

# Xu Chen

## List of Publications by Year in descending order

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258  
papers

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citations

61977

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all docs

259  
docs citations

259  
times ranked

3029  
citing authors

#	ARTICLE	IF	CITATIONS
1	Low-Temperature Sintering with Nano-Silver Paste in Die-Attached Interconnection. Journal of Electronic Materials, 2007, 36, 1333-1340.	2.2	297
2	On the Ohno-Wang kinematic hardening rules for multiaxial ratcheting modeling of medium carbon steel. International Journal of Plasticity, 2005, 21, 161-184.	8.8	223
3	Low-Temperature Sintering of Nanoscale Silver Paste for Attaching Large-Area $\{>100\text{-}\mu\text{m}\}$ Tj ETQq1 1 0.784314 rgBT /Overlock 200	1.3	200
4	Moisture sorption-desorption-resorption characteristics and its effect on the mechanical behavior of the epoxy system. Polymer, 2005, 46, 11994-12003.	3.8	194
5	Modified kinematic hardening rule for multiaxial ratcheting prediction. International Journal of Plasticity, 2004, 20, 871-898.	8.8	192
6	A critical plane-strain energy density criterion for multiaxial low-cycle fatigue life under non-proportional loading. Fatigue and Fracture of Engineering Materials and Structures, 1999, 22, 679-686.	3.4	151
7	Applying Anand model to low-temperature sintered nanoscale silver paste chip attachment. Materials & Design, 2009, 30, 4574-4579.	5.1	137
8	Low cycle fatigue and creep-fatigue interaction behavior of nickel-base superalloy GH4169 at elevated temperature of 650 Å°C. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 655, 175-182.	5.6	124
9	Estimation methods for fatigue properties of steels under axial and torsional loading. International Journal of Fatigue, 2002, 24, 783-793.	5.7	102
10	Investigation of moisture diffusion in epoxy system: Experiments and molecular dynamics simulations. Chemical Physics Letters, 2005, 412, 322-326.	2.6	100
11	Effects of hygrothermal aging on epoxy-based anisotropic conductive film. Materials Letters, 2006, 60, 2958-2963.	2.6	91
12	Recent progresses in experimental investigation and finite element analysis of ratcheting in pressurized piping. International Journal of Pressure Vessels and Piping, 2013, 101, 113-142.	2.6	87
13	Prediction of stress-strain relationship with an improved Anand constitutive Model For lead-free solder Sn-3.5Ag. IEEE Transactions on Components and Packaging Technologies, 2005, 28, 111-116.	1.3	86
14	Ratcheting behavior of PTFE under cyclic compression. Polymer Testing, 2005, 24, 829-833.	4.8	80
15	Simulation of uniaxial tensile properties for lead-free solders with modified Anand model. Materials & Design, 2009, 30, 122-128.	5.1	80
16	Effect of mean stress and ratcheting strain on the low cycle fatigue behavior of a wrought 316LN stainless steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 677, 193-202.	5.6	79
17	Evaluation of multiaxial fatigue criteria under irregular loading. International Journal of Fatigue, 2002, 24, 913-922.	5.7	76
18	Visco-plastic constitutive modeling on Ohno-Wang kinematic hardening rule for uniaxial ratcheting behavior of Z2CND18.12N steel. International Journal of Plasticity, 2012, 28, 88-101.	8.8	76

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19	LOW-CYCLE FATIGUE UNDER NON-PROPORTIONAL LOADING. Fatigue and Fracture of Engineering Materials and Structures, 1996, 19, 839-854.	3.4	75
20	Multiaxial ratcheting behavior of PTFE at room temperature. Polymer Testing, 2009, 28, 288-295.	4.8	74
21	A new unified constitutive model with short- and long-range back stress for lead-free solders of Sn-3Ag-0.5Cu and Sn-0.7Cu. International Journal of Plasticity, 2009, 25, 2181-2203.	8.8	73
22	Creep properties of low-temperature sintered nano-silver lap shear joints. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 579, 108-113.	5.6	69
23	Tensile Behaviors and Ratcheting Effects of Partially Sintered Chip-Attachment Films of a Nanoscale Silver Paste. Journal of Electronic Materials, 2008, 37, 1574-1579.	2.2	65
24	Ratcheting Study of Pressurized Elbows Subjected to Reversed In-Plane Bending. Journal of Pressure Vessel Technology, Transactions of the ASME, 2006, 128, 525-532.	0.6	62
25	Fracture toughness of the materials in welded joint of X80 pipeline steel. Engineering Fracture Mechanics, 2015, 148, 337-349.	4.3	60
26	Uniaxial ratcheting and fatigue behaviors of low-temperature sintered nano-scale silver paste at room and high temperatures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 6714-6722.	5.6	59
27	Uniaxial ratcheting behavior of polytetrafluoroethylene at elevated temperature. Polymer Testing, 2010, 29, 352-357.	4.8	59
28	Low-cycle fatigue of 1Cr-18Ni-9Ti stainless steel and related weld metal under axial, torsional and 90° out-of-phase loading. Fatigue and Fracture of Engineering Materials and Structures, 2004, 27, 439-448.	3.4	58
29	Applying viscoplastic constitutive models to predict ratcheting behavior of sintered nanosilver lap-shear joint. Mechanics of Materials, 2014, 72, 61-71.	3.2	58
30	Transient Thermal Performance of IGBT Power Modules Attached by Low-Temperature Sintered Nanosilver. IEEE Transactions on Device and Materials Reliability, 2012, 12, 124-132.	2.0	57
31	Uniaxial ratcheting behavior of 63Sn37Pb solder with loading histories and stress rates. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 421, 238-244.	5.6	54
32	Thermo-viscoplastic modeling incorporating dynamic strain aging effect on the uniaxial behavior of Z2CND18.12N stainless steel. International Journal of Plasticity, 2012, 37, 119-139.	8.8	54
33	Fatigue-creep behavior of 1.25Cr0.5Mo steel at high temperature and its life prediction. International Journal of Fatigue, 2007, 29, 1174-1183.	5.7	53
34	Mechanical deformation behavior and mechanism of Sn-58Bi solder alloys under different temperatures and strain rates. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 662, 251-257.	5.6	52
35	Migration of Sintered Nanosilver Die-Attach Material on Alumina Substrate Between 250 °C and 400 °C in Dry Air. IEEE Transactions on Device and Materials Reliability, 2011, 11, 316-322.	2.0	51
36	Study on the curing process and shearing tests of die attachment by Ag-epoxy electrically conductive adhesive. International Journal of Adhesion and Adhesives, 2010, 30, 80-88.	2.9	50

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37	High-Temperature Creep Behavior of Low-Temperature-Sintered Nano-Silver Paste Films. <i>Journal of Electronic Materials</i> , 2012, 41, 782-790.	2.2	50
38	Enhanced ductility in harmonic structure designed SUS316L produced by high energy ball milling and hot isostatic sintering. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 674, 212-220.	5.6	50
39	Experimental study on ratcheting behavior of eutectic tin-lead solder under multiaxial loading. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005, 406, 86-94.	5.6	46
40	Ratcheting strain and simulation of 16MnR steel under uniaxial cyclic loading. <i>Computational Materials Science</i> , 2012, 57, 43-47.	3.0	46
41	Uniaxial ratcheting behavior of Zircaloy-4 tubes at room temperature. <i>Materials &amp; Design</i> , 2013, 46, 426-434.	5.1	46
42	Machine learning-based genetic feature identification and fatigue life prediction. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021, 44, 2524-2537.	3.4	46
43	Simplification of Low-Temperature Sintering Nanosilver for Power Electronics Packaging. <i>Journal of Electronic Materials</i> , 2013, 42, 1209-1218.	2.2	45
44	Ratchetting and ratchetting boundary study of pressurized straight low carbon steel pipe under reversed bending. <i>International Journal of Pressure Vessels and Piping</i> , 2006, 83, 96-106.	2.6	44
45	A simple constitutive model for cyclic compressive ratchetting deformation of polytetrafluoroethylene (PTFE) with stress rate effects. <i>Polymer Engineering and Science</i> , 2008, 48, 29-36.	3.1	43
46	Revealing the cyclic hardening mechanism of an austenitic stainless steel by real-time in situ neutron diffraction. <i>Scripta Materialia</i> , 2014, 89, 45-48.	5.2	43
47	Effects of different bonding parameters on the electrical performance and peeling strengths of ACF interconnection. <i>Microelectronics Reliability</i> , 2006, 46, 774-785.	1.7	42
48	Low cycle fatigue life prediction of 63Sn-37Pb solder under proportional and non-proportional loading. <i>International Journal of Fatigue</i> , 2006, 28, 757-766.	5.7	41
49	High temperature ratcheting behavior of nano-silver paste sintered lap shear joint under cyclic shear force. <i>Microelectronics Reliability</i> , 2013, 53, 174-181.	1.7	40
50	Rapid Sintering Nanosilver Joint by Pulse Current for Power Electronics Packaging. <i>IEEE Transactions on Device and Materials Reliability</i> , 2013, 13, 258-265.	2.0	39
51	Ratcheting behavior of pressurized elbow pipe with local wall thinning. <i>International Journal of Pressure Vessels and Piping</i> , 2013, 102-103, 14-23.	2.6	39
52	Cyclic deformation of 316L stainless steel and constitutive modeling under non-proportional variable loading path. <i>International Journal of Plasticity</i> , 2019, 120, 127-146.	8.8	39
53	Cyclic multiaxial and shear finite deformation response of OFHC: Part I, experimental results. <i>International Journal of Plasticity</i> , 2007, 23, 1285-1306.	8.8	38
54	Effects of pre-strain on uniaxial ratcheting and fatigue failure of Z2CN18.10 austenitic stainless steel. <i>International Journal of Fatigue</i> , 2013, 52, 106-113.	5.7	38

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55	Mechanical properties of Nafion 212 proton exchange membrane subjected to hydrothermal aging. <i>Journal of Power Sources</i> , 2013, 238, 318-323.	7.8	38
56	Fatigue and dwell-fatigue behavior of nano-silver sintered lap-shear joint at elevated temperature. <i>Microelectronics Reliability</i> , 2014, 54, 648-653.	1.7	38
57	Microcrack initiation mechanisms of 316LN austenitic stainless steel under in-phase thermomechanical fatigue loading. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 752, 1-14.	5.6	38
58	Pits formation and stress corrosion cracking behavior of Q345R in hydrofluoric acid. <i>Corrosion Science</i> , 2020, 166, 108443.	6.6	38
59	Investigation of the effect of hydrothermal conditions on epoxy system by fractography and computer simulation. <i>Materials Letters</i> , 2005, 59, 3831-3836.	2.6	36
60	Effect of Oxygen Partial Pressure on Silver Migration of Low-Temperature Sintered Nanosilver Die-Attach Material. <i>IEEE Transactions on Device and Materials Reliability</i> , 2011, 11, 312-315.	2.0	36
61	Effect of joint sizes of low-temperature sintered nano-silver on thermal residual curvature of sandwiched assembly. <i>International Journal of Adhesion and Adhesives</i> , 2012, 35, 88-93.	2.9	36
62	Damage analysis of low-cycle fatigue under non-proportional loading. <i>International Journal of Fatigue</i> , 1994, 16, 221-225.	5.7	35
63	Effect of interconnection area on shear strength of sintered joint with nano-silver paste. <i>Soldering and Surface Mount Technology</i> , 2008, 20, 8-12.	1.5	35
64	A comparison between fracture toughness at different locations of longitudinal submerged arc welded and spiral submerged arc welded joints of API X80 pipeline steels. <i>Engineering Fracture Mechanics</i> , 2015, 148, 110-121.	4.3	35
65	Microstructure evolution and enhanced mechanical properties in SUS316LN steel processed by high pressure torsion at room temperature. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 711, 476-483.	5.6	35
66	Simulation of ratcheting strain to a high number of cycles under biaxial loading. <i>International Journal of Solids and Structures</i> , 2003, 40, 7449-7461.	2.7	34
67	Effect of axial ratcheting deformation on torsional low cycle fatigue life of lead-free solder Sn-3.5Ag. <i>International Journal of Fatigue</i> , 2009, 31, 276-283.	5.7	34
68	Reliability comparison between SAC305 joint and sintered nanosilver joint at high temperatures for power electronic packaging. <i>Journal of Materials Processing Technology</i> , 2014, 214, 1900-1908.	6.3	34
69	Cyclic deformation and cracking behavior of 316LN stainless steel under thermomechanical and isothermal fatigue loadings. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 773, 138866.	5.6	34
70	Cyclic deformation behavior and dynamic strain aging of 316LN stainless steel under low cycle fatigue loadings at 550°C. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 818, 141411.	5.6	34
71	Ratcheting and fatigue properties of the high-nitrogen steel X13CrMnMoN18-14-3 under cyclic loading. <i>Computational Materials Science</i> , 2009, 46, 572-578.	3.0	32
72	Uniaxial ratcheting behavior of anisotropic conductive adhesive film at elevated temperature. <i>Polymer Testing</i> , 2011, 30, 571-577.	4.8	32

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73	Shrinkage and Sintering Behavior of a Low-Temperature Sinterable Nanosilver Die-Attach Paste. <i>Journal of Electronic Materials</i> , 2012, 41, 2543-2552.	2.2	32
74	Effects of hygrothermal aging on anisotropic conductive adhesive joints: experiments and theoretical analysis. <i>Journal of Adhesion Science and Technology</i> , 2006, 20, 1383-1399.	2.6	31
75	Mechanical property evaluation of nano-silver paste sintered joint using lap-shear test. <i>Soldering and Surface Mount Technology</i> , 2012, 24, 120-126.	1.5	31
76	Pressure-Assisted Low-Temperature Sintering of Nanosilver Paste for 5mm <sup>2</sup> Chip Attachment. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2012, 2, 1759-1767.	2.5	31
77	Uniaxial ratcheting behavior of sintered nanosilver joint for electronic packaging. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 591, 121-129.	5.6	30
78	Manipulating the powder size to achieve enhanced strength and ductility in harmonic structured Al alloy. <i>Materials Research Letters</i> , 2019, 7, 217-224.	8.7	30
79	Effects of elemental composition and microstructure inhomogeneity on the corrosion behavior of nickel-based alloys in hydrofluoric acid solution. <i>Corrosion Science</i> , 2020, 176, 108917.	6.6	30
80	Uniaxial ratchetting behavior of vulcanized natural rubber. <i>Polymer Engineering and Science</i> , 2008, 48, 191-197.	3.1	29
81	Uniaxial ratcheting behaviors of Zircaloy-4 tubes at 400 °C. <i>Journal of Nuclear Materials</i> , 2015, 458, 129-137.	2.7	29
82	Ratcheting and low-cycle fatigue characterizations of extruded AZ31B Mg alloy with and without corrosive environment. <i>International Journal of Fatigue</i> , 2015, 80, 364-371.	5.7	29
83	The effects of in-plane and out-of-plane constraints on J-R curves for X80 steel: A study using clamped SENT specimens. <i>Engineering Fracture Mechanics</i> , 2019, 206, 342-358.	4.3	29
84	Fatigue crack propagation behavior of fuel cell membranes after chemical degradation. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 27653-27664.	7.1	29
85	Ferrite formation and its effect on deformation mechanism of wire arc additive manufactured 308L stainless steel. <i>Journal of Nuclear Materials</i> , 2021, 550, 152933.	2.7	29
86	A new cyclical generative adversarial network based data augmentation method for multiaxial fatigue life prediction. <i>International Journal of Fatigue</i> , 2022, 162, 106996.	5.7	29
87	Determination of ductile fracture properties of 16MND5 steels under varying constraint levels using machine learning methods. <i>International Journal of Mechanical Sciences</i> , 2022, 224, 107331.	6.7	29
88	A weight function-critical plane approach for low-cycle fatigue under variable amplitude multiaxial loading. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2006, 29, 331-339.	3.4	28
89	Experimental study on multiaxial ratcheting behavior of vulcanized natural rubber. <i>Polymer Engineering and Science</i> , 2009, 49, 506-513.	3.1	28
90	Characterization and Reliability of Sintered Nanosilver Joints by a Rapid Current-Assisted Method for Power Electronics Packaging. <i>IEEE Transactions on Device and Materials Reliability</i> , 2014, 14, 262-267.	2.0	28

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91	Thermo-Mechanical Reliability of Double-Sided IGBT Assembly Bonded by Sintered Nanosilver. IEEE Transactions on Device and Materials Reliability, 2014, 14, 194-202.	2.0	28
92	Fatigue behavior of a harmonic structure designed austenitic stainless steel under uniaxial stress loading. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 707, 287-294.	5.6	28
93	Exploring the role of reinforcement in controlling fatigue crack propagation behavior of perfluorosulfonic-acid membranes. International Journal of Hydrogen Energy, 2018, 43, 6379-6389.	7.1	28
94	Constitutive and damage model for 63Sn37Pb solder under uniaxial and torsional cyclic loading. International Journal of Solids and Structures, 2006, 43, 3596-3612.	2.7	27
95	Reliability of High-Power Light Emitting Diode Attached With Different Thermal Interface Materials. Journal of Electronic Packaging, Transactions of the ASME, 2010, 132, .	1.8	27
96	Mechanism of Migration of Sintered Nanosilver at High Temperatures in Dry Air for Electronic Packaging. IEEE Transactions on Device and Materials Reliability, 2014, 14, 311-317.	2.0	27
97	Effect of thermal aging on the low cycle fatigue behavior of Z3CN20.09M cast duplex stainless steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 646, 263-271.	5.6	27
98	Martensitic transformation of an austenitic stainless steel under non-proportional cyclic loading. International Journal of Fatigue, 2019, 124, 338-347.	5.7	27
99	Fatigue life prediction of vulcanized natural rubber under proportional and non-proportional loading. Fatigue and Fracture of Engineering Materials and Structures, 2008, 31, 38-48.	3.4	26
100	Reliability of Anisotropic Conductive Adhesive Joints in Electronic Packaging Applications. Journal of Adhesion Science and Technology, 2008, 22, 1631-1657.	2.6	26
101	Shear strength of anisotropic conductive adhesive joints under hygrothermal aging and thermal cycling. International Journal of Adhesion and Adhesives, 2012, 33, 75-79.	2.9	26
102	Fracture mechanics analysis of the effect of substrate flexibility on solder joint reliability. Engineering Fracture Mechanics, 2005, 72, 2628-2646.	4.3	25
103	Phase-specific deformation behavior of a NiAl-Cr(Mo) lamellar composite under thermal and mechanical loads. Journal of Alloys and Compounds, 2016, 656, 481-490.	5.5	25
104	Role of dynamic strain aging in the tensile property, cyclic deformation and fatigue behavior of Z2CND18.12N stainless steel between 293 K and 723 K. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 558, 730-736.	5.6	24
105	Ratcheting behavior of sandwiched assembly joined by sintered nanosilver for power electronics packaging. Microelectronics Reliability, 2013, 53, 645-651.	1.7	24
106	Three-Dimensional Visualization of the Crack-Growth Behavior of Nano-Silver Joints During Shear Creep. Journal of Electronic Materials, 2015, 44, 761-769.	2.2	24
107	Biaxial fatigue crack propagation behavior of perfluorosulfonic-acid membranes. Journal of Power Sources, 2018, 384, 58-65.	7.8	24
108	Effect of Pretreatment on Microstructure and Mechanical Properties of Nafion <sup>®</sup> , XL Composite Membrane. Fuel Cells, 2019, 19, 530-538.	2.4	24

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109	Mechanical properties of anisotropic conductive film with strain rate and temperature. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 513-514, 216-221.	5.6	23
110	Low cycle fatigue of 2.25Cr1Mo steel with tensile and compressed hold loading at elevated temperature. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 667, 251-260.	5.6	23
111	Effect of thermal aging on mechanical properties of a bainitic forging steel for reactor pressure vessel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 720, 169-175.	5.6	23
112	Effects of thermal aging on uniaxial ratcheting behavior of vulcanised natural rubber. <i>Polymer Testing</i> , 2018, 70, 102-110.	4.8	23
113	Ratcheting behavior of pressurized-bending elbow pipe after thermal aging. <i>International Journal of Pressure Vessels and Piping</i> , 2019, 169, 160-169.	2.6	23
114	Exploring factors controlling pre-corrosion fatigue of 316L austenitic stainless steel in hydrofluoric acid. <i>Engineering Failure Analysis</i> , 2020, 113, 104556.	4.0	23
115	Thermomechanical fatigue properties and microstructural damage of nitrogen alloyed 316LN stainless steel. <i>International Journal of Fatigue</i> , 2020, 138, 105704.	5.7	23
116	Fatigue life of 63Sn-37Pb solder related to load drop under uniaxial and torsional loading. <i>International Journal of Fatigue</i> , 2006, 28, 767-776.	5.7	22
117	Effect of Strain Rate and Temperature on the Tensile Properties of Tin-Based Lead-Free Solder Alloys. <i>Journal of Electronic Materials</i> , 2008, 37, 1012-1019.	2.2	22
118	Ratcheting behavior of pressurized elbow pipe at intrados under different loading paths. <i>Thin-Walled Structures</i> , 2019, 138, 293-301.	5.3	22
119	Ratcheting behavior of pressurized 90° elbow piping subjected to reversed in-plane bending with a combined hardening model. <i>International Journal of Pressure Vessels and Piping</i> , 2016, 137, 28-37.	2.6	21
120	In-plane biaxial cyclic mechanical behavior of proton exchange membranes. <i>Journal of Power Sources</i> , 2017, 360, 495-503.	7.8	21
121	Recent progress on the corrosion behavior of metallic materials in HF solution. <i>Corrosion Reviews</i> , 2021, 39, 313-337.	2.0	21
122	Hygrothermal Effects on the Tensile Properties of Anisotropic Conductive Films. <i>Journal of Electronic Materials</i> , 2009, 38, 2415-2426.	2.2	20
123	Low cycle fatigue and creep-fatigue interaction behaviour of 2.25Cr1MoV steel at elevated temperature. <i>Materials at High Temperatures</i> , 2016, 33, 75-84.	1.0	20
124	Description of nonlinear viscoelastic behavior and creep-rupture time of anisotropic conductive film. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 5115-5121.	5.6	19
125	In-plane biaxial ratcheting behavior of PVDF UF membrane. <i>Polymer Testing</i> , 2016, 50, 41-48.	4.8	19
126	Evaluation of fracture toughness in different regions of weld joints using unloading compliance and normalization method. <i>Engineering Fracture Mechanics</i> , 2018, 195, 1-12.	4.3	19



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127	Stress intensity factor and T-stress solutions for three-dimensional clamped single edge notched tension (SENT) specimens. <i>International Journal of Pressure Vessels and Piping</i> , 2018, 168, 11-23.	2.6	19
128	Effect of cyclic softening and stress relaxation on fatigue behavior of 2.25Cr1Mo0.25V steel under strain-controlled fatigue-creep interaction at 728ÅK. <i>International Journal of Fatigue</i> , 2020, 140, 105848.	5.7	19
129	Ductile fracture properties of 16MND5 bainitic forging steel under different in-plane and out-of-plane constraint conditions: Experiments and predictions. <i>Engineering Fracture Mechanics</i> , 2021, 241, 107359.	4.3	19
130	Biodegradable behaviour and fatigue life of ZEK100 magnesium alloy in simulated physiological environment. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2015, 38, 904-913.	3.4	18
131	Embrittlement induced fracture behavior and mechanisms of perfluorosulfonic-acid membranes after chemical degradation. <i>Journal of Power Sources</i> , 2020, 453, 227893.	7.8	18
132	Modeling of ratcheting behavior under multiaxial cyclic loading. <i>Acta Mechanica</i> , 2003, 163, 9-23.	2.1	17
133	Fatigue crack growth law of API X80 pipeline steel under various stress ratios based on $\int$ . <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2014, 37, 1124-1135.	3.4	17
134	Multiaxial low cycle fatigue behavior and life prediction method of 316LN stainless steel at 550 Å°C. <i>International Journal of Fatigue</i> , 2022, 156, 106637.	5.7	17
135	Evolution of curvature under thermal cycling in sandwich assembly bonded by sintered nanosilver paste. <i>Soldering and Surface Mount Technology</i> , 2013, 25, 107-116.	1.5	16
136	Mechanical properties of cerium oxide-modified vulcanised natural rubber at elevated temperature. <i>Plastics, Rubber and Composites</i> , 2017, 46, 306-313.	2.0	16
137	Effect of notch root angle on fatigue behavior of aluminum to steel resistance spot welds. <i>International Journal of Fatigue</i> , 2020, 141, 105866.	5.7	16
138	Dynamic Visible Monitoring of Heterogeneous Local Strain Response through an Organic Mechanoresponsive AIE Luminogen. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 22129-22136.	8.0	16
139	Effect of substrate flexibility on solder joint reliability. Part II: finite element modeling. <i>Microelectronics Reliability</i> , 2005, 45, 143-154.	1.7	15
140	Bending ratcheting tests of Z2CND18.12 stainless steel. <i>International Journal of Fatigue</i> , 2012, 35, 16-22.	5.7	15
141	Effects of Voids in Sintered Silver Joint on Thermal and Optoelectronic Performances of High Power Laser Diode. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , 2013, 135, .	1.8	15
142	Mechanical properties and microstructure changes of proton exchange membrane under immersed conditions. <i>Polymer Engineering and Science</i> , 2014, 54, 2215-2221.	3.1	15
143	Evaluation of multiaxial fatigue life prediction criteria for PEEK. <i>Theoretical and Applied Fracture Mechanics</i> , 2014, 73, 128-135.	4.7	15
144	Multiaxial ratcheting-fatigue interaction on acrylonitrile-butadiene-styrene terpolymer. <i>Polymer Engineering and Science</i> , 2015, 55, 664-671.	3.1	15

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145	Thermal aging effect on the ratcheting-fatigue behavior of Z2CND18.12N stainless steel. International Journal of Fatigue, 2015, 72, 19-26.	5.7	15
146	Study on ratcheting effect of pressurized straight pipe with local wall thinning using finite element analysis. International Journal of Pressure Vessels and Piping, 2016, 139-140, 69-76.	2.6	15
147	Multiaxial ratcheting behavior of zirconium alloy tubes under combined cyclic axial load and internal pressure. Journal of Nuclear Materials, 2017, 489, 99-108.	2.7	15
148	Fracture property of Nafion XL composite membrane determined by R-curve method. Journal of Power Sources, 2018, 398, 34-41.	7.8	15
149	Uniaxial ratcheting deformation of 316LN stainless steel with dynamic strain aging: Experiments and simulation. International Journal of Solids and Structures, 2020, 207, 196-205.	2.7	15
150	Application of modified normalization method for J-R curve determination using clamped SENT specimens with varying in-plane and out-of-plane constraints. Engineering Fracture Mechanics, 2020, 230, 106968.	4.3	15
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