Junjie Yang

List of Publications by Year
in descending order

87 papers	1,914 citations	257450 24 h-index	276875 41 g-index
92 all docs	92 docs citations	92 times ranked	971 citing authors

#	Article	IF	Citations
1	Introduction to carbon nanotube and nanofiber smart materials. Composites Part B: Engineering, 2006, 37, 382-394.	12.0	348
2	Effect of frequency and environment on fatigue behavior of a CVI SiC/SiC ceramic matrix composite at 1200Â°C. Composites Science and Technology, 2011, 71, 190-196.	7.8	106
3	The Influence of Test Temperature on the Ratchetting Behavior of Type 304 Stainless Steel. Journal of Engineering Materials and Technology, Transactions of the ASME, 1989, 111, 378-383.	1.4	65
4	Fatigue behavior of an advanced SiC/SiC ceramic composite with a self-healing matrix at 1300Â°C in air and in steam. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 677, 438-445.	5.6	59
5	Fatigue behavior of a Hi-Nicalonâ„¢/SiCâ€"B4C composite at 1200Â°C in air and in steam. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 534, 119-128.	5.6	57
6	The interaction of cyclic hardening and ratchetting for AISI type 304 stainless steel at room temperatureâ€"I. Experiments. Journal of the Mechanics and Physics of Solids, 1990, 38, 575-585.	4.8	56
7	Effects of steam environment on high-temperature mechanical behavior of NextelTM720/alumina (N720/A) continuous fiber ceramic composite. Composites Part A: Applied Science and Manufacturing, 2006, 37, 2029-2040.	7.6	55
8	Creep and microstructure of Nextelâ„¢ 720 fiber at elevated temperature in air and in steam. Acta Materialia, 2013, 61, 6114-6124.	7.9	55
9	Tensionâ€"compression fatigue of a SiC/SiC ceramic matrix composite at 1200Â°C in air and in steam. International Journal of Fatigue, 2013, 47, 154-160.	5.7	55
10	Fatigue of three advanced SiC/SiC ceramic matrix composites at 1200Â°C in air and in steam. International Journal of Applied Ceramic Technology, 2018, 15, 3-15.	2.1	47
11	Influence of hold times on the elevated-temperature fatigue behavior of an oxideâ€"oxide ceramic composite in air and in steam environmentâ˜†. Composites Science and Technology, 2007, 67, 1425-1438.	7.8	46
12	Tension-compression fatigue of an oxide/oxide ceramic composite at elevated temperature. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 659, 270-277.	5.6	38
13	Effects of environment on creep behavior of two oxide/oxide ceramicâ€"matrix composites at 1200ÂÂ°C. Journal of Materials Science, 2008, 43, 6734-6746.	3.7	37
14	Effects of steam environment on creep behavior of Nextelâ„¢720/alumina ceramic composite at elevated temperature. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 497, 101-110.	5.6	37
15	Durability-based design criteria for a chopped-glass-fiber automotive structural composite. Composites Science and Technology, 2001, 61, 1083-1095.	7.8	35
16	Effects of frequency and environment on fatigue behavior of an oxideâ€"oxide ceramic composite at 1200Â°C. International Journal of Fatigue, 2008, 30, 502-516.	5.7	34
17	Creep behavior of NextelTM610/Monazite/Alumina composite at elevated temperatures. Composites Science and Technology, 2006, 66, 2089-2099.	7.8	33
18	Creep behavior of Nextelâ„¢720/alumina ceramic composite with Â±45Â° fiber orientation at 1200Â°C. Composites Science and Technology, 2008, 68, 1588-1595.	7.8	32

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19	Creep of Nextelâ„¢720/aluminaâ€“mullite ceramic composite at 1200Â°C in air, argon, and steamâ˜†. Composites Science and Technology, 2009, 69, 663-669.	7.8	32
20	Creep of Nextel^{â„¢} 610 Fiber at 1100Â°C in Air and in Steam. International Journal of Applied Ceramic Technology, 2013, 10, 276-284.	2.1	32
21	Effects of Steam Environment on Fatigue Behavior of Two SiC/[SiC+Si3N4] Ceramic Composites at 1300Â°C. Applied Composite Materials, 2011, 18, 385-396.	2.5	30
22	Creep behavior in interlaminar shear of Nextelâ„¢720/alumina ceramic composite at elevated temperature in air and in steamâ˜†. Composites Science and Technology, 2008, 68, 2260-2266.	7.8	28
23	Creep mechanisms and microstructure evolution of Nextelâ„¢ 610 fiber in air and steam. Journal of the European Ceramic Society, 2014, 34, 2413-2426.	5.7	28
24	Effects of steam environment on creep behavior of Nextelâ„¢720/aluminaâ€“mullite ceramic composite at elevated temperature. Composites Part A: Applied Science and Manufacturing, 2010, 41, 1807-1816.	7.6	25
25	Notch Sensitivity of Fatigue Behavior of a Hi-Nicalonâ„¢/SiC-B4C Composite at 1,200ÂÂ°C in Air and in Steam. Applied Composite Materials, 2013, 20, 891-905.	2.5	25
26	Elastic-plastic analysis of small defectsâ€"voids and inclusions. Engineering Fracture Mechanics, 1984, 20, 1-10.	4.3	24
27	Effects of Steam Environment on Creep Behavior of Nextelâ„¢610/Monazite/Alumina Composite at 1,100Â°C. Applied Composite Materials, 2009, 16, 379-392.	2.5	24
28	Creep behavior of Nextelâ„¢720/aluminaâ€“mullite ceramic composite with Â±45Â° fiber orientation at 1200Â°C. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 5326-5334.	5.6	23
29	Flaw Assessment Procedure for High-Temperature Reactor Components. Journal of Pressure Vessel Technology, Transactions of the ASME, 1992, 114, 166-170.	0.6	22
30	Low-energy impact effects on candidate automotive structural composites. Composites Science and Technology, 2003, 63, 755-769.	7.8	21
31	Compressive creep behavior of an oxideâ€“oxide ceramic composite with monazite fiber coating at elevated temperatures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 454-455, 590-601.	5.6	21
32	Effects of steam environment on compressive creep behavior of Nextelâ„¢720/Alumina ceramic composite at 1200Â°C. Composites Part A: Applied Science and Manufacturing, 2008, 39, 1829-1837.	7.6	21
33	The interaction of cyclic hardening and ratchetting for AISI type 304 stainless steel at room temperatureâ€"II. Modeling with the viscoplasticity theory based on overstress. Journal of the Mechanics and Physics of Solids, 1990, 38, 587-597.	4.8	20
34	Strain Rate Dependence and Short-Term Relaxation Behavior of a Thermoset Polymer at Elevated Temperature: Experiment and Modeling. Journal of Pressure Vessel Technology, Transactions of the ASME, 2009, 131, .	0.6	20
35	The rate (time)-dependent mechanical behavior of the PMR-15 thermoset polymer at elevated temperature. Polymer Testing, 2008, 27, 908-914.	4.8	19
36	Creep of Polymer Matrix Composites. I: Norton/Bailey Creep Law for Transverse Isotropy. Journal of Engineering Mechanics - ASCE, 2003, 129, 310-317.	2.9	18

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37	Investigation of long-term thermal aging-induced damage in oxide/oxide ceramic matrix composites. Journal of the European Ceramic Society, 2020, 40, 1549-1556.	5.7	18
38	Effect of loading rate on the monotonic tensile behavior and tensile strength of an oxideâ€"oxide ceramic composite at 1200Â°C. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 492, 88-94.	5.6	15
39	Rate Dependence and Short-Term Creep Behavior of a Thermoset Polymer at Elevated Temperature. Journal of Pressure Vessel Technology, Transactions of the ASME, 2009, 131, .	0.6	15
40	Effects of prior aging at 288Â°C in air and in argon environments on creep response of PMR-15 neat resin. Journal of Applied Polymer Science, 2009, 111, 228-236.	2.6	14
41	Creep of polycrystalline yttrium aluminum garnet (YAG) at elevated temperature in air and in steam. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 589, 125-131.	5.6	14
42	Creep behavior in interlaminar shear of a Hi-Nicalonâ„¢/SiCâ€"B4C composite at 1200 Â°C in air and in steam. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 610, 279-289.	5.6	14
43	The rate-dependent mechanical behavior of modified 9wt.%Cr-1wt.%Mo steel at 538 Â°C. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1994, 186, 15-21.	5.6	13
44	Creep Behavior in Interlaminar Shear of a SiC/SiC Ceramic Composite with a Self-healing Matrix. Applied Composite Materials, 2014, 21, 213-225.	2.5	13
45	Fatigue of a 3D Orthogonal Non-crimp Woven Polymer Matrix Composite at Elevated Temperature. Applied Composite Materials, 2017, 24, 1405-1424.	2.5	13
46	Tension-Compression Fatigue of a Nextelâ„¢720/alumina Composite at 1200ÂÂ°C in Air and in Steam. Applied Composite Materials, 2016, 23, 707-717.	2.5	11
47	Cyclic creep and recovery behavior of Nextelâ„¢720/alumina ceramic composite at 1200Â°C. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 1848-1856.	5.6	10
48	Static fatigue of Hiâ€Nicalonâ„¢â€S fiber at elevated temperature in air, steam, and silicic acidâ€saturated steam. Journal of the American Ceramic Society, 2020, 103, 1358-1371.	3.8	10
49	Fully-reversed tension-compression fatigue of 2D and 3D woven polymer matrix composites at elevated temperature. Polymer Testing, 2021, 97, 107179.	4.8	10
50	Elastic-Plastic Analyses of Surface Flaws in a Reactor Vessel. Journal of Pressure Vessel Technology, Transactions of the ASME, 1984, 106, 247-254.	0.6	9
51	Rate Sensitivity and Short-Term Relaxation Behavior of AISI Type 304 Stainless Steel at Room Temperature and at 650Â°C; Influence of Prior Aging. Journal of Pressure Vessel Technology, Transactions of the ASME, 1991, 113, 385-391.	0.6	9
52	Short-term static and cyclic behavior of two automotive carbon-fiber composites. Composites Part A: Applied Science and Manufacturing, 2003, 34, 731-741.	7.6	9
53	Fatigue of unitized polymer/ceramic matrix composites with 2D and 3D fiber architecture at elevated temperature. Polymer Testing, 2018, 72, 244-256.	4.8	9
54	Fatigue of a SiC/SiC ceramic composite with an ytterbiumâ€disilicate environmental barrier coating at elevated temperature*. International Journal of Applied Ceramic Technology, 2020, 17, 2074-2082.	2.1	9

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55	Creep of Polymer Matrix Composites. II: Monkman-Grant Failure Relationship for Transverse Isotropy. Journal of Engineering Mechanics - ASCE, 2003, 129, 318-323.	2.9	8
56	Some aspects of the mechanical response of BMI 5250â€4 neat resin at 191Â°C: Experiment and modeling. Journal of Applied Polymer Science, 2008, 107, 1378-1386.	2.6	8
57	Creep in Interlaminar Shear of a Nextel^{â„¢}720/aluminosilicate Composite at 1100Â°C in Air and in Steam. International Journal of Applied Ceramic Technology, 2015, 12, 473-480.	2.1	7
58	Subcritical crack growth models for static fatigue of Hiâ€Nicalon^{TM}â€S SiC fiber in air and steam. Journal of the American Ceramic Society, 2021, 104, 3562-3592.	3.8	7
59	Creep in interlaminar shear of an Hi-Nicalonâ„¢/SiCâ€"B4C composite at 1300â„ƒ in air and in steam. Journal of Composite Materials, 2020, 54, 1819-1829.	2.4	5
60	Experimental investigation of uniaxial and biaxial rate-dependent behavior of a discontinuous metal-matrix composite at 538 Â°C. Composites Science and Technology, 1997, 57, 307-318.	7.8	4
61	Creep in Interlaminar Shear of an Oxide/Oxide Ceramic-Matrix Composite at Elevated Temperature1. Journal of Engineering for Gas Turbines and Power, 2016, 138, .	1.1	4
62	Fatigue of a 2D unitized polymer/ceramic matrix composite at elevated temperature. Polymer Testing, 2016, 54, 203-213.	4.8	4
63	Creep of a Nextelâ„¢720/alumina ceramic composite containing an array of small holes at 1200Â°C in air and in steam. International Journal of Applied Ceramic Technology, 2019, 16, 3-13.	2.1	4
64	Tension-Compression Fatigue of a SiC/SiC Ceramic Matrix Composite at Elevated Temperature. Journal of Engineering for Gas Turbines and Power, 2012, 134, .	1.1	3
65	The Rate (Time)-Dependent Mechanical Behavior of the PMR-15 Thermoset Polymer at Temperatures in the 274â€"316â€‰Â°C Range: Experiments and Modeling. Journal of Pressure Vessel Technology, Transactions of the ASME, 2012, 134, .	0.6	3
66	Thermo-chemical compatibility of hafnium diboride with yttrium aluminum garnet at 1500Â°C in air. Journal of the European Ceramic Society, 2015, 35, 2437-2444.	5.7	3
67	The Rate (Time)-Dependent Mechanical Behavior of the PMR-15 Thermoset Polymer at 316Â°C: Experiments and Modeling. Journal of Pressure Vessel Technology, Transactions of the ASME, 2010, 132, .	0.6	2
68	Effects of prior aging at 288Â°C in argon environment on timeâ€dependent deformation behavior of a thermoset polymer at elevated temperature, part 1: Experiments. Journal of Applied Polymer Science, 2009, 114, 2956-2962.	2.6	1
69	Effects of prior aging at 288Â°C in argon environment on timeâ€dependent deformation behavior of a thermoset polymer at elevated temperature, Part 2: Modeling with viscoplasticity theory based on overstress. Journal of Applied Polymer Science, 2009, 114, 3389-3395.	2.6	1
70	Tensionâ€"Compression Fatigue of a SiC/SiC Ceramic Matrix Composite at Elevated Temperature. , 2012, , .		1
71	5.7 Mechanical Behavior of Oxideâ€"Oxide Fiber-Reinforced CMCs at Elevated Temperature: Environmental Effects. , 2018, , 174-236.		1
72	To drill or not to drill? Creep of an oxideâ€oxide composite with diamondâ€drilled effusion holes at elevated temperature. International Journal of Applied Ceramic Technology, 0, , .	2.1	1

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73	Strain Rate Dependence and Short-Term Relaxation Behavior of a Thermoset Polymer at Elevated Temperature: Experiment and Modeling. , 2008, , .		0
74	Effects of Environment on Creep Behavior of NextelTM 720/Alumina-Mullite Ceramic Composite at 1200Â°C. Ceramic Transactions, 2009, , 193-203.	0.1	0
75	The Rate (Time)â€"Dependent Mechanical Behavior of the PMR-15 Thermoset Polymer at Temperatures in the 274â€"316 Â°C Range: Experiments and Modeling. , 2011, , .		0
76	Creep in Interlaminar Shear of a SiC/SiC Ceramic Matrix Composite at Elevated Temperature. , 2014, , .		0
77	Computational Viscoplasticity Based on Overstress (CVBO) Model. International Journal for Computational Methods in Engineering Science and Mechanics, 2014, 15, 142-157.	2.1	0
78	Mechanical Properties and Fatigue Behavior of 2D and 3D Woven PMC Airframe Structures at Elevated Temperature. , 2015, , .		0
79	Creep in Interlaminar Shear of an Oxide/Oxide Ceramic Matrix Composite at Elevated Temperature. , 2015, , .		0
80	Effects of environment on creep behavior of three oxideâ€"oxide ceramic matrix composites atÂ1200Â°C. , 2015, , 315-340.		0
81	Creep behavior in interlaminar shear of a Hi-NicalonTM/ SiC-B4C composite at 1200â˜C in air and in steam. MATEC Web of Conferences, 2015, 29, 00006.	0.2	0
82	Mechanical Properties and Fatigue Behavior of 2D Woven PMC and Unitized Composite Airframe Structures at Elevated Temperature. , 2016, , .		0
83	Fatigue of 2D and 3D Carbon-Fiber-Reinforced Polymer Matrix Composites and of a Unitized Polymer/Ceramic Matrix Composite at Elevated Temperature. , 2017, , 873-907.		0
84	Testing Advanced SiC Fiber Tows at Elevated Temperature in Silicic Acid-Saturated Steam. , 2017, , .		0
85	Fatigue of Advanced SiC/SiC Ceramic Matrix Composites at Elevated Temperature in Air and in Steam. , 2018, , .		0
86	Creep Behavior of Nextelâ„¢ 610/Monazite/Alumina Composite at Elevated Temperatures. , 2005, , .		0
87	Effects of Temperature and Steam Environment on Creep Behavior of an Oxide-Oxide Ceramic Composite. Ceramic Engineering and Science Proceedings, 0, , 151-166.	0.1	0