

Chih-Kuang Lin

List of Publications by Year in descending order

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60
papers

1,664
citations

331670

21
h-index

302126

39
g-index

60
all docs

60
docs citations

60
times ranked

1230
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal stress analysis of a planar SOFC stack. Journal of Power Sources, 2007, 164, 238-251.	7.8	232
2	Effect of trace La addition on the microstructures and mechanical properties of A356 (Al-7Si-0.35Mg) aluminum alloys. Journal of Alloys and Compounds, 2009, 487, 157-162.	5.5	174
3	Thermal stress analysis of planar solid oxide fuel cell stacks: Effects of sealing design. Journal of Power Sources, 2009, 192, 515-524.	7.8	99
4	Tensile and fatigue properties of 17-4 PH stainless steel at high temperatures. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2002, 33, 1715-1724.	2.2	64
5	Effects of Nb and W additions on high-temperature creep properties of ferritic stainless steels for solid oxide fuel cell interconnect. Journal of Power Sources, 2012, 198, 149-157.	7.8	64
6	Effects of crystallization on the high-temperature mechanical properties of a glass sealant for solid oxide fuel cell. Journal of Power Sources, 2010, 195, 3159-3165.	7.8	61
7	Title is missing!. Journal of Materials Science, 2003, 38, 965-971.	3.7	58
8	Effect of trace Ce addition on the microstructures and mechanical properties of A356 (Al-7Si-0.35%Mg) aluminum alloys. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'an, 2011, 34, 609-616.	1.1	58
9	High-temperature tensile and creep properties of a ferritic stainless steel for interconnect in solid oxide fuel cell. Journal of Power Sources, 2011, 196, 2005-2012.	7.8	56
10	High-temperature mechanical properties of a glass sealant for solid oxide fuel cell. Journal of Power Sources, 2009, 189, 1093-1099.	7.8	46
11	Effect of strain rate on high-temperature low-cycle fatigue of 17-4 PH stainless steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 390, 291-298.	5.6	40
12	Joint strength of a solid oxide fuel cell glass-ceramic sealant with metallic interconnect. Journal of Power Sources, 2012, 205, 307-317.	7.8	39
13	Conductive Characteristics of Indium Tin Oxide Thin Film on Polymeric Substrate under Long-Term Static Deformation. Coatings, 2018, 8, 212.	2.6	39
14	High-temperature mechanical properties of a solid oxide fuel cell glass sealant in sintered forms. Journal of Power Sources, 2011, 196, 3583-3591.	7.8	36
15	Creep rupture of lead-free Sn-3.5Ag and Sn-3.5Ag-0.5Cu solders. Journal of Materials Science: Materials in Electronics, 2005, 16, 355-365.	2.2	34
16	Effects of cyclic hydriding-dehydriding reactions of Mg ₂ Ni alloy on the expansion deformation of a metal hydride storage vessel. Journal of Alloys and Compounds, 2011, 509, 7162-7167.	5.5	33
17	Effects of cyclic hydriding-dehydriding reactions of LaNi ₅ on the thin-wall deformation of metal hydride storage vessels with various configurations. Renewable Energy, 2012, 48, 404-410.	8.9	26
18	Joint strength of a solid oxide fuel cell glass-ceramic sealant with metallic interconnect in a reducing environment. Journal of Power Sources, 2015, 280, 272-288.	7.8	25

#	ARTICLE	IF	CITATIONS
19	Mechanical behaviour of a granular solid and its contacting deformable structure under uni-axial compression – Part I: Joint DEM–FEM modelling and experimental validation. <i>Chemical Engineering Science</i> , 2016, 144, 404-420.	3.8	25
20	Aging effects on high-temperature creep properties of a solid oxide fuel cell glass-ceramic sealant. <i>Journal of Power Sources</i> , 2013, 241, 12-19.	7.8	23
21	High-Cycle Fatigue of Austempered Ductile Irons in Various-Sized Y-Block Castings. <i>Materials Transactions, JIM</i> , 1997, 38, 682-691.	0.9	22
22	Dynamic strain aging in low cycle fatigue of duplex titanium alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 4381-4389.	5.6	22
23	Creep rupture of the joint of a solid oxide fuel cell glass–ceramic sealant with metallic interconnect. <i>Journal of Power Sources</i> , 2014, 245, 787-795.	7.8	20
24	Creep rupture of the joint between a glass-ceramic sealant and lanthanum strontium manganite-coated ferritic stainless steel interconnect for solid oxide fuel cells. <i>Journal of the European Ceramic Society</i> , 2018, 38, 2417-2429.	5.7	20
25	Influence of Frequency on High-Temperature Fatigue Behavior of 17-4 PH Stainless Steels. <i>Materials Transactions</i> , 2003, 44, 713-721.	1.2	19
26	High-temperature fatigue crack growth behavior of 17-4 PH stainless steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2004, 35, 3018-3024.	2.2	19
27	Effects of continuously applied stress on tin whisker growth. <i>Microelectronics Reliability</i> , 2008, 48, 1737-1740.	1.7	19
28	An extreme learning machine for predicting kerf waviness and heat affected zone in pulsed laser cutting of thin non-oriented silicon steel. <i>Optics and Lasers in Engineering</i> , 2020, 134, 106244.	3.8	19
29	Influence of heat treatment on fatigue crack growth of austempered ductile iron. <i>Journal of Materials Science</i> , 2002, 37, 709-716.	3.7	18
30	Effects of Build Direction on the Mechanical Properties of a Martensitic Stainless Steel Fabricated by Selective Laser Melting. <i>Materials</i> , 2020, 13, 5142.	2.9	16
31	Thermo-mechanical fatigue properties of a ferritic stainless steel for solid oxide fuel cell interconnect. <i>Journal of Power Sources</i> , 2012, 219, 112-119.	7.8	15
32	Mechanical durability of solid oxide fuel cell glass-ceramic sealant/steel interconnect joint under thermo-mechanical cycling. <i>Renewable Energy</i> , 2019, 138, 1205-1213.	8.9	15
33	Effects of Laser Spot Size on the Mechanical Properties of AISI 420 Stainless Steel Fabricated by Selective Laser Melting. <i>Materials</i> , 2021, 14, 4593.	2.9	15
34	Prediction and optimization of dross formation in laser cutting of electrical steel sheet in different environments. <i>Journal of Materials Research and Technology</i> , 2022, 18, 1977-1990.	5.8	13
35	Low-Cycle Fatigue of Austempered Ductile Irons in Various-Sized Y-Block Castings. <i>Materials Transactions, JIM</i> , 1997, 38, 692-700.	0.9	12
36	Analysis of structural deformation and deformation-induced solar radiation misalignment in a tracking photovoltaic system. <i>Renewable Energy</i> , 2013, 59, 65-74.	8.9	12

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37	Effects of cyclic deformation on conductive characteristics of indium tin oxide thin film on polyethylene terephthalate substrate. <i>Surface and Coatings Technology</i> , 2015, 283, 298-310.	4.8	12
38	Prediction and optimization of geometrical quality for pulsed laser cutting of non-oriented electrical steel sheet. <i>Optics and Laser Technology</i> , 2022, 149, 107847.	4.6	12
39	An improved real-time temperature control for pulsed laser cutting of non-oriented electrical steel. <i>Optics and Laser Technology</i> , 2021, 136, 106783.	4.6	11
40	Fatigue behavior of AISI 347 stainless steel in various environments. <i>Journal of Materials Science</i> , 2004, 39, 6901-6908.	3.7	10
41	Creep properties of Sn-3.5Ag-0.5Cu lead-free solder under step-loading. <i>Journal of Materials Science: Materials in Electronics</i> , 2006, 17, 577-586.	2.2	10
42	Influence of Frequency on the High-Temperature Fatigue Crack Growth Behavior of 17-4 PH Stainless Steels. <i>Materials Transactions</i> , 2007, 48, 490-499.	1.2	10
43	Artificial intelligence-based modeling and optimization of heat-affected zone and magnetic property in pulsed laser cutting of thin nonoriented silicon steel. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 113, 3225-3240.	3.0	10
44	Effects of cyclic deformation on a barrier thin film for flexible organic optoelectronic devices. <i>Thin Solid Films</i> , 2018, 650, 20-31.	1.8	9
45	DEM simulation and experimental validation for mechanical response of ellipsoidal particles under confined compression. <i>Advanced Powder Technology</i> , 2018, 29, 1292-1305.	4.1	9
46	Interfacial fracture resistance of the joint of a solid oxide fuel cell glass-ceramic sealant with metallic interconnect. <i>Journal of Power Sources</i> , 2014, 261, 227-237.	7.8	8
47	Effects of R-ratio on high-temperature fatigue crack growth behavior of a precipitation-hardening stainless steel. <i>International Journal of Fatigue</i> , 2008, 30, 2147-2155.	5.7	7
48	Effect of the Spinning Deformation Processing on Mechanical Properties of Al-7Si-0.3Mg Alloys. <i>Journal of Materials Engineering and Performance</i> , 2012, 21, 1873-1878.	2.5	7
49	Corrosion fatigue of austempered ductile iron. <i>Journal of Materials Science</i> , 2003, 38, 1667-1672.	3.7	6
50	Analysis of structural deformation and concentrator misalignment in a roll-tilt solar tracker. , 2013, , ,		6
51	Effects of Particle Stiffness on Mechanical Response of Granular Solid Under Confined Compression. <i>Procedia Engineering</i> , 2014, 79, 143-152.	1.2	5
52	A Hybrid PSO-GWO Fuzzy Logic Controller with a New Fuzzy Tuner. <i>International Journal of Fuzzy Systems</i> , 2022, 24, 1586-1604.	4.0	5
53	Controller Design for Unstable Time-Delay Systems with Unknown Transfer Functions. <i>Mathematics</i> , 2022, 10, 431.	2.2	5
54	Effects of Long-Term Static Bending Deformation on a Barrier Thin Film for Flexible Organic Optoelectronic Devices. <i>Coatings</i> , 2018, 8, 127.	2.6	4

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55	Low-cycle fatigue behavior of AISI 347 stainless steel in salt water. Journal of Materials Science, 2007, 42, 40-49.	3.7	3
56	Statistical Analysis of Size Effects on Time-Dependent Fracture of an Alumina. Journal of the Ceramic Society of Japan, 1997, 105, 723-730.	1.3	2
57	Formation of Bottom Conjugate Pair Grooves by Femtosecond Laser Grooving on Transparent Substrate. IEEE Photonics Technology Letters, 2021, 33, 305-308.	2.5	2
58	Design of Optimal Controllers for Unknown Dynamic Systems through the Nelderâ€“Mead Simplex Method. Mathematics, 2021, 9, 2013.	2.2	2
59	Environmental Effects on Fatigue Crack Growth in Austempered Ductile Irons. Materials Transactions, 2001, 42, 1085-1094.	1.2	1
60	Size Effect on Thermal Shock Behavior of an Alumina. Journal of the Ceramic Society of Japan, 1997, 105, 1062-1066.	1.3	0