Yuji Sutou

List of Publications by Year
in descending order

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205 papers	9,484 citations	76326 40 h-index	40979 93 g-index
210 all docs	210 docs citations	210 times ranked	4690 citing authors

#	Article	IF	Citations
1	Magnetic-field-induced shape recovery by reverse phase transformation. Nature, 2006, 439, 957-960.	27.8	1,631
2	Magnetic and martensitic transformations of NiMnX(X=In,Sn,Sb) ferromagnetic shape memory alloys. Applied Physics Letters, 2004, 85, 4358.	3.3	990
3	Ferrous Polycrystalline Shape-Memory Alloy Showing Huge Superelasticity. Science, 2010, 327, 1488-1490.	12.6	441
4	Metamagnetic shape memory effect in a Heusler-type Ni43Co7Mn39Sn11 polycrystalline alloy. Applied Physics Letters, 2006, 88, 192513.	3.3	378
5	Martensitic and Magnetic Transformation Behaviors in Heusler-Type NiMnIn and NiCoMnIn Metamagnetic Shape Memory Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2007, 38, 759-766.	2.2	268
6	Effect of magnetic field on martensitic transition of Ni46Mn41In13 Heusler alloy. Applied Physics Letters, 2006, 88, 122507.	3.3	254
7	Effect of grain size and texture on pseudoelasticity in Cuâ€“Alâ€“Mn-based shape memory wire. Acta Materialia, 2005, 53, 4121-4133.	7.9	253
8	Relationship between deformation twinning and surface step formation in AZ31 magnesium alloys. Acta Materialia, 2010, 58, 4316-4324.	7.9	217
9	Abnormal Grain Growth Induced by Cyclic Heat Treatment. Science, 2013, 341, 1500-1502.	12.6	216
10	High-strength Fe–20Mn–Al–C-based Alloys with Low Density. ISIJ International, 2010, 50, 893-899.	1.4	194
11	A lightweight shape-memory magnesium alloy. Science, 2016, 353, 368-370.	12.6	162
12	Characteristics of Cuâ€“Alâ€“Mn-based shape memory alloys and their applications. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 378, 278-282.	5.6	144
13	Roles of deformation twinning and dislocation slip in the fatigue failure mechanism of AZ31 Mg alloys. Scripta Materialia, 2010, 63, 747-750.	5.2	138
14	Stress-strain characteristics in Niâ€“Gaâ€“Fe ferromagnetic shape memory alloys. Applied Physics Letters, 2004, 84, 1275-1277.	3.3	133
15	The role of deformation twinning in the fracture behavior and mechanism of basal textured magnesium alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 600, 145-152.	5.6	130
16	Enhancement of superelasticity in Cu-Al-Mn-Ni shape-memory alloys by texture control. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2002, 33, 2817-2824.	2.2	124
17	Grain size dependence of pseudoelasticity in polycrystalline Cuâ€“Alâ€“Mn-based shape memory sheets. Acta Materialia, 2013, 61, 3842-3850.	7.9	122
18	Magnetic and Martensitic Phase Transformations in a Ni₅₄Ga₂₇Fe₁₉ Alloy. Materials Transactions, 2002, 43, 2360-2362.	1.2	120

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19	Ductile Cuâ€“Alâ€“Mn based shape memory alloys: General properties and applications. Materials Science and Technology, 2008, 24, 896-901.	1.6	115
20	Potential of superelastic Cuâ€“Alâ€“Mn alloy bars for seismic applications. Earthquake Engineering and Structural Dynamics, 2011, 40, 107-115.	4.4	102
21	Metamagnetic shape memory effect in NiMn-based Heusler-type alloys. Journal of Materials Chemistry, 2008, 18, 1837.	6.7	96
22	Ordering, Martensitic and Ferromagnetic Transformations in Ni–Al–Mn Heusler Shape Memory Alloys. Materials Transactions, JIM, 2000, 41, 943-949.	0.9	94
23	Effects of ageing on bainitic and thermally induced martensitic transformations in ductile Cuâ€“Alâ€“Mn-based shape memory alloys. Acta Materialia, 2009, 57, 5748-5758.	7.9	89
24	Pb-free high temperature solders for power device packaging. Microelectronics Reliability, 2006, 46, 1932-1937.	1.7	87
25	Inverse Resistance Change Cr₂Ge₂Te₆-Based PCRAM Enabling Ultralow-Energy Amorphization. ACS Applied Materials & Interfaces, 2018, 10, 2725-2734.	8.0	85
26	Effect of alloying elements on the shape memory properties of ductile Cuâ€“Alâ€“Mn alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1999, 273-275, 375-379.	5.6	84
27	Phase transformations in Niâ€“Gaâ€“Fe ferromagnetic shape memory alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 378, 403-408.	5.6	81
28	Magnetic transformation of Ni2AlMn heusler-type shape memory alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1999, 30, 2721-2723.	2.2	78
29	Effects of aging on stress-induced martensitic transformation in ductile Cuâ€“Alâ€“Mn-based shape memory alloys. Acta Materialia, 2009, 57, 5759-5770.	7.9	73
30	Crystallization process and thermal stability of Ge1Cu2Te3 amorphous thin films for use as phase change materials. Acta Materialia, 2012, 60, 872-880.	7.9	73
31	Martensitic transition and superelasticity of Coâ€“Niâ€“Al ferromagnetic shape memory alloys with Î²+Î³ two-phase structure. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 438-440, 1054-1060.	5.6	71
32	Effects of grain size and texture on damping properties of Cuâ€“Alâ€“Mn-based shape memory alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 438-440, 743-746.	5.6	69
33	Magnetic field-induced reversible variant rearrangement in Feâ€“Pd single crystals. Acta Materialia, 2004, 52, 5083-5091.	7.9	65
34	Experimental determination and thermodynamic calculation of phase equilibria in the Feâˆ’Mnâˆ’Al system. Journal of Phase Equilibria and Diffusion, 2006, 27, 54-62.	1.4	58
35	Ordering and martensitic transformations of Ni2AlMn heusler alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1998, 29, 2225-2227.	2.2	55
36	Feasibility of Cuâ€“Alâ€“Mn superelastic alloy bars as reinforcement elements in concrete beams. Smart Materials and Structures, 2013, 22, 025025.	3.5	55

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37	Invar-type effect induced by cold-rolling deformation in shape memory alloys. Applied Physics Letters, 2002, 80, 4348-4350.	3.3	53
38	Development of medical guide wire of Cu-Al-Mn-base superelastic alloy with functionally graded characteristics. Journal of Biomedical Materials Research Part B, 2004, 69B, 64-69.	3.1	53
39	Optical contrast and laser-induced phase transition in GeCu2Te3 thin film. Applied Physics Letters, 2013, 102, .	3.3	51
40	Crystallization and electrical characteristics of Ge1Cu2Te3 films for phase change random access memory. Thin Solid Films, 2012, 520, 4389-4393.	1.8	49
41	Determination of Î±/Î² phase boundaries and mechanical characterization of Mg-Sc binary alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 670, 335-341.	5.6	41
42	Phase Equilibria and Phase Transition of the Niâ€“Feâ€“Ga Ferromagnetic Shape Memory Alloy System. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2007, 38, 767-776.	2.2	40
43	Age-hardening effect by phase transformation of high Sc containing Mg alloy. Materials Letters, 2015, 161, 5-8.	2.6	40
44	Shape memory and magnetic properties of Coâ€“Al ferromagnetic shape memory alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 438-440, 1045-1049.	5.6	39
45	Influence of Co Addition on Martensitic and Magnetic Transitions in Ni-Fe-Ga β Based Shape Memory Alloys. Materials Transactions, 2005, 46, 734-737.	1.2	38
46	Origin of the unusual reflectance and density contrasts in the phase-change material Cu₂GeTe₃. Applied Physics Letters, 2013, 102, 224105.	3.3	37
47	Two-way shape memory effect induced by cold-rolling in Tiâ€“Ni and Tiâ€“Niâ€“Fe alloys. Scripta Materialia, 2005, 52, 311-316.	5.2	36
48	Reversible displacive transformation in MnTe polymorphic semiconductor. Nature Communications, 2020, 11, 85.	12.8	34
49	Martensitic and magnetic transformations of Niâ€“Gaâ€“Feâ€“Co ferromagnetic shape memory alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 438-440, 970-973.	5.6	32
50	Rate-dependent response of superelastic Cuâ€“Alâ€“Mn alloy rods to tensile cyclic loads. Smart Materials and Structures, 2012, 21, 032002.	3.5	32
51	Enhanced fatigue properties of cast AZ80 Mg alloy processed by cyclic torsion and low-temperature annealing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 696, 52-59.	5.6	32
52	Fourfold coordinated Te atoms in amorphous GeCu2Te3 phase change material. Scripta Materialia, 2013, 68, 122-125.	5.2	31
53	Two-Way Shape Memory Effect Induced by Bending Deformation in Ductile Cu-Al-Mn Alloys. Materials Transactions, 2002, 43, 1676-1683.	1.2	29
54	Damping Properties of Ductile Cu-Al-Mn-Based Shape Memory Alloys. Materials Transactions, 2005, 46, 118-122.	1.2	29

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55	Shape memory effect in the ferromagnetic Coâ€“14at.% Al alloy. Scripta Materialia, 2005, 52, 565-569.	5.2	29
56	Superplasticity of Cu-Al-Mn-Ni Shape Memory Alloy. Materials Transactions, 2007, 48, 2914-2918.	1.2	29
57	Martensitic Transformation and Magnetic Properties of Cu-Ga-Mn β Alloys. Materials Transactions, 2004, 45, 2780-2784.	1.2	28
58	Martensitic Transformation in a Î²-Type Mgâ€“Sc Alloy. Shape Memory and Superelasticity, 2018, 4, 167-173.	2.2	28
59	Contact resistance change memory using N-doped Cr2Ge2Te6 phase-change material showing non-bulk resistance change. Applied Physics Letters, 2018, 112, .	3.3	28
60	Room temperature superelasticity in a lightweight shape memory Mg alloy. Scripta Materialia, 2019, 168, 114-118.	5.2	28
61	Development of the Co-Ni-Al ferromagnetic shape memory alloys. European Physical Journal Special Topics, 2003, 112, 1017-1020.	0.2	27
62	Effect of Nb Content on Martensitic Transformation Temperatures and Mechanical Properties of Ti-Ni-Nb Shape Memory Alloys for Pipe Joint Applications. Materials Transactions, 2007, 48, 445-450.	1.2	27
63	A simple method to treat an ingrowing toenail with a shapeâ€memory alloy device. Journal of Dermatological Treatment, 2008, 19, 291-292.	2.2	27
64	NiAl as a potential material for liner- and barrier-free interconnect in ultrasmall technology node. Applied Physics Letters, 2018, 113, .	3.3	26
65	Cr-Triggered Local Structural Change in Cr₂Ge₂Te₆ Phase Change Material. ACS Applied Materials & Interfaces, 2019, 11, 43320-43329.	8.0	26
66	Effect of grain size and texture on superelasticity of Cu-Al-Mn-based shape memory alloys. European Physical Journal Special Topics, 2003, 112, 511-514.	0.2	25
67	Effects of Adsorbed Moisture in SiO₂ Substrates on the Formation of a Mn Oxide Layer by Chemical Vapor Deposition. Journal of Physical Chemistry C, 2011, 115, 16731-16736.	3.1	24
68	Phase Change Characteristics in GeTeâ€“CuTe Pseudobinary Alloy Films. Journal of Physical Chemistry C, 2014, 118, 26973-26980.	3.1	24
69	Contact resistivity of amorphous and crystalline GeCu2Te3 to W electrode for phase change random access memory. Materials Science in Semiconductor Processing, 2016, 47, 1-6.	4.0	24
70	Electronic Structure of Transition-Metal Based Cu₂GeTe₃ Phase Change Material: Revealing the Key Role of Cu <i>d</i> Electrons. Chemistry of Materials, 2017, 29, 7440-7449.	6.7	24
71	Internal microstructure observation of enhanced grain-boundary sliding at room temperature in AZ31 magnesium alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 666, 94-99.	5.6	23
72	High-quality sputter-grown layered chalcogenide films for phase change memory applications and beyond. Journal Physics D: Applied Physics, 2020, 53, 284002.	2.8	23

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73	Mechanical properties of Tiâ€“6at.% Moâ€“4at.% Sn alloy wires and their application to medical guidewire. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 438-440, 1097-1100.	5.6	22
74	Stress-strain hysteresis and strain hardening during cyclic tensile test of Mg-0.6at%Y alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 678, 235-242.	5.6	22
75	Amorphous-to-Crystal Transition in Quasi-Two-Dimensional MoS₂: Implications for 2D Electronic Devices. ACS Applied Nano Materials, 2021, 4, 8834-8844.	5.0	22
76	Pdâ€“Inâ€“Fe shape memory alloy. Applied Physics Letters, 2007, 90, 261906.	3.3	21
77	CuAl2 thin films as a low-resistivity interconnect material for advanced semiconductor devices. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2019, 37, .	1.2	21
78	Elastic and Superelastic Properties of NiFeCoGa Fibers Grown by Micro-Pulling-Down Method. Materials Transactions, 2009, 50, 934-937.	1.2	20
79	Co and CoTi x for contact plug and barrier layer in integrated circuits. Microelectronic Engineering, 2018, 189, 78-84.	2.4	20
80	Shape Memory Effect Associated with FCC—HCP Martensitic Transformation in Co-Al Alloys. Materials Transactions, 2003, 44, 2732-2735.	1.2	19
81	Effect of Alloying Elements on fcc/hcp Martensitic Transformation and Shape Memory Properties in Co-Al Alloys. Materials Transactions, 2006, 47, 2381-2386.	1.2	19
82	Effect of prestrain on martensitic transformation in a Ti46.4Ni47.6Nb6.0 superelastic alloy and its application to medical stents. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2006, 76B, 179-183.	3.4	19
83	Barrier Properties of CVD Mn Oxide Layer to Cu Diffusion for 3-D TSV. IEEE Electron Device Letters, 2014, 35, 114-116.	3.9	19
84	Diffusion barrier property of MnSixOy layer formed by chemical vapor deposition for Cu advanced interconnect application. Thin Solid Films, 2015, 580, 56-60.	1.8	18
85	Martensitic transformation and shape memory effect in ausaged Feâ€“Niâ€“Siâ€“Co alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 438-440, 1030-1035.	5.6	17
86	Texture randomization of hexagonal close packed phase through hexagonal close packed/body centered cubic phase transformation in Mg-Sc alloy. Scripta Materialia, 2017, 128, 27-31.	5.2	17
87	Aging precipitation kinetics of Mg-Sc alloy with bcc+hcp two-phase. Journal of Alloys and Compounds, 2018, 747, 854-860.	5.5	17
88	Effects of Pre-Strain and Heat Treatment Temperature on Phase Transformation Temperature and Shape Recovery Stress of Ti-Ni-Nb Shape Memory Alloys for Pipe Joint Applications. Materials Transactions, 2008, 49, 1650-1655.	1.2	16
89	Electrical transport mechanism of the amorphous phase in Cr₂Ge₂Te₆ phase change material. Journal Physics D: Applied Physics, 2019, 52, 105103.	2.8	16
90	Dimensional transformation of chemical bonding during crystallization in a layered chalcogenide material. Scientific Reports, 2021, 11, 4782.	3.3	16

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91	Applicability of Cu-Al-Mn shape memory alloy bars to retrofitting of historical masonry constructions. Earthquake and Structures, 2011, 2, 233-256.	1.0	16
92	Magnetic field-induced reversible actuation using ferromagnetic shape memory alloys. Scripta Materialia, 2003, 48, 1415-1419.	5.2	15
93	Improved microstructure and ohmic contact of Nb electrode on n-type 4H-SiC. Thin Solid Films, 2012, 520, 6922-6928.	1.8	15
94	Bidirectional Selector Utilizing Hybrid Diodes for PCRAM Applications. Scientific Reports, 2019, 9, 20209.	3.3	15
95	Effectiveness of superelastic bars for seismic rehabilitation of clayâ€unit masonry walls. Earthquake Engineering and Structural Dynamics, 2013, 42, 725-741.	4.4	14
96	Wear and oxidation behavior of reactive sputtered Î´-(Ti,Mo)N films deposited at different nitrogen gas flow rates. Tribology International, 2015, 87, 32-39.	5.9	14
97	Optical and Electrical Properties of Î±-MnTe Thin Films Deposited Using RF Magnetron Sputtering. Materials Transactions, 2018, 59, 1506-1512.	1.2	14
98	Crystallization mechanism and kinetics of Cr2Ge2Te6 phase change material. MRS Communications, 2018, 8, 1167-1172.	1.8	14
99	Interdiffusion reliability and resistivity scaling of intermetallic compounds as advanced interconnect materials. Journal of Applied Physics, 2021, 129, .	2.5	14
100	Friction Properties of Medical Metallic Alloys on Soft Tissueâ€"Mimicking Poly(Vinyl Alcohol) Hydrogel Biomodel. Tribology Letters, 2013, 51, 311-321.	2.6	13
101	Aging Effect of Mg-Sc Alloy with Î±+Î² Two-Phase Microstructure. Materials Transactions, 2016, 57, 1119-1123.	1.2	13
102	Liner- and barrier-free NiAl metallization: A perspective from TDDB reliability and interface status. Applied Surface Science, 2019, 497, 143810.	6.1	13
103	Application of deep neural network learning in composites design. European Journal of Materials, 2022, 2, 117-170.	2.6	12
104	Effect of grain refinement on the mechanical and shape memory properties of Cu-Al-Mn base alloys. European Physical Journal Special Topics, 2001, 11, Pr8-185-Pr8-190.	0.2	11
105	Effects of Si addition on the crystallization behaviour of GeTe phase change materials. Journal Physics D: Applied Physics, 2012, 45, 405302.	2.8	11
106	Understanding the fast phase-change mechanism of tetrahedrally bonded <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Cu</mml:mi><mml:mn>2</mml:mn></mml: : Comprehensive analyses of electronic structure and transport phenomena. Physical Review B, 2018, 97, .	3.2	11
107	The importance of contacts in Cu2GeTe3 phase change memory devices. Journal of Applied Physics, 2020, 128, .	2.5	11
108	Potential of low-resistivity Cu2Mg for highly scaled interconnects and its challenges. Applied Surface Science, 2021, 537, 148035.	6.1	11

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109	Effect of Nitrogen Content on the Microstructure and Mechanical Properties of Ti-Mo-N Coating Films. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 3310-3315.	2.2	10
110	Structural Characterization of a Manganese Oxide Barrier Layer Formed by Chemical Vapor Deposition for Advanced Interconnects Application on SiOC Dielectric Substrates. Journal of Physical Chemistry C, 2013, 117, 160-164.	3.1	10
111	Amorphous Co-Ti alloy as a single layer barrier for Co local interconnect structure. , 2016, , .		10
112	Relation between density and optical contrasts upon crystallization in Cr₂Ge₂Te₆ phase-change material: coexistence of a positive optical contrast and a negative density contrast. Journal Physics D: Applied Physics, 2019, 52, 325111.	2.8	10
113	Ordering of the bcc Phase in a Mg-Sc Binary Alloy by Aging Treatment. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 3044-3047.	2.2	10
114	Structure of amorphous <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Cu</mml:mi><mml:mn>2</mml:mn></mml: and the implications for its phase-change properties. Physical Review B, 2020, 101, .	3.2	10
115	Low resistance-drift characteristics in Cr2Ge2Te6-based phase change memory devices with a high-resistance crystalline phase. Materials Science in Semiconductor Processing, 2021, 133, 105961.	4.0	10
116	Texture Formation through Thermomechanical Treatment and Its Effect on Superelasticity in Mgâ€“Sc Shape Memory Alloy. Materials Transactions, 2020, 61, 2270-2275.	1.2	10
117	Design strategy of phase change material properties for low-energy memory application. Materials and Design, 2022, 216, 110560.	7.0	10
118	High maneuverability guidewire with functionally graded properties using new superelastic alloys. Minimally Invasive Therapy and Allied Technologies, 2006, 15, 204-208.	1.2	9
119	Simultaneous Formation of a Metallic Mn Layer and a MnOx/MnSixOyBarrier Layer by Chemical Vapor Deposition at 250 Â°C. Japanese Journal of Applied Physics, 2013, 52, 05FA02.	1.5	9
120	Aging Effect of Mg-Sc Alloy with α+β Two-Phase Microstructure. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2016, 80, 171-175.	0.4	9
121	Nitrogen doping-induced local structure change in a Cr₂Ge₂Te₆ inverse resistance phase-change material. Materials Advances, 2020, 1, 2426-2432.	5.4	9
122	Phase control of sputter-grown large-area MoTe2 films by preferential sublimation of Te: amorphous, 1Tâ€² and 2H phases. Journal of Materials Chemistry C, 2022, 10, 10627-10635.	5.5	9
123	Microstructure and thermal expansion properties of invar-type Cu-Zn-Al shape memory alloys. Journal of Electronic Materials, 2004, 33, 1098-1102.	2.2	8
124	Pâ€33: Cuâ€Mn Electrodes for aâ€Si TFT and Its Electrical Characteristics. Digest of Technical Papers SID International Symposium, 2010, 41, 1343-1346.	0.3	8
125	Fast crystal nucleation induced by surface oxidation in Si-doped GeTe amorphous thin film. Applied Physics Letters, 2012, 100, .	3.3	8
126	Molybdenum oxide-base phase change resistive switching material. Applied Physics Letters, 2017, 111, .	3.3	8

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127	Material innovation for MOL, BEOL, and 3D integration. , 2017, , .		8
128	Mixed-conduction mechanism of Cr2Ge2Te6 film enabling positive temperature dependence of electrical conductivity and seebeck coefficient. Results in Materials, 2020, 8, 100155.	1.8	8
129	Martensitic transformation of Cuâ€"10at.%Alâ€"9at.%Gaâ€"11at.%Mn ferromagnetic Î² alloy. Scripta Materialia, 2005, 52, 1153-1156.	5.2	7
130	Multiresistance Characteristics of PCRAM With $ hbox{Ge}_{1}hbox{Cu}_{2}hbox{Te}_{3}$ and $hbox{Ge}_{2} hbox{Sb}_{2}hbox{Te}_{5}$ Films. IEEE Electron Device Letters, 2012, 33, 1399-1401.	3.9	7
131	Chronological change of electrical resistance in GeCu₂Te₃amorphous film induced by surface oxidation. Journal Physics D: Applied Physics, 2014, 47, 475302.	2.8	7
132	Investigation of an erasing method for synaptic behaviour in a phase change device using Ge 1 Cu 2 Te 3 (GCT). Electronics Letters, 2016, 52, 1514-1516.	1.0	7
133	Systematic materials design for phase-change memory with small density changes for high-endurance non-volatile memory applications. Applied Physics Express, 2019, 12, 051008.	2.4	7
134	Sequential two-stage displacive transformation from Î² to Î± via Î²â€² phase in polymorphic MnTe film. Materials and Design, 2020, 196, 109141.	7.0	7
135	Improved Ordering of Quasi-Two-Dimensional MoS₂ via an Amorphous-to-Crystal Transition Initiated from Amorphous Sulfur-Rich MoS_{2+<i>x</i>}. Crystal Growth and Design, 2022, 22, 3072-3079.	3.0	7
136	é«˜åŠå·¥æ€§Cu-Al-MnåŸºå½¢çŠ¶è¨˜æ†¶åˆé‡‘ã®é–‹ç™º. Materia Japan, 2003, 42, 813-821.	0.1	6
137	Effect of microstructure on two-way shape memory effect in Cu-A1-Mn alloys. European Physical Journal Special Topics, 2003, 112, 507-510.	0.2	6
138	High Contact Resistivity Enabling Lowâ€Energy Operation in Cr₂Ge₂Te₆â€Based Phaseâ€Change Random Access Memory. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2000392.	2.4	6
139	Martensitic transformation behavior under magnetic field in Co-Ni-Al ferromagnetic shape memory alloys. , 2003, , .		5
140	The Electrical and Optical Properties of Fe–O–N Thin Films Deposited by RF Magnetron Sputtering. Materials Transactions, 2013, 54, 2055-2058.	1.2	5
141	Effects of O₂ and N₂ Flow Rate on the Electrical Properties of Fe-O-N Thin Films. Materials Transactions, 2014, 55, 1606-1610.	1.2	5
142	Crystallization processes of Sb100â^'xZnx (0 â‰ x â‰ 70) amorphous films for use as phase change memory materials. AIP Advances, 2015, 5, 097151.	1.3	5
143	Novel device structure for phase change memory toward low-current operation. Japanese Journal of Applied Physics, 2015, 54, 094302.	1.5	5
144	Thermal stability and polymorphic transformation kinetics in Î²-MnTe films deposited via radiofrequency magnetron sputtering. Japanese Journal of Applied Physics, 2021, 60, 045504.	1.5	5

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145	Electrical Conduction Mechanism of Î²â€MnTe Thin Film with Wurtziteâ€Type Structure Using Radiofrequency Magnetron Sputtering. Physica Status Solidi - Rapid Research Letters, 2022, 16, .	2.4	5
146	Electrical Resistance and Structural Changes on Crystallizaiton Process of Amorphous Ge-Te Thin Films. Materials Research Society Symposia Proceedings, 2009, 1160, 1.	0.1	4
147	Crystallization behavior and resistance change in eutectic Si15Te85 amorphous films. Thin Solid Films, 2012, 520, 2128-2131.	1.8	4
148	Hardness and Wear Properties of Ti-Mo-C-N Film. Materials Transactions, 2016, 57, 362-367.	1.2	4
149	XAFS Analysis of Crystal GeCu₂Te₃ Phase Change Material. Zeitschrift Fur Physikalische Chemie, 2016, 230, 433-443.	2.8	4
150	Temperatureâ€Dependent Electronic Transport in Nonâ€Bulkâ€Resistanceâ€Variation Nitrogenâ€Doped Cr₂Ge₂Te₆ Phaseâ€Change Material. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2000415.	2.4	4
151	Understanding the low resistivity of the amorphous phase of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Cr</mml:mi><mml:mn>2</mml:mn></mm phase-change material: Experimental evidence for the key role of Cr clusters. Physical Review Materials, 2021, 5, .	2.4	4
152	Evolution of the local structure surrounding nitrogen atoms upon the amorphous to crystalline phase transition in nitrogen-doped Cr2Ge2Te6 phase-change material. Applied Surface Science, 2021, 556, 149760.	6.1	4
153	Effects of Aging and Co Addition on Martensitic and Magnetic Transitions in Niâ€"Alâ€"Fe Î²-based Shape Memory Alloys. ISIJ International, 2006, 46, 1287-1291.	1.4	4
154	Influence of Thomson effect on amorphization in phase-change memory: dimensional analysis based on Buckinghamâ€™s ĐŸ theorem for Ge₂Sb₂Te₅. Materials Research Express, 2021, 8, 115902.	1.6	4
155	Effect of Co Addition on the Ordering and Martensitic Transformations in Cu-Al-Mn Shape Memory Alloys. Materials Science Forum, 2000, 327-328, 473-476.	0.3	3
156	Effect of Heat Aging on Thermal and Mechanical Properties of Ti-Ni-Nb Shape Memory Alloy. Materials Transactions, 2007, 48, 439-444.	1.2	3
157	Crystallization behavior of Ge1Cu2Te3 amorphous film. Materials Research Society Symposia Proceedings, 2010, 1251, 8.	0.1	3
158	Application of Cu-Al-Mn superelastic alloy bars as reinforcement elements in concrete beams. , 2012, , .		3
159	Reflow behavior of Cuâ€"Mn in LSI line patterns. Japanese Journal of Applied Physics, 2014, 53, 05GA09.	1.5	3
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