models for nickel-based super alloys. *Computational Materials Science*, **2012**, 57, 80-88	3.2	13
49	Experimental and computational investigation of cyclic mechanical behavior of sintered iron. *Computational Materials Science*, **2012**, 57, 48-58	3.2	17
48	Computational assessment of cracks under strain-gradient plasticity. *International Journal of Fracture*, **2011**, 167, 235-248	2.3	8
47	FEM mesh-dependence in cutting process simulations. *International Journal of Advanced Manufacturing Technology*, **2011**, 53, 313-323	3.2	38
46	Suggestions to the cohesive traction-separation law from atomistic simulations. *Engineering Fracture Mechanics*, **2011**, 78, 525-533	4.2	63
45	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	4.2	39
44	Applications of the element-free Galerkin method for singular stress analysis under strain gradient plasticity theories. *Engineering Fracture Mechanics*, **2011**, 78, 452-461	4.2	3
43	Computational Analysis of Fatigue Crack Propagation at Elevated Temperature for IN718. *Applied Mechanics and Materials*, **2011**, 110-116, 29-32	0.3	
42	Numerical Simulation of Creep-Fatigue Crack Growth for Nickel-Based Super Alloy with Extended Finite Element Method. *Advanced Materials Research*, **2011**, 321, 171-175	0.5	3
41	Computational algorithms and applications of element-free Galerkin methods for nonlocal damage models. *Engineering Fracture Mechanics*, **2010**, 77, 2640-2653	4.2	15
40	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	5.3	22
39	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	5.3	18
38	Computational modeling of mixed-mode fatigue crack growth using extended finite element methods. *International Journal of Fracture*, **2009**, 159, 151-165	2.3	25
37	Computational analysis of mixed-mode fatigue crack growth in quasi-brittle materials using extended finite element methods. *Engineering Fracture Mechanics*, **2009**, 76, 165-181	4.2	39
36	Fracture mechanics assessment of stress concentrations in incomplete fretting contacts. *Engineering Fracture Mechanics*, **2009**, 76, 2344-2358	4.2	4
35	Computational analysis and characterization of fretting stress fields. *Computational Materials Science*, **2009**, 45, 674-679	3.2	4
34	Prediction of 3D small fatigue crack propagation in shot-peened specimens. *Computational Materials Science*, **2009**, 46, 566-571	3.2	12

33	Ratcheting and fatigue properties of the high-nitrogen steel X13CrMnMoN18-14-3 under cyclic loading. *Computational Materials Science*, **2009**, 46, 572-578	3.2	29
32	Nonlocal damage modelling using the element-free Galerkin method in the frame of finite strains. *Computational Materials Science*, **2009**, 46, 660-666	3.2	10
31	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	3.2	45
30	Identification of material parameters of micropolar theory for composites by homogenization method. *Computational Materials Science*, **2009**, 46, 733-737	3.2	10
29	Applications of meshless methods for damage computations with finite strains. *Modelling and Simulation in Materials Science and Engineering*, **2009**, 17, 045005	2	5
28	Computational fracture mechanics assessment of adhesive joints. *Computational Materials Science*, **2008**, 43, 146-156	3.2	18
27	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
26	On overall properties of micro-polar composites with interface effects. *Proceedings in Applied Mathematics and Mechanics*, **2008**, 8, 10579-10580	0.2	1
25	Comparison of computational predictions of material failure using nonlocal damage models. *International Journal of Solids and Structures*, **2004**, 41, 1021-1037	3.1	8
24	Size-dependent fracture energy correlated with the crack tip stress fields in concrete-like materials **2004**, 423-434		
23	Computational analysis of thin coating layer failure using a cohesive model and gradient plasticity. *Engineering Fracture Mechanics*, **2003**, 70, 1929-1942	4.2	22
22	Investigations of size effects in tensile tests based on a nonlocal micro-mechanical damage model. *Computational Materials Science*, **2003**, 26, 230-243	3.2	24
21	A micro-mechanical damage model based on gradient plasticity: algorithms and applications. *International Journal for Numerical Methods in Engineering*, **2002**, 54, 399-420	2.4	28
20	The role of intrinsic material length scales in micro-indentation simulations. *Computational Materials Science*, **2002**, 25, 253-263	3.2	15
19	Numerical Assessments of Cracks in Elastic-Plastic Materials **2002**,		3
18	Identification of the intrinsic material length in gradient plasticity theory from micro-indentation tests. *International Journal of Solids and Structures*, **2001**, 38, 8171-8187	3.1	56
17	Effects of temperature gradients on crack characterisation under thermal-mechanical loading conditions. *International Journal of Fracture*, **2000**, 100, 355-377	2.3	6
16	Analysis of size effects based on a symmetric lower-order gradient plasticity model. *Computational Materials Science*, **2000**, 19, 143-157	3.2	21

15	Quantification of constraint effects in elastic-plastic crack front fields. *Journal of the Mechanics and Physics of Solids*, **1998**, 46, 219-241	5	81
14	Dynamic crack growth along an elastoplastic bimaterial interface. *Acta Mechanica*, **1997**, 121, 51-77	2.1	2
13	Verification of a Cohesive Zone Model for Ductile Fracture. *Journal of Engineering Materials and Technology, Transactions of the ASME*, **1996**, 118, 192-200	1.8	57
12	Singular stress fields at V-notch tips in elastoplastic pressure-sensitive materials. *Acta Mechanica*, **1996**, 118, 151-170	2.1	3
11	Quantifications of crack constraint effects in an austenitic steel. *International Journal of Fracture*, **1995**, 71, 273-291	2.3	14
10	Elastoplastic crack analysis for pressure-sensitive dilatant materials-Part II: Interface cracks. *International Journal of Fracture*, **1995**, 69, 167-187	2.3	10
9	Plane stress near-tip field analysis of steady-state crack growth along a linear-hardening elastic-plastic interface. *Acta Mechanica*, **1995**, 109, 207-226	2.1	1
8	Analysis of elastoplastic sharp notches. *International Journal of Fracture*, **1994**, 67, 187-216	2.3	19
7	A perturbation analysis of combined mode I and III dynamic crack propagation. *Acta Mechanica*, **1994**, 104, 27-63	2.1	6
6	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	2.3	22
5	On the J-integral concept for elastic-plastic crack extension. *Nuclear Engineering and Design*, **1991**, 131, 157-173	1.8	18
4	Notes on plastic reloading zone in the asymptotic analysis of elastic-plastic crack extension. *Archive of Applied Mechanics*, **1991**, 61, 471-478	2.2	2
3	Numerical investigations on the significance of for large stable crack growth. *Engineering Fracture Mechanics*, **1989**, 32, 459-468	4.2	38
2	Asymptotic Analysis of Steady-State Crack Extension of Combined Modes I and III in Elastic-Plastic Materials with Linear Hardening185-185-23		3
1	Experimental and Computational Investigations on Fretting Fatigue Crack Growth in Dovetail Joints. *AIAA Journal*,1-13	2.1	0