

Shih-Hang Chang

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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.

61
papers

782
citations

17
h-index

25
g-index

65
ext. papers

883
ext. citations

4
avg, IF

4.47
L-index

#	Paper	IF	Citations
61	Annealing effects on the crystallization and shape memory effect of Ti50Ni25Cu25 melt-spun ribbons. <i>Intermetallics</i> , 2007 , 15, 233-240	3.5	49
60	Inherent internal friction of B2-B and R-B19' martensitic transformations in equiatomic TiNi shape memory alloy. <i>Scripta Materialia</i> , 2006 , 55, 311-314	5.6	43
59	Influence of chemical composition on the damping characteristics of CuAlNi shape memory alloys. <i>Materials Chemistry and Physics</i> , 2011 , 125, 358-363	4.4	42
58	Feasibility study of surface-modified carbon cloth electrodes using atmospheric pressure plasma jets for microbial fuel cells. <i>Journal of Power Sources</i> , 2016 , 336, 99-106	8.9	38
57	Textures in cold-rolled and annealed Ti50Ni50 shape memory alloy. <i>Scripta Materialia</i> , 2004 , 50, 937-941	5.6	38
56	Plasma surface modification effects on biodegradability and protein adsorption properties of chitosan films. <i>Applied Surface Science</i> , 2013 , 282, 735-740	6.7	36
55	Grain size effect on multiple-stage transformations of a cold-rolled and annealed equiatomic TiNi alloy. <i>Scripta Materialia</i> , 2005 , 52, 1341-1346	5.6	35
54	Effect of cooling rate on transformation temperature measurements of Ti50Ni50 alloy by differential scanning calorimetry and dynamic mechanical analysis. <i>Materials Characterization</i> , 2008 , 59, 987-990	3.9	33
53	Internal friction of B2-B19' martensitic transformation of Ti50Ni50 shape memory alloy under isothermal conditions. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 454-455, 379-383	5.3	33
52	Low-frequency damping properties of near-stoichiometric Ni2MnGa shape memory alloys under isothermal conditions. <i>Scripta Materialia</i> , 2008 , 59, 1039-1042	5.6	26
51	Internal friction of R-phase and B19' martensite in equiatomic TiNi shape memory alloy under isothermal conditions. <i>Journal of Alloys and Compounds</i> , 2007 , 437, 120-126	5.7	22
50	Cold-rolling effect on damping capacity of high-temperature damping background for AZ80 magnesium alloy. <i>Journal of Alloys and Compounds</i> , 2009 , 487, 142-145	5.7	21
49	Martensitic transformation of annealed Ti50Ni25Cu25 melt-spun ribbons. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 476, 316-321	5.3	18
48	Inherent Internal Friction of Ti51Ni39Cu10 Shape Memory Alloy. <i>Materials Transactions</i> , 2007 , 48, 2143-2147	1.7	18
47	Crystallization Kinetics of Ti50Ni25Cu25 Melt-Spun Amorphous Ribbons. <i>Materials Transactions</i> , 2006 , 47, 2489-2492	1.3	18
46	Inherent internal friction of Ti50Ni50-xCux shape memory alloys measured under isothermal conditions. <i>Journal of Alloys and Compounds</i> , 2014 , 586, 69-73	5.7	17
45	Surface modification of carbon cloth anodes for microbial fuel cells using atmospheric-pressure plasma jet processed reduced graphene oxides. <i>RSC Advances</i> , 2017 , 7, 56433-56439	3.7	17

44	Shape memory characteristics of as-spun and annealed Ti51Ni49 crystalline ribbons. <i>Intermetallics</i> , 2010 , 18, 965-971	3.5	17
43	Nanohardness, corrosion and protein adsorption properties of CuAlO ₂ films deposited on 316L stainless steel for biomedical applications. <i>Applied Surface Science</i> , 2014 , 289, 455-461	6.7	16
42	Biodegradability and anticoagulant properties of chitosan and sulfonated chitosan films coated on TiNi alloys. <i>Surface and Coatings Technology</i> , 2012 , 206, 4959-4963	4.4	16
41	Low-frequency damping properties of dual-phase Mg ₇₀ Li ₁₀ .5Zn alloys. <i>Journal of Alloys and Compounds</i> , 2008 , 465, 210-215	5.7	15
40	Damping characteristics of Sn ₃ Ag _{0.5} Cu and Sn ₃ Pb solders studied by dynamic mechanical analysis. <i>Scripta Materialia</i> , 2010 , 63, 957-960	5.6	14
39	Low-frequency damping properties of eutectic SnBi and InSn solders. <i>Scripta Materialia</i> , 2011 , 64, 757-760	3.3	13
38	Internal friction of Cu ₃ Al ₂ Ni shape memory alloy measured by dynamic mechanical analysis under isothermal conditions. <i>Materials Letters</i> , 2010 , 64, 93-95	3.3	13
37	Precipitate-induced R-phase in martensitic transformation of as-spun and annealed Ti51Ni49 ribbons. <i>Journal of Alloys and Compounds</i> , 2010 , 505, 76-80	5.7	12
36	Isothermal effect on internal friction of Ti50Ni50 alloy measured by step cooling method in dynamic mechanical analyzer. <i>Journal of Alloys and Compounds</i> , 2008 , 459, 155-159	5.7	12
35	Low-frequency damping properties of as-extruded Mg ₇₁ Li ₁₀ .95Al ₁₀ .43Zn magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 6020-6025	5.3	11
34	Damping Characteristics of the Inherent and Intrinsic Internal Friction of Ti50Ni50-xFex (x = 2, 3, and 4) Shape Memory Alloys. <i>Materials Transactions</i> , 2016 , 57, 351-356	1.3	11
33	Low frequency damping properties of a NiMnTi shape memory alloy. <i>Materials Letters</i> , 2011 , 65, 134-136	3.3	10
32	Effect of Al/Cu ratios on the optical, electrical, and electrochemical properties of CuAl _{1-x} Ca _x thin films. <i>Journal of Alloys and Compounds</i> , 2014 , 609, 111-115	5.7	9
31	Surface characteristics of the 316L stainless steel modified by ethylene vinyl acetate/chitosan composite films. <i>Surface and Coatings Technology</i> , 2017 , 320, 635-639	4.4	8
30	Selective leaching and surface properties of Ti50Ni50-xCux (x=0-20at.%) shape memory alloys for biomedical applications. <i>Applied Surface Science</i> , 2015 , 324, 106-113	6.7	8
29	Surface and Protein Adsorption Properties of 316L Stainless Steel Modified with Polycaprolactone Film. <i>Polymers</i> , 2017 , 9,	4.5	8
28	Transformation sequence in severely cold-rolled and annealed Ti50Ni50 alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 438-440, 509-512	5.3	8
27	Cost-Effective Surface Modification of Carbon Cloth Electrodes for Microbial Fuel Cells by Candle Soot Coating. <i>Coatings</i> , 2018 , 8, 468	2.9	8

26	Effects of Cold-Rolling/Aging Treatments on the Shape Memory Properties of Ti49.3Ni50.7 Shape Memory Alloy. <i>Materials</i> , 2017 , 10,	3-5	7
25	Damping Characteristics of Inherent and Intrinsic Internal Friction of Cu-Zn-Al Shape Memory Alloys. <i>Metals</i> , 2017 , 7, 397	2-3	6
24	Dynamically programmable surface micro-wrinkles on PDMS-SMA composite. <i>Smart Materials and Structures</i> , 2014 , 23, 115007	3-4	6
23	Toxicity assessment of three-component Fe-Cr-Ni biomedical materials using an augmented simplex design. <i>Materials Science and Engineering C</i> , 2012 , 32, 1893-1896	8-3	6
22	Surface and protein adsorption properties of 316L stainless steel modified by polyvinyl alcohol and plasma-treated polyvinyl alcohol films. <i>Surface and Coatings Technology</i> , 2019 , 362, 208-212	4-4	5
21	Damping Characteristics of TiNiCu (= 0~30 at.%) Shape Memory Alloys at a Low Frequency. <i>Materials</i> , 2014 , 7, 4574-4586	3-5	5
20	Effect of Co additions on the damping properties of CuAlNi shape memory alloys. <i>Journal of Alloys and Compounds</i> , 2020 , 847, 156560	5-7	5
19	Damping Capacities of Ti50Ni50-xCux Shape Memory Alloys Measured under Temperature, Strain, and Frequency Sweeps. <i>Materials Transactions</i> , 2015 , 56, 193-199	1-3	4
18	Crystallization temperature and activation energy of as-spun Ti52.0Ni38.5Cu9.5 ribbon. <i>Thin Solid Films</i> , 2011 , 519, 5302-5306	2-2	4
17	Damping characteristics of TiNi shape memory alloy wires reinforced epoxy resin. <i>Journal of Reinforced Plastics and Composites</i> , 2011 , 30, 1931-1938	2-9	3
16	Damping characteristics of the Ti-rich TiNi melt-spun ribbon measured by using a dynamic mechanical analyzer. <i>Physica Scripta</i> , 2010 , T139, 014012	2-6	3
15	Effect of reinforced multiwall carbon nanotubes on the damping characteristics of Sn-Ag-Cu lead-free solder. <i>Materials Letters</i> , 2020 , 276, 128196	3-3	3
14	Selective leaching and surface properties of CoNiCr-based medium-/high-entropy alloys. <i>Applied Surface Science</i> , 2020 , 515, 146044	6-7	2
13	Determining transformation temperatures of equiatomic TiNi shape memory alloy by dynamic mechanical analysis test. <i>Journal of Alloys and Compounds</i> , 2013 , 577, S241-S244	5-7	2
12	Characteristics of TiNi Shape Memory Foils Fabricated by Double Cathodes Electrochemical Polishing. <i>Journal of Materials Engineering and Performance</i> , 2012 , 21, 2670-2674	1-6	2
11	Damping Properties of Homogenized and Cold-Rolled Mg–14.3Li–0.8Zn β-Phase Magnesium Alloy. <i>Materials Transactions</i> , 2012 , 53, 407-411	1-3	2
10	Damping characteristics of as-spun and annealed Ti51Ni49 ribbons measured by dynamic mechanical analysis. <i>Journal of Alloys and Compounds</i> , 2013 , 577, S175-S178	5-7	1
9	Effect of Cold-Rolling on Damping Characteristics of Multi-Component Al–12%Si Alloy Measured by Dynamic Mechanical Analyzer. <i>Materials Transactions</i> , 2013 , 54, 738-744	1-3	1

8	Selective Leaching and Surface Properties of Cu-Al-Ni Shape Memory Alloys. <i>Materials Transactions</i> , 2018 , 59, 787-792	1.3	1
7	Martensitic transformation and damping capacities of Ni ₅₀ Mn ₄₀ Sn _{10+x} (x = 0-4 at.%) ferromagnetic shape memory alloys. <i>Journal of Materials Research</i> , 2021 , 36, 1686-1694	2.5	0
6	Toxicity assessment and selective leaching characteristics of Cu-Al-Ni shape memory alloys in biomaterials applications. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2016 , 14, e59-64	1.8	0
5	Toxicity Assessment of Fe-Mn-Al Ternary Alloys Using a Probit Dose-Response Model and an Augmented Simplex Design. <i>Materials Transactions</i> , 2015 , 56, 135-139	1.3	
4	Damping Characteristics of Shape Memory Alloys on Their Inherent and Intrinsic Internal Friction 2018 , 1-29		
3	Damping Characteristics of Shape Memory Alloys on Their Inherent and Intrinsic Internal Friction 2019 , 1565-1593		
2	Annealing Effect on Transformation Behavior of Ni-Rich Ti ₄₉ Ni ₄₁ Cu ₁₀ Shape Memory Alloy 329-333		
1	Surface properties of chitosan/montmorillonite films for biomedical applications. <i>Polymers and Polymer Composites</i> , 2020 , 096739112096843	0.8	