Chih-Hsuan Chen

List of Publications by Year
in descending order

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28	325	933447 10	888059 17
papers	citations	h-index	g-index

28	28	28	216
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Shape memory characteristics of (TiZrHf)50Ni25Co10Cu15 high entropy shape memory alloy. Scripta Materialia, 2019, 162, 185-189.	5.2	72
2	Effect of Solution Treatment on the Shape Memory Functions of (TiZrHf)50Ni25Co10Cu15 High Entropy Shape Memory Alloy. Entropy, 2019, 21, 1027.	2.2	22
3	Microstructure and Mechanical Properties of (TiZrHf)50(NiCoCu)50 High Entropy Alloys. Metals and Materials International, 2020, 26, 617-629.	3.4	21
4	Mechanical and elastocaloric effect of aged Ni-rich TiNi shape memory alloy under load-controlled deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 788, 139554.	5.6	20
5	Inhomogeneous martensitic transformation behavior and elastocaloric effect in a bicrystal Cu-Al-Mn shape memory alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 800, 140386.	5.6	17
6	Evolutions of superelasticity and elastocaloric effect of Ti50Ni48Fe2 and aged-hardened Ni-rich Ti49.2Ni49.3Fe1.5 shape memory alloys under cyclic compressive deformation. Journal of Alloys and Compounds, 2022, 893, 162352.	5.5	13
7	Strain glass and stress-induced martensitic transformation characteristics of Ti40Zr10Ni40Co5Cu5 multi-principal element alloy. Scripta Materialia, 2020, 186, 127-131.	5.2	12
8	The Analysis of Superelasticity and Microstructural Evolution in NiTi Single Crystals by Molecular Dynamics. Materials, 2019, 12, 57.	2.9	11
9	Nanoindentation studies on precipitation hardening of Ti-rich Ti50.4Ni49.5Si0.1 shape memory ribbons. Intermetallics, 2013, 36, 109-117.	3.9	10
10	A study on the crystallization behavior of amorphous Ti50Ni25Cu25 shape memory ribbon by X-ray diffraction measurement. Intermetallics, 2018, 93, 347-354.	3.9	10
11	Compressive stress-induced martensitic transformation and elastocaloric effect in Cu-Al-Mn single-crystal alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 840, 142945.	5.6	10
12	Martensitic transformation and pseudoelasticity of aged Ti50.1Ni49.7Si0.2 shape memory ribbon. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 593, 85-91.	5.6	9
13	Improved functional stability of Ti-rich TiNi shape memory ribbon prepared by melt-spinning. Journal of Alloys and Compounds, 2020, 819, 152988.	5.5	9
14	Classification and analysis of trigonal martensite laminate twins in shape memory alloys. Acta Materialia, 2015, 89, 193-204.	7.9	8
15	Transformational and pseudoelastic characteristics of melt-spun Ti50Ni25Cu25 shape memory ribbon crystallized and aged at a low temperature. Journal of Alloys and Compounds, 2018, 753, 655-663.	5.5	8
16	Precipitation hardening by nanoscale Ti2Ni phase in high Ti-rich Ti52.6Ni46.8Si0.6 melt-spun ribbon. Journal of Alloys and Compounds, 2019, 810, 151904.	5.5	8
17	Superelasticity of TiNi-based shape memory alloys at micro/nanoscale. Journal of Materials Research, 2014, 29, 2717-2726.	2.6	7
18	Pseudoelasticity response of aged Ti50Ni25Cu25 shape memory ribbon under nanoindentation tests. Intermetallics, 2015, 64, 78-85.	3.9	7

#	Article	IF	Citations
19	On the Decrease in Transformation Stress in a Bicrystal Cu-Al-Mn Shape-Memory Alloy during Cyclic Compressive Deformation. Materials, 2021, 14, 4439.	2.9	7
20	Shape Memory Properties and Microstructure of New Iron-Based FeNiCoAlTiNb Shape Memory Alloys. Crystals, 2021, 11, 1253.	2.2	7
21	Full-field stress and strain measurements revealing energy dissipation characteristics in martensitic band of Cu-Al-Mn shape memory alloy. Materials Today Communications, 2020, 24, 101321.	1.9	6
22	Alloying-assisted precipitation strengthening of Ti50Ni15Pd25Cu10 shape memory alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 821, 141636.	5.6	6
23	A study of the structure of G-P zones in Ti-rich TiNi shape memory melt-spun ribbons. Philosophical Magazine, 2013, 93, 3167-3176.	1.6	5
24	The characteristics of precipitation hardening and the shape memory effect in aged Ti 50.6 Ni 39.4 Cu 9.8 Si 0.2 shape memory ribbons. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 613, 317-325.	5.6	5
25	Observations of self-accommodated R-phase morphologies in a Ti 50.3 Ni 48.2 Fe 1.5 shape memory alloy. Materials Characterization, 2015, 107, 202-210.	4.4	4
26	Surface Modification of FeCoNiCr Medium-Entropy Alloy (MEA) Using Octadecyltrichlorosilane and Atmospheric-Pressure Plasma Jet. Polymers, 2020, 12, 788.	4.5	4
27	Phase formations and microstructures of Ti20Zr15Hf15Ni35Cu15 high-entropy shape memory alloy under different aging conditions. Materials Today Advances, 2022, 14, 100223.	5.2	4
28	Microstructure and Superelastic Properties of FeNiCoAlTi Single Crystals with the <100> Orientation under Tension. Crystals, 2022, 12, 548.	2.2	3