Shih-Hang Chang

List of Publications by Year in Descending Order

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	Martensitic transformation and damping capacities of Ni50Mn40□Sn10+x (x = 0□4 at.%) ferromagnetic shape memory alloys. *Journal of Materials Research*, **2021**, 36, 1686-1694	2.5	0
60	Selective leaching and surface properties of CoNiCr-based medium-/high-entropy alloys. *Applied Surface Science*, **2020**, 515, 146044	6.7	2
59	Effect of Co additions on the damping properties of Cu□Al□Ni shape memory alloys. *Journal of Alloys and Compounds*, **2020**, 847, 156560	5.7	5
58	Surface properties of chitosan/montmorillonite films for biomedical applications. *Polymers and Polymer Composites*, **2020**, 096739112096843	0.8	
57	Effect of reinforced multiwall carbon nanotubes on the damping characteristics of Sn-Ag-Cu lead-free solder. *Materials Letters*, **2020**, 276, 128196	3.3	3
56	Surface and protein adsorption properties of 316L stainless steel modified by polyvinyl alcohol and plasma-treated polyvinyl alcohol films. *Surface and Coatings Technology*, **2019**, 362, 208-212	4.4	5
55	Damping Characteristics of Shape Memory Alloys on Their Inherent and Intrinsic Internal Friction **2019**, 1565-1593		
54	Damping Characteristics of Shape Memory Alloys on Their Inherent and Intrinsic Internal Friction **2018**, 1-29		
53	Cost-Effective Surface Modification of Carbon Cloth Electrodes for Microbial Fuel Cells by Candle Soot Coating. *Coatings*, **2018**, 8, 468	2.9	8
52	Selective Leaching and Surface Properties of Cu□Al□Ni Shape Memory Alloys. *Materials Transactions* , **2018**, 59, 787-792	1.3	1
51	Surface characteristics of the 316L stainless steel modified by ethylene vinyl acetate/chitosan composite films. *Surface and Coatings Technology*, **2017**, 320, 635-639	4.4	8
50	Damping Characteristics of Inherent and Intrinsic Internal Friction of Cu-Zn-Al Shape Memory Alloys. *Metals*, **2017**, 7, 397	2.3	6
49	Surface modification of carbon cloth anodes for microbial fuel cells using atmospheric-pressure plasma jet processed reduced graphene oxides. *RSC Advances*, **2017**, 7, 56433-56439	3.7	17
48	Surface and Protein Adsorption Properties of 316L Stainless Steel Modified with Polycaprolactone Film. *Polymers*, **2017**, 9,	4.5	8
47	Effects of Cold-Rolling/Aging Treatments on the Shape Memory Properties of Ti49.3Ni50.7 Shape Memory Alloy. *Materials*, **2017**, 10,	3.5	7
46	Feasibility study of surface-modified carbon cloth electrodes using atmospheric pressure plasma jets for microbial fuel cells. *Journal of Power Sources*, **2016**, 336, 99-106	8.9	38
45	Toxicity assessment and selective leaching characteristics of Cu-Al-Ni shape memory alloys in biomaterials applications. *Journal of Applied Biomaterials and Functional Materials*, **2016**, 14, e59-64	1.8	0

44	Damping Characteristics of the Inherent and Intrinsic Internal Friction of Ti50Ni50−xFex (x = 2, 3, and 4) Shape Memory Alloys. *Materials Transactions*, **2016**, 57, 351-356	1.3	11
43	Selective leaching and surface properties of Ti50Ni50−xCux (x=0–20at.%) shape memory alloys for biomedical applications. *Applied Surface Science*, **2015**, 324, 106-113	6.7	8
42	Damping Capacities of Ti50Ni50−xCux Shape Memory Alloys Measured under Temperature, Strain, and Frequency Sweeps. *Materials Transactions*, **2015**, 56, 193-199	1.3	4
41	Toxicity Assessment of Fe-Mn-Al Ternary Alloys Using a Probit Dose-Response Model and an Augmented Simplex Design. *Materials Transactions*, **2015**, 56, 135-139	1.3	
40	Effect of Al/Cu ratios on the optical, electrical, and electrochemical properties of CuAlCaO thin films. *Journal of Alloys and Compounds*, **2014**, 609, 111-115	5.7	9
39	Nanohardness, corrosion and protein adsorption properties of CuAlO2 films deposited on 316L stainless steel for biomedical applications. *Applied Surface Science*, **2014**, 289, 455-461	6.7	16
38	Dynamically programmable surface micro-wrinkles on PDMS-SMA composite. *Smart Materials and Structures*, **2014**, 23, 115007	3.4	6
37	Inherent internal friction of Ti50Ni50−xCux shape memory alloys measured under isothermal conditions. *Journal of Alloys and Compounds*, **2014**, 586, 69-73	5.7	17
36	Damping Characteristics of TiNiCu (= 0~30 at.%) Shape Memory Alloys at a Low Frequency. *Materials*, **2014**, 7, 4574-4586	3.5	5
35	Plasma surface modification effects on biodegradability and protein adsorption properties of chitosan films. *Applied Surface Science*, **2013**, 282, 735-740	6.7	36
34	Determining transformation temperatures of equiatomic TiNi shape memory alloy by dynamic mechanical analysis test. *Journal of Alloys and Compounds*, **2013**, 577, S241-S244	5.7	2
33	Damping characteristics of as-spun and annealed Ti51Ni49 ribbons measured by dynamic mechanical analysis. *Journal of Alloys and Compounds*, **2013**, 577, S175-S178	5.7	1
32	Effect of Cold-Rolling on Damping Characteristics of Multi-Component Al–12%Si Alloy Measured by Dynamic Mechanical Analyzer. *Materials Transactions*, **2013**, 54, 738-744	1.3	1
31	Biodegradability and anticoagulant properties of chitosan and sulfonated chitosan films coated on TiNi alloys. *Surface and Coatings Technology*, **2012**, 206, 4959-4963	4.4	16
30	Toxicity assessment of three-component Fe-Cr-Ni biomedical materials using an augmented simplex design. *Materials Science and Engineering C*, **2012**, 32, 1893-1896	8.3	6
29	Characteristics of TiNi Shape Memory Foils Fabricated by Double Cathodes Electrochemical Polishing. *Journal of Materials Engineering and Performance*, **2012**, 21, 2670-2674	1.6	2
28	Damping Properties of Homogenized and Cold-Rolled Mg–14.3Li–0.8Zn β-Phase Magnesium Alloy. *Materials Transactions*, **2012**, 53, 407-411	1.3	2
27	Low-frequency damping properties of eutectic SnBi and InSn solders. *Scripta Materialia*, **2011**, 64, 757-760	3.6	13

26	Influence of chemical composition on the damping characteristics of CuAlNi shape memory alloys. *Materials Chemistry and Physics*, **2011**, 125, 358-363	4.4	42
25	Low frequency damping properties of a NiMnTi shape memory alloy. *Materials Letters*, **2011**, 65, 134-136	3.3	10
24	Low-frequency damping properties of as-extruded Mg11.2Li0.95Al0.43Zn magnesium alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2011**, 528, 6020-6025	5.3	11
23	Crystallization temperature and activation energy of as-spun Ti52.0Ni38.5Cu9.5 ribbon. *Thin Solid Films*, **2011**, 519, 5302-5306	2.2	4
22	Damping characteristics of TiNi shape memory alloy wires reinforced epoxy resin. *Journal of Reinforced Plastics and Composites*, **2011**, 30, 1931-1938	2.9	3
21	Shape memory characteristics of as-spun and annealed Ti51Ni49 crystalline ribbons. *Intermetallics*, **2010**, 18, 965-971	3.5	17
20	Precipitate-induced R-phase in martensitic transformation of as-spun and annealed Ti51Ni49 ribbons. *Journal of Alloys and Compounds*, **2010**, 505, 76-80	5.7	12
19	Damping characteristics of the Ti-rich TiNi melt-spun ribbon measured by using a dynamic mechanical analyzer. *Physica Scripta*, **2010**, T139, 014012	2.6	3
18	Internal friction of Cu13.5Al4Ni shape memory alloy measured by dynamic mechanical analysis under isothermal conditions. *Materials Letters*, **2010**, 64, 93-95	3.3	13
17	Damping characteristics of Sn3Ag0.5Cu and Sn37Pb solders studied by dynamic mechanical analysis. *Scripta Materialia*, **2010**, 63, 957-960	5.6	14
16	Cold-rolling effect on damping capacity of high-temperature damping background for AZ80 magnesium alloy. *Journal of Alloys and Compounds*, **2009**, 487, 142-145	5.7	21
15	Low-frequency damping properties of near-stoichiometric Ni2MnGa shape memory alloys under isothermal conditions. *Scripta Materialia*, **2008**, 59, 1039-1042	5.6	26
14	Effect of cooling rate on transformation temperature measurements of Ti50Ni50 alloy by differential scanning calorimetry and dynamic mechanical analysis. *Materials Characterization*, **2008**, 59, 987-990	3.9	33
13	Isothermal effect on internal friction of Ti50Ni50 alloy measured by step cooling method in dynamic mechanical analyzer. *Journal of Alloys and Compounds*, **2008**, 459, 155-159	5.7	12
12	Low-frequency damping properties of dual-phase Mg8Li0.5Zn alloys. *Journal of Alloys and Compounds*, **2008**, 465, 210-215	5.7	15
11	Martensitic transformation of annealed Ti50Ni25Cu25 melt-spun ribbons. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2008**, 476, 316-321	5.3	18
10	Internal friction of B2-B19? martensitic transformation of Ti50Ni50 shape memory alloy under isothermal conditions. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2007**, 454-455, 379-383	5.3	33
9	Inherent Internal Friction of Ti51Ni39Cu10 Shape Memory Alloy. *Materials Transactions*, **2007**, 48, 2143-2147	1.7	18

8	Internal friction of R-phase and B19? martensite in equiatomic TiNi shape memory alloy under isothermal conditions. *Journal of Alloys and Compounds*, **2007**, 437, 120-126	5.7	22
7	Annealing effects on the crystallization and shape memory effect of Ti50Ni25Cu25 melt-spun ribbons. *Intermetallics*, **2007**, 15, 233-240	3.5	49
6	Inherent internal friction of B2-R and R-B19? martensitic transformations in equiatomic TiNi shape memory alloy. *Scripta Materialia*, **2006**, 55, 311-314	5.6	43
5	Crystallization Kinetics of Ti50Ni25Cu25 Melt-Spun Amorphous Ribbons. *Materials Transactions*, **2006**, 47, 2489-2492	1.3	18
4	Transformation sequence in severely cold-rolled and annealed Ti50Ni50 alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2006**, 438-440, 509-512	5.3	8
3	Grain size effect on multiple-stage transformations of a cold-rolled and annealed equiatomic TiNi alloy. *Scripta Materialia*, **2005**, 52, 1341-1346	5.6	35
2	Textures in cold-rolled and annealed Ti50Ni50 shape memory alloy. *Scripta Materialia*, **2004**, 50, 937-941	5.6	38
1	Annealing Effect on Transformation Behavior of Ni-Rich Ti49Ni41Cu10 Shape Memory Alloy329-333		