

Masaki Tahara

List of Publications by Year in descending order

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78
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citing authors

#	ARTICLE	IF	CITATIONS
1	Investigations of mechanical properties and deformation behaviors of the Cr modified Ti–Au shape memory alloys. <i>Journal of Alloys and Compounds</i> , 2022, 897, 163134.	2.8	6
2	Investigations of Deformation Behavior and Microstructure of Al Tailored Ti–Mo High Temperature Shape Memory Alloys during Isothermal Holding at 393 K. <i>Micro</i> , 2022, 2, 113-122.	0.9	4
3	Achievement of Room Temperature Superelasticity in Ti-Mo-Al Alloy System via Manipulation of β Phase Stability. <i>Materials</i> , 2022, 15, 861.	1.3	3
4	New dislocation dissociation accompanied by anti-phase shuffling in the β martensite phase of a Ti alloy. <i>Acta Materialia</i> , 2022, 227, 117705.	3.8	4
5	Enhancement of the superelastic behavior of the Ti–Au–Cr–based shape memory alloys via the manipulations of annealing treatments and Ta additions. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 847, 143312.	2.6	5
6	Phase constituent and microstructure manipulations via annealing for enhancements of mechanical property and functionalities of Ti–Au–Cr–Ta biomedical shape memory alloys. <i>Journal of Alloys and Compounds</i> , 2022, 920, 166016.	2.8	5
7	Promoted mechanical properties and functionalities via Ta-tailored Ti–Au–Cr shape memory alloys towards biomedical applications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2022, 133, 105358.	1.5	4
8	Effect of 3d transition metal additions on the phase constituent, mechanical properties, and shape memory effect of near-eutectoid Ti–4Au biomedical alloys. <i>Journal of Alloys and Compounds</i> , 2021, 857, 157599.	2.8	16
9	Elaboration of magnetostrain-active NiMnGa particles/polymer layered composites. <i>Materials Letters</i> , 2021, 289, 129427.	1.3	9
10	Influence of the precipitates on the shape memory effect and superelasticity of the near-eutectoid Ti–Au–Fe alloy towards biomaterial applications. <i>Intermetallics</i> , 2021, 133, 107180.	1.8	11
11	Mechanical Properties Enhancement of the Au-Cu-Al Alloys via Phase Constitution Manipulation. <i>Materials</i> , 2021, 14, 3122.	1.3	1
12	Effect of Cr additions on the phase constituent, mechanical properties, and shape memory effect of near-eutectoid Ti–4Au towards the biomaterial applications. <i>Journal of Alloys and Compounds</i> , 2021, 867, 159037.	2.8	18
13	Microstructure of β dual phase formed from isothermal β phase via novel decomposition pathway in metastable β -Ti alloy. <i>Journal of Alloys and Compounds</i> , 2021, 868, 159237.	2.8	11
14	Effects of Cr and Sn additives on the martensitic transformation and deformation behavior of Ti-Cr-Sn biomedical shape memory alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 822, 141668.	2.6	10
15	Evaluations of mechanical properties and shape memory behaviors of the aging-treated Ti–Au–Mo alloys. <i>Materials Chemistry and Physics</i> , 2021, 269, 124775.	2.0	5
16	Enhancement of the shape memory effect by the introductions of Cr and Sn into the β -Ti alloy towards the biomedical applications. <i>Journal of Alloys and Compounds</i> , 2021, 875, 160088.	2.8	11
17	Enhancement of mechanical properties and shape memory effect of Ti–Cr–based alloys via Au and Cu modifications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 123, 104707.	1.5	9
18	Mechanical property enhancement of the Ag-tailored Au–Cu–Al shape memory alloy via the ductile phase toughening. <i>Intermetallics</i> , 2021, 139, 107349.	1.8	3

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19	Investigations of Effects of Intermetallic Compound on the Mechanical Properties and Shape Memory Effect of Ti–Au–Ta Biomaterials. <i>Materials</i> , 2021, 14, 5810.	1.3	7
20	Evaluation of the Shape Memory Effect by Micro-Compression Testing of Single Crystalline Ti-27Nb Ni-Free Alloy. <i>Materials</i> , 2020, 13, 110.	1.3	4
21	Effect of cross-sectional area reduction rate and alloy composition on the formation of <001>-fiber texture in Ti-Mo-Al-Zr alloy wire. <i>MATEC Web of Conferences</i> , 2020, 321, 11019.	0.1	0
22	Microstructural Evolution in Metastable Ti–Mo–Sn–Al Alloy During Isothermal Aging. <i>Advanced Engineering Materials</i> , 2019, 21, 1900416.	1.6	15
23	Phase Reaction and Diffusion Behavior between AuTi and CoTi Intermetallic Compounds. <i>Materials Transactions</i> , 2019, 60, 631-635.	0.4	1
24	Isothermal martensitic transformation behavior of Ti–Nb–O alloy. <i>Materials Letters</i> , 2019, 257, 126691.	1.3	8
25	Compressive Deformation Behavior and Magnetic Susceptibility of Au₂/sub>CuAl Biomedical Shape Memory Alloys. <i>Materials Transactions</i> , 2019, 60, 662-665.	0.4	2
26	Goss Orientation Evolution in Ti–5.5Mo–8Al–6Zr Shape Memory Alloy upon Heat Treatment. <i>Materials Transactions</i> , 2019, 60, 1890-1897.	0.4	1
27	An <i>In Situ</i> Observation of Slip Deformation in a Compressed Ti-Mo-Al Single Crystal. <i>Materials Science Forum</i> , 2018, 941, 1463-1467.	0.3	0
28	Development of <001>-fiber texture in cold-groove-rolled Ti-Mo-Al-Zr biomedical alloy. <i>Materialia</i> , 2018, 1, 52-61.	1.3	10
29	Brillouin characterization of slimmed polymer optical fibers for strain sensing with extremely wide dynamic range. <i>Optics Express</i> , 2018, 26, 28030.	1.7	6
30	Plastic Deformation Behavior of Single Crystalline Martensite in β -Titanium Shape Memory Alloy. <i>Materia Japan</i> , 2018, 57, 345-348.	0.1	0
31	Deformation of Biomedical AuCuAl-Based Shape Memory Alloy Micropillars. <i>MRS Advances</i> , 2017, 2, 1411-1415.	0.5	2
32	Effect of Sn and Zr content on superelastic properties of Ti-Mo-Sn-Zr biomedical alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 704, 72-76.	2.6	24
33	Plastic deformation behaviour of single-crystalline martensite of Ti-Nb shape memory alloy. <i>Scientific Reports</i> , 2017, 7, 15715.	1.6	31
34	Formation process of the incompatible martensite microstructure in a beta-titanium shape memory alloy. <i>Acta Materialia</i> , 2017, 124, 351-359.	3.8	15
35	Effect of Sn and Zr addition on the martensitic transformation behavior of Ti-Mo shape memory alloys. <i>Journal of Alloys and Compounds</i> , 2017, 695, 76-82.	2.8	32
36	Micro-compression study of Ni-Fe(Co)-Ga magnetic shape memory alloy for MEMS sensors. , 2017, , .		1

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37	Martensitic Transformation and Mechanical Properties of AuCuAl-Based Biomedical Shape Memory Alloys Containing Various Quaternary Elements. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2016, 80, 71-76.	0.2	4
38	Compatibility at Junction Planes between Habit Plane Variants with Internal Twin in Ti-Ni-Pd Shape Memory Alloy. Materials Transactions, 2016, 57, 233-240.	0.4	11
39	Lattice Parameter Dependence of Kinematic Compatibility in Martensite Microstructure of Cubic-Orthorhombic Transformation. Materials Transactions, 2016, 57, 751-754.	0.4	0
40	Phase Constitution and Martensitic Transformation Behavior of Au-51Ti-18Co Biomedical Shape Memory Alloy Heat-Treated at 1173K to 1373K. Materials Science Forum, 2016, 879, 256-261.	0.3	1
41	Role of oxygen atoms in β martensite of Ti-20 at.% Nb alloy. Scripta Materialia, 2016, 112, 15-18.	2.6	40
42	Anisotropy of Young's Modulus in a Ti-Mo-Al-Zr Alloy with Goss Texture. Materials Transactions, 2016, 57, 1998-2001.	0.4	8
43	Effect of Zr Addition on Mechanical and Shape Memory Properties of Ti-5Mo-3Sn Alloys. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2015, 80, 37-44.	0.2	2
44	Effect of Annealing Temperature on Texture Formation of Ti-4Au-5Cr-8Zr Biomedical Superelastic Alloy. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2015, 80, 45-50.	0.2	2
45	Effect of Al and Cu Contents on Mechanical Properties of Au-Cu-Al Shape Memory Alloys. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2015, 80, 27-36.	0.2	7
46	Effect of Annealing Temperature on Microstructure and Superelastic Properties of Ti-Au-Cr-Zr Alloy. Materials Transactions, 2015, 56, 404-409.	0.4	18
47	Oxidation Behavior of Au-55 mol%Ti High Temperature Shape Memory Alloy during Heating in Ar-50 vol%O ₂ Environment. Materials Transactions, 2015, 56, 600-604.	0.4	3
48	Effect of Nb Addition on Martensitic Transformation Behavior of AuTi-15Co Based Biomedical Shape Memory Alloys. Materials Transactions, 2015, 56, 429-434.	0.4	5
49	Preferential Morphology of Self-accommodation Microstructure in Ti-Ni-Pd Shape Memory Alloy. Materials Today: Proceedings, 2015, 2, S549-S552.	0.9	4
50	The Effect of Aging Temperature on Morphology of β Phase in Ti-3Mo-6Sn-5Zr Shape Memory Alloy. Materials Today: Proceedings, 2015, 2, S817-S820.	0.9	1
51	Deformation Behavior of Ti-4Au-5Cr-8Zr Superelastic Alloy With or Without Containing Ti ₃ Au Precipitates. Materials Today: Proceedings, 2015, 2, S821-S824.	0.9	5
52	Effect of Sn Content on Phase Constitution and Mechanical Properties of Ti-Cr-Sn Shape Memory Alloys. Materials Today: Proceedings, 2015, 2, S825-S828.	0.9	7
53	Formation Process of Triangular Morphology of Self-Accommodation Martensite in Ti-Nb-Al Shape Memory Alloy. MATEC Web of Conferences, 2015, 33, 06001.	0.1	0
54	Phase Constituent and Reverse Martensitic Transformation Temperature of PtTi-CoTi Diffusion Couple Heat-Treated at 1373K. Materials Research Society Symposia Proceedings, 2015, 1760, 163.	0.1	3

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55	Incompatibility of Martensite Variant Clusters in Self-accommodation Microstructure in Ti-Ni-Pd High Temperature Shape Memory Alloy. Materials Research Society Symposia Proceedings, 2015, 1760, 193.	0.1	0
56	Wide-range temperature dependences of Brillouin scattering properties in polymer optical fiber. Japanese Journal of Applied Physics, 2014, 53, 042502.	0.8	32
57	Martensitic Transformation and Mechanical Properties of Fe-added Au-Cu-Al Shape Memory Alloy with Various Heat Treatment Conditions. Materials Research Society Symposia Proceedings, 2014, 1760, 1.	0.1	4
58	Heating-induced martensitic transformation and time-dependent shape memory behavior of Ti-23Nb-2Zr-0.7Ta-1.2O alloy. Acta Materialia, 2014, 80, 317-326.	3.8	44
59	Compressive Fracture Behavior of Bi-added Ni ₅₀ Mn ₂₈ Ga ₂₂ Ferromagnetic Shape Memory Alloys. Materials Research Society Symposia Proceedings, 2013, 1516, 139-144.	0.1	9
60	Nanodomain structure and its effect on abnormal thermal expansion behavior of a Ti-23Nb-2Zr-0.7Ta-1.2O alloy. Acta Materialia, 2013, 61, 4874-4886.	3.8	102
61	Role of interstitial atoms in the microstructure and non-linear elastic deformation behavior of Ti-Nb alloy. Journal of Alloys and Compounds, 2013, 577, S404-S407.	2.8	28
62	The strain rate sensitivity behavior in Ti based shape memory alloys. Transactions of the Materials Research Society of Japan, 2013, 38, 545-548.	0.2	1
63	Martensitic transformation and superelastic properties of titanium alloys containing interstitial elements. Keikinzoku/Journal of Japan Institute of Light Metals, 2012, 62, 257-262.	0.1	4
64	Lattice modulation and superelasticity in oxygen-added β -Ti alloys. Acta Materialia, 2011, 59, 6208-6218.	3.8	223
65	Effect of nitrogen addition and annealing temperature on superelastic properties of Ti-Nb-Zr-Ta alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 6844-6852.	2.6	50
66	SHAPE MEMORY EFFECT AND CYCLIC DEFORMATION BEHAVIOR OF Ti-Nb-N ALLOYS. Functional Materials Letters, 2009, 02, 79-82.	0.7	37
67	Cyclic deformation behavior of a Ti-26 at.% Nb alloy. Acta Materialia, 2009, 57, 2461-2469.	3.8	103
68	Effect of Nitrogen Addition on Superelasticity of Ti-Zr-Nb Alloys. Materials Transactions, 2009, 50, 2726-2730.	0.4	28
69	Effect of Nitrogen Addition on Superelasticity of Ti-Zr-Nb Alloys. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2008, 72, 955-959.	0.2	4
70	Effect of Cold-Rolling Rate on Texture in Ti-Mo-Al-Zr Shape Memory Alloy. Materials Science Forum, 0, 738-739, 262-266.	0.3	7
71	Martensitic Transformation and Related Properties of AuTi-FeTi Pseudobinary Alloys. Advanced Materials Research, 0, 922, 25-30.	0.3	6
72	Mechanical Properties of Ti-Fe-Sn Biomedical Alloys with or without Aging Treatment. Materials Science Forum, 0, 783-786, 2423-2428.	0.3	1

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73	Determination of Preferred Morphology of Self-Accommodating Martensite in Ti-Nb-Al Shape Memory Alloy Using Optical Microscopy. Advanced Materials Research, 0, 922, 260-263.	0.3	1
74	Effect of Heat Treatment Condition on Texture in Ti-Mo-Al-Zr Shape Memory Alloy. Advanced Materials Research, 0, 922, 622-625.	0.3	3
75	Effect of Zr Addition on Martensitic Transformation in TiMoSn Alloy. Advanced Materials Research, 0, 922, 137-142.	0.3	5
76	Role of Interstitial Oxygen Atom on Martensitic Transformation of Ti-Nb Alloy. Advances in Science and Technology, 0, , .	0.2	1