

Shih-Hang Chang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3478500/publications.pdf>

Version: 2024-02-01

64
papers

977
citations

393982

19
h-index

500791

28
g-index

65
all docs

65
docs citations

65
times ranked

750
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of chemical composition on the damping characteristics of Cu-Al-Ni shape memory alloys. <i>Materials Chemistry and Physics</i> , 2011, 125, 358-363.	2.0	57
2	Annealing effects on the crystallization and shape memory effect of Ti50Ni25Cu25 melt-spun ribbons. <i>Intermetallics</i> , 2007, 15, 233-240.	1.8	56
3	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.	4.0	56
4	Inherent internal friction of B2 and R martensitic transformations in equiatomic TiNi shape memory alloy. <i>Scripta Materialia</i> , 2006, 55, 311-314.	2.6	50
5	Textures in cold-rolled and annealed Ti50Ni50 shape memory alloy. <i>Scripta Materialia</i> , 2004, 50, 937-941.	2.6	46
6	Plasma surface modification effects on biodegradability and protein adsorption properties of chitosan films. <i>Applied Surface Science</i> , 2013, 282, 735-740.	3.1	41
7	Grain size effect on multiple-stage transformations of a cold-rolled and annealed equiatomic TiNi alloy. <i>Scripta Materialia</i> , 2005, 52, 1341-1346.	2.6	39
8	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.	1.9	38
9	Internal friction of B2 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.	2.6	36
10	Low-frequency damping properties of near-stoichiometric Ni2MnGa shape memory alloys under isothermal conditions. <i>Scripta Materialia</i> , 2008, 59, 1039-1042.	2.6	26
11	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.	2.8	24
12	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.	1.7	24
13	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.	2.8	21
14	Biodegradability and anticoagulant properties of chitosan and sulfonated chitosan films coated on TiNi alloys. <i>Surface and Coatings Technology</i> , 2012, 206, 4959-4963.	2.2	20
15	Nanohardness, corrosion and protein adsorption properties of CuAlO2 films deposited on 316L stainless steel for biomedical applications. <i>Applied Surface Science</i> , 2014, 289, 455-461.	3.1	20
16	Inherent internal friction of Ti50Ni50-xCux shape memory alloys measured under isothermal conditions. <i>Journal of Alloys and Compounds</i> , 2014, 586, 69-73.	2.8	20
17	Crystallization Kinetics of Ti50Ni25Cu25 Melt-Spun Amorphous Ribbons. <i>Materials Transactions</i> , 2006, 47, 2489-2492.	0.4	19
18	Inherent Internal Friction of Ti51Ni39Cu10 Shape Memory Alloy. <i>Materials Transactions</i> , 2007, 48, 2143-2147.	0.4	19

#	ARTICLE	IF	CITATIONS
19	Martensitic transformation of annealed Ti ₅₀ Ni ₂₅ Cu ₂₅ melt-spun ribbons. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 476, 316-321.	2.6	19
20	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.	2.6	19
21	Shape memory characteristics of as-spun and annealed Ti ₅₁ Ni ₄₉ crystalline ribbons. <i>Intermetallics</i> , 2010, 18, 965-971.	1.8	18
22	Low-frequency damping properties of eutectic Sn ₆₁ Bi and In ₆₁ Sn solders. <i>Scripta Materialia</i> , 2011, 64, 757-760.	2.6	18
23	Effect of Co additions on the damping properties of Cu ₄₀ Al ₄₀ Ni shape memory alloys. <i>Journal of Alloys and Compounds</i> , 2020, 847, 156560.	2.8	18
24	Low-frequency damping properties of dual-phase Mg _x Li _{0.5} Zn alloys. <i>Journal of Alloys and Compounds</i> , 2008, 465, 210-215.	2.8	17
25	Low-frequency damping properties of as-extruded Mg _{11.2} Li _{0.95} Al _{0.43} Zn magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 6020-6025.	2.6	17
26	Internal friction of Cu _{13.5} Al ₄ Ni shape memory alloy measured by dynamic mechanical analysis under isothermal conditions. <i>Materials Letters</i> , 2010, 64, 93-95.	1.3	16
27	Damping Characteristics of the Inherent and Intrinsic Internal Friction of Ti ₅₀ Ni ₅₀ and Fe ₄₀ Co ₄₀ Ni ₂₀ Shape Memory Alloys. <i>Materials Transactions</i> , 2016, 57, 351-356.		
28	Surface and Protein Adsorption Properties of 316L Stainless Steel Modified with Polycaprolactone Film. <i>Polymers</i> , 2017, 9, 545.	2.0	13
29	Cost-Effective Surface Modification of Carbon Cloth Electrodes for Microbial Fuel Cells by Candle Soot Coating. <i>Coatings</i> , 2018, 8, 468.	1.2	13
30	Isothermal effect on internal friction of Ti ₅₀ Ni ₅₀ alloy measured by step cooling method in dynamic mechanical analyzer. <i>Journal of Alloys and Compounds</i> , 2008, 459, 155-159.	2.8	12
31	Precipitate-induced R-phase in martensitic transformation of as-spun and annealed Ti ₅₁ Ni ₄₉ ribbons. <i>Journal of Alloys and Compounds</i> , 2010, 505, 76-80.	2.8	12
32	Effects of Cold-Rolling/Aging Treatments on the Shape Memory Properties of Ti _{49.3} Ni _{50.7} Shape Memory Alloy. <i>Materials</i> , 2017, 10, 704.	1.3	12
33	Selective leaching and surface properties of Ti ₅₀ Ni _{50-x} Cu _x (x=0-20at.%) shape memory alloys for biomedical applications. <i>Applied Surface Science</i> , 2015, 324, 106-113.	3.1	11
34	Damping Characteristics of Inherent and Intrinsic Internal Friction of Cu-Zn-Al Shape Memory Alloys. <i>Metals</i> , 2017, 7, 397.	1.0	11
35	Low frequency damping properties of a NiMnTi shape memory alloy. <i>Materials Letters</i> , 2011, 65, 134-136.	1.3	10
36	Selective leaching and surface properties of CoNiCr-based medium-/high-entropy alloys. <i>Applied Surface Science</i> , 2020, 515, 146044.	3.1	10

#	ARTICLE	IF	CITATIONS
37	Effect of Al/Cu ratios on the optical, electrical, and electrochemical properties of Cu ²⁺ -Al ³⁺ -Ca ²⁺ -O thin films. <i>Journal of Alloys and Compounds</i> , 2014, 609, 111-115.	2.8	9
38	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.	2.2	9
39	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.	2.6	8
40	Damping Characteristics of Ti50Ni50-xCux (x = 0-30 at.%) Shape Memory Alloys at a Low Frequency. <i>Materials</i> , 2014, 7, 4574-4586.	1.3	8
41	Effect of reinforced multiwall carbon nanotubes on the damping characteristics of Sn-Ag-Cu lead-free solder. <i>Materials Letters</i> , 2020, 276, 128196.	1.3	8
42	Dynamically programmable surface micro-wrinkles on PDMS-SMA composite. <i>Smart Materials and Structures</i> , 2014, 23, 115007.	1.8	7
43	Damping Capacities of Ti ₅₀ Ni _{50-x} Cu _x Shape Memory Alloys Measured under Temperature, Strain, and Frequency Sweeps. <i>Materials Transactions</i> , 2015, 56, 193-199.	0.4	7
44	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.	3.8	6
45	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.	2.2	6
46	Crystallization temperature and activation energy of as-spun Ti52.0Ni38.5Cu9.5 ribbon. <i>Thin Solid Films</i> , 2011, 519, 5302-5306.	0.8	5
47	Damping characteristics of TiNi shape memory alloy wires reinforced epoxy resin. <i>Journal of Reinforced Plastics and Composites</i> , 2011, 30, 1931-1938.	1.6	5
48	Characteristics of TiNi Shape Memory Foils Fabricated by Double Cathodes Electrochemical Polishing. <i>Journal of Materials Engineering and Performance</i> , 2012, 21, 2670-2674.	1.2	4
49	Surface properties of chitosan/montmorillonite films for biomedical applications. <i>Polymers and Polymer Composites</i> , 2020, , 096739112096843.	1.0	4
50	Damping characteristics of the Ti-rich TiNi melt-spun ribbon measured by using a dynamic mechanical analyzer. <i>Physica Scripta</i> , 2010, T139, 014012.	1.2	3
51	Damping Properties of Homogenized and Cold-Rolled Mg-14.3Li-0.8Zn β -Phase Magnesium Alloy. <i>Materials Transactions</i> , 2012, 53, 407-411.	0.4	3
52	Selective leaching and surface properties of TiNiFe shape-memory alloys. <i>Materiali in Tehnologije</i> , 2017, 51, 251-257.	0.3	3
53	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.	2.8	2
54	Selective Leaching and Surface Properties of Cu ²⁺ -Al ³⁺ -Ni Shape Memory Alloys. <i>Materials Transactions</i> , 2018, 59, 787-792.	0.4	2

#	ARTICLE	IF	CITATIONS
55	Martensitic transformation and damping capacities of Ni ₅₀ Mn ₄₀ xSn _{10+x} (x=0-4 at.%) ferromagnetic shape memory alloys. Journal of Materials Research, 2021, 36, 1686-1694.	1.2	2
56	Damping characteristics of as-spun and annealed Ti ₅₁ Ni ₄₉ ribbons measured by dynamic mechanical analysis. Journal of Alloys and Compounds, 2013, 577, S175-S178.	2.8	1
57	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.	0.4	1
58	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, 59-64.	0.7	1
59	Damping Characteristics of Shape Memory Alloys on Their Inherent and Intrinsic Internal Friction. , 2019, , 1565-1593.		1
60	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.	0.4	0
61	Plasmas Processes Applied on Metals and Alloys. Metals, 2020, 10, 349.	1.0	0
62	Heat Treatment Effect on the Surface Properties of Carbon Cloth Electrode for Microbial Fuel Cell. Medziagotyra, 2021, 27, 361-366.	0.1	0
63	Annealing Effect on Transformation Behavior of Ni-Rich Ti ₄₉ Ni ₄₁ Cu ₁₀ Shape Memory Alloy. , 0, , 329-333.		0
64	Damping Characteristics of Shape Memory Alloys on Their Inherent and Intrinsic Internal Friction. , 2018, , 1-29.		0