

Xufei Fang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

68

papers

788

citations

16

h-index

23

g-index

70

ext. papers

1,035

ext. citations

4.6

avg, IF

4.61

L-index

#	Paper	IF	Citations
68	Dislocation-enhanced electrical conductivity in rutile TiO ₂ accessed by room-temperature nanoindentation. <i>Scripta Materialia</i> , 2022 , 212, 114543	5.6	0
67	Nanoindentation study of the oxide scale on FeCr alloy by high-pressure torsion. <i>Corrosion Science</i> , 2022 , 194, 109951	6.8	0
66	Room-temperature dislocation plasticity in SrTiO ₃ tuned by defect chemistry. <i>Journal of the American Ceramic Society</i> , 2022 , 105, 1318	3.8	1
65	Mechanical tailoring of dislocation densities in SrTiO ₃ at room temperature. <i>Journal of the American Ceramic Society</i> , 2022 , 105, 2399-2402	3.8	1
64	Tuning the pitting performance of a Cr-13 type martensitic stainless steel by tempering time. <i>Corrosion Science</i> , 2022 , 203, 110346	6.8	1
63	Photoindentation: A Method to Understand Dislocation Behavior of Inorganic Semiconductors in Light at the Nanoscale. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2021 , 68, 469-475	0.2	
62	Switching the fracture toughness of single-crystal ZnS using light irradiation. <i>Applied Physics Letters</i> , 2021 , 118, 154103	3.4	5
61	Nanoindentation pop-in in oxides at room temperature: Dislocation activation or crack formation?. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 4728-4741	3.8	9
60	High-frequency flashing of light source for synchronous measurement of temperature and deformation at elevated temperature. <i>Optics and Lasers in Engineering</i> , 2021 , 137, 106361	4.6	4
59	Dislocation-toughened ceramics. <i>Materials Horizons</i> , 2021 , 8, 1528-1537	14.4	12
58	In situ nanoindentation during electrochemical hydrogen charging: a comparison between front-side and a novel back-side charging approach. <i>Journal of Materials Science</i> , 2021 , 56, 8732-8744	4.3	1
57	Photoindentation: A New Route to Understanding Dislocation Behavior in Light. <i>Nano Letters</i> , 2021 , 21, 1962-1967	11.5	9
56	A new family of high temperature lead-free Na _{1/2} Bi _{1/2} TiO ₃ -BiFeO ₃ piezoelectrics. <i>Materials Today Physics</i> , 2021 , 21, 100526	8	1
55	Dislocation-based crack initiation and propagation in single-crystal SrTiO ₃ . <i>Journal of Materials Science</i> , 2021 , 56, 5479-5492	4.3	7
54	Bridging the Gap between Bulk Compression and Indentation Test on Room-Temperature Plasticity in Oxides: Case Study on SrTiO ₃ . <i>Crystals</i> , 2020 , 10, 933	2.3	12
53	Chemo-mechanical coupling effect on bidirectional diffusion process during oxidation. <i>Journal of Applied Physics</i> , 2020 , 127, 125305	2.5	2
52	Removal of optical crosstalk caused by light source for synchronous measurement of temperature and deformation. <i>Optical Engineering</i> , 2020 , 59, 1	1.1	5

51	Temperature and deformation measurement for large-scale flat specimens based on image mosaic algorithms. <i>Applied Optics</i> , 2020 , 59, 3145-3155	1.7	5
50	High-Temperature Scanning Probe Microscopy 2020 , 1-1-1-14		
49	Optimized deposition time boosts the performance of Prussian blue modified nanoporous gold electrodes for hydrogen peroxide monitoring. <i>Nanotechnology</i> , 2020 , 31, 045501	3.4	5
48	Interfacial nanophases stabilize nanotwins in high-entropy alloys. <i>Acta Materialia</i> , 2020 , 185, 218-232	8.4	27
47	Unmasking of the temperature window and mechanism for loss of passivation effect of a Cr-13 type martensite stainless steel. <i>Corrosion Science</i> , 2020 , 177, 108951	6.8	8
46	Revealing thermal ablation mechanisms of C/SiC with in situ optical observation and numerical simulation. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 3897-3905	6	5
45	Nanoscale to microscale reversal in room-temperature plasticity in SrTiO ₃ by tuning defect concentration. <i>Scripta Materialia</i> , 2020 , 188, 228-232	5.6	14
44	Synchronous full-field measurement of temperature and deformation based on separated radiation and reflected light. <i>Optics and Lasers in Engineering</i> , 2019 , 116, 94-102	4.6	14
43	Evolution of surface droplets and flow patterns on C/SiC during thermal ablation. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 3566-3574	6	9
42	Challenges and opportunities in chemomechanics of materials: A perspective. <i>Science China Technological Sciences</i> , 2019 , 62, 1385-1387	3.5	7
41	High-Linearity Hydrogen Peroxide Sensor Based on Nanoporous Gold Electrode. <i>Journal of the Electrochemical Society</i> , 2019 , 166, B814-B820	3.9	15
40	Self-sharpening ability enhanced by torque gradient in twisted tungsten-fiber-reinforced Cu-Zn matrix composite. <i>Journal of Alloys and Compounds</i> , 2019 , 794, 396-401	5.7	3
39	Isothermal oxidation behavior of NiAl and NiAl-(Cr,Mo) eutectic alloys. <i>Corrosion Science</i> , 2019 , 151, 27-34.8	4.8	16
38	Chemo-mechanical coupling effect on high temperature oxidation: A review. <i>Science China Technological Sciences</i> , 2019 , 62, 1297-1321	3.5	6
37	Overcoming high luminance gradient using serial exposure time method for synchronous full-field measurement of temperature and deformation. <i>Applied Optics</i> , 2019 , 58, 6966-6974	1.7	8
36	Plastic deformation of tungsten due to deuterium plasma exposure: Insights from micro-compression tests. <i>Scripta Materialia</i> , 2019 , 162, 132-135	5.6	10
35	High-temperature DIC based on aluminium dihydrogen phosphate speckle. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019 , 133, 133-138	4.6	10
34	Microstructure evolution of FeNiCr alloy induced by stress-oxidation coupling using high temperature nanoindentation. <i>Corrosion Science</i> , 2018 , 135, 192-196	6.8	6

33	Effect of interface reaction and diffusion on stress-oxidation coupling at high temperature. <i>Journal of Applied Physics</i> , 2018 , 123, 155301	2.5	12
32	Influence of composition and crystal structure on the fracture toughness of NbCo ₂ Laves phase studied by micro-cantilever bending tests. <i>Materials and Design</i> , 2018 , 145, 116-121	8.1	18
31	Prussian Blue Modified Submicron Structured Gold Electrodes for Amperometric Hydrogen Peroxide Sensing. <i>Electroanalysis</i> , 2018 , 30, 583-592	3	7
30	Modification of the mechanism for stress-aided grain boundary oxidation ahead of cracks. <i>Oxidation of Metals</i> , 2018 , 89, 331-338	1.6	5
29	In situ full-field measurement of surface oxidation on Ni-based alloy using high temperature scanning probe microscopy. <i>Scientific Reports</i> , 2018 , 8, 6684	4.9	5
28	Beating hydrogen with its own weapon: Nano-twin gradients enhance embrittlement resistance of a high-entropy alloy. <i>Materials Today</i> , 2018 , 21, 1003-1009	21.8	70
27	Isothermal oxidation behavior of Tribaloy TM T400 and T800. <i>Npj Materials Degradation</i> , 2018 , 2,	5.7	6
26	Hydrogen embrittlement of tungsten induced by deuterium plasma: Insights from nanoindentation tests. <i>Journal of Materials Research</i> , 2018 , 33, 3530-3536	2.5	19
25	Ceramic-Based Speckles and Enhanced Feature-Detecting Algorithm for Deformation Measurement at High Temperature. <i>Experimental Mechanics</i> , 2017 , 57, 377-386	2.6	10
24	In-situ testing of surface evolution of SiC during thermal ablation: Mechanisms of formation, flowing and growth of liquid silica beads. <i>Ceramics International</i> , 2017 , 43, 7040-7047	5.1	10
23	Curvature effect on the surface topography evolution during oxidation at small scale. <i>Journal of Applied Physics</i> , 2017 , 121, 125301	2.5	6
22	Hydrogen peroxide sensor based on electrodeposited Prussian blue film. <i>Journal of Applied Electrochemistry</i> , 2017 , 47, 1261-1271	2.6	12
21	Synchronous Full-Field Measurement of Temperature and Deformation of C/SiC Composite Subjected to Flame Heating at High Temperature. <i>Experimental Mechanics</i> , 2016 , 56, 659-671	2.6	22
20	Effects of creep and oxidation on reduced modulus in high-temperature nanoindentation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 678, 65-71	5.3	20
19	Digital Gradient Sensing Method to Evaluate Thermal Stress at Elevated Temperatures. <i>Experimental Mechanics</i> , 2016 , 56, 1123-1132	2.6	4
18	Oxidation at High Temperature Under Three-Point Bending Considering Stress-Diffusion Coupling Effects. <i>Oxidation of Metals</i> , 2016 , 86, 125-133	1.6	9
17	Formation mechanisms of characteristic structures on the surface of C/SiC composites subjected to thermal ablation. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 451-456	6	29
16	Surface evolution at nanoscale during oxidation: A competing mechanism between local curvature effect and stress effect. <i>Journal of Applied Physics</i> , 2016 , 119, 155302	2.5	16

15	Thermal shock resistance of alumina ceramics enhanced by nanostructured conformal coatings using metal-organic frameworks. <i>Scripta Materialia</i> , 2016 , 119, 38-42	5.6	7
14	Transition of oxide film configuration and the critical stress inferred by scanning probe microscopy at nanoscale. <i>Chemical Physics Letters</i> , 2016 , 660, 33-36	2.5	5
13	Experimental and numerical investigation on SiC coating delamination from C/SiC composites. <i>Composites Science and Technology</i> , 2015 , 110, 210-216	8.6	16
12	In situ measurement of oxidation evolution at elevated temperature by nanoindentation. <i>Scripta Materialia</i> , 2015 , 103, 61-64	5.6	22
11	Full-field measurement of surface topographies and thin film stresses at elevated temperatures by digital gradient sensing method. <i>Applied Optics</i> , 2015 , 54, 721-7	1.7	7
10	Performance of TBCs system due to the different thicknesses of top ceramic layer. <i>Ceramics International</i> , 2015 , 41, 2840-2846	5.1	14
9	Three-point bending test at extremely high temperature enhanced by real-time observation and measurement. <i>Measurement: Journal of the International Measurement Confederation</i> , 2015 , 59, 171-176	4.6	26
8	Bio-Inspired Microstructure Design to Improve Thermal Ablation and Oxidation Resistance: Experiment on SiC. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 4010-4015	3.8	10
7	Measurements for displacement and deformation at high temperature by using edge detection of digital image. <i>Applied Optics</i> , 2015 , 54, 8731-7	0.2	22
6	Ablation of C/SiC, C/SiC rO_2 and C/SiC rB_2 composites in dry air and air mixed with water vapor. <i>Ceramics International</i> , 2014 , 40, 2985-2991	5.1	33
5	The Temperature-Dependent Strength of Metals: Theory and Experimental Validation. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2014 , 81,	2.7	6
4	In situ observation and measurement of composites subjected to extremely high temperature. <i>Review of Scientific Instruments</i> , 2014 , 85, 035104	1.7	21
3	Temperature-Dependent Modulus of Metals Based on Lattice Vibration Theory. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2014 , 81,	2.7	9
2	Diffusion and Stress Coupling Effect during Oxidation at High Temperature. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 44-46	3.8	61
1	Wrinkles formation and evolution of nanoribbons with finite length on elastomeric substrate. <i>Applied Physics Letters</i> , 2011 , 99, 141903	3.4	7