Manami Mori

List of Publications by Year
in descending order

41 papers	1,337 citations	304743 22 h-index	345221 36 g-index
42 all docs	42 docs citations	42 times ranked	772 citing authors

#	Article	IF	Citations
1	Ultrafine Grain Refinement of Biomedical Co-29Cr-6Mo Alloy during Conventional Hot-Compression Deformation. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2009, 40, 1980-1994.	2.2	111
2	Effects of post-processing on cyclic fatigue response of a titanium alloy additively manufactured by electron beam melting. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 680, 239-248.	5.6	91
3	Nanoarchitectured Coâ€“Crâ€“Mo orthopedic implant alloys: Nitrogen-enhanced nanostructural evolution and its effect on phase stability. Acta Biomaterialia, 2013, 9, 6259-6267.	8.3	86
4	Evolution of cold-rolled microstructures of biomedical Co-Cr-Mo alloys with and without N doping. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 528, 614-621.	5.6	73
5	Effects of nitrogen addition on microstructure and mechanical behavior of biomedical Coâ€“Crâ€“Mo alloys. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 29, 417-426.	3.1	73
6	Development of new Coâ€“Crâ€“W-based biomedical alloys: Effects of microalloying and thermomechanical processing on microstructures and mechanical properties. Materials & Design, 2014, 55, 987-998.	5.1	72
7	Mechanical properties of as-forged Ni-free Coâ€“29Crâ€“6Mo alloys with ultrafine-grained microstructure. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 5961-5966.	5.6	71
8	Enhanced Mechanical Properties of As-Forged Co-Cr-Mo-N Alloys with Ultrafine-Grained Structures. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 5243-5257.	2.2	58
9	Local strain evolution due to athermal Î³â†’Îµ martensitic transformation in biomedical Co Cr Mo alloys. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 32, 52-61.	3.1	57
10	Stacking-fault strengthening of biomedical Coâ€“Crâ€“Mo alloy via multipass thermomechanical processing. Scientific Reports, 2017, 7, 10808.	3.3	49
11	Origin of Significant Grain Refinement in Co-Cr-Mo Alloys Without Severe Plastic Deformation. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 4875-4887.	2.2	48
12	Preparation of weak-textured commercially pure titanium by electron beam melting. Additive Manufacturing, 2015, 8, 105-109.	3.0	41
13	Dynamic recrystallization of a biomedical Coâ€“Crâ€“W-based alloy under hot deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 592, 173-181.	5.6	40
14	Abnormal grain growth in commercially pure titanium during additive manufacturing with electron beam melting. Materialia, 2019, 6, 100281.	2.7	37
15	Effects of carbon concentration on microstructure and mechanical properties of as-cast nickel-free Coâ€“28Crâ€“9W-based dental alloys. Materials Science and Engineering C, 2014, 40, 127-134.	7.3	36
16	Microstructures and Mechanical Properties of Biomedical Co-29Cr-6Mo-0.14N Alloys Processed by Hot Rolling. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 3108-3119.	2.2	35
17	Assessment of precipitation behavior in dental castings of a Coâ€“Crâ€“Mo alloy. Journal of the Mechanical Behavior of Biomedical Materials, 2015, 50, 268-276.	3.1	32
18	Influence of carbon addition on mechanical properties and microstructures of Ni-free Coâ€“Crâ€“W alloys subjected to thermomechanical processing. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 37, 274-285.	3.1	29

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19	Developing high strength and ductility in biomedical Coâ€“Cr cast alloys by simultaneous doping with nitrogen and carbon. Acta Biomaterialia, 2016, 31, 435-447.	8.3	29
20	Effect of multipass thermomechanical processing on the corrosion behaviour of biomedical Coâ€“Crâ€“Mo alloys. Corrosion Science, 2019, 148, 178-187.	6.6	27
21	Tuning strain-induced Î³-to-Îµ martensitic transformation of biomedical Coâ€“Crâ€“Mo alloys by introducing parent phase lattice defects. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 90, 523-529.	3.1	25
22	Strengthening of biomedical Ni-free Coâ€“Crâ€“Mo alloy by multipass â€œlow-strain-per-passâ€• thermomechanical processing. Acta Biomaterialia, 2015, 28, 215-224.	8.3	23
23	Effect of carbon on the microstructure, mechanical properties and metal ion release of Ni-free Coâ€“Crâ€“Mo alloys containing nitrogen. Materials Science and Engineering C, 2015, 55, 145-154.	7.3	23
24	Cold-rolling behavior of biomedical Ni-free Coâ€“Crâ€“Mo alloys: Role of strain-induced Îµ martensite and its intersecting phenomena. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 55, 201-214.	3.1	23
25	Effects of nitrogen on microstructural evolution of biomedical Coâ€“Crâ€“W alloys during hot deformation and subsequent cooling. Materials & Design, 2014, 57, 421-425.	5.1	18
26	Effect of cold rolling on phase decomposition in biomedical Coâ€“29Crâ€“6Moâ€“0.2N alloy during isothermal heat treatment at 1073 K. Journal of Alloys and Compounds, 2014, 612, 273-279.	5.5	18
27	Manufacturing of high-strength Ni-free Coâ€“Crâ€“Mo alloy rods via cold swaging. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 60, 38-47.	3.1	18
28	Strain-Induced Martensitic Transformation and Texture Evolution in Cold-Rolled Coâ€“Cr Alloys. Quantum Beam Science, 2018, 2, 11.	1.2	11
29	Nitrogen-induced dynamic strain aging in a biomedical-grade Coâ€“Crâ€“Mo alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 552, 69-75.	5.6	10
30	Development of microstructure and mechanical properties during annealing of a cold-swaged Coâ€“Crâ€“Mo alloy rod. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 64, 187-198.	3.1	10
31	Effect of nitrogen on the microstructure and mechanical properties of Coâ€“33Crâ€“9W alloys prepared by dental casting. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 77, 693-700.	3.1	10
32	Impact of minor alloying with C and Si on the precipitation behavior and mechanical properties of N-doped Coâ€“Cr alloy dental castings. Materials Science and Engineering C, 2018, 92, 112-120.	7.3	10
33	Characterisation of nanoscale carbide precipitation in as-cast Coâ€“Crâ€“W-based dental alloys. Journal of Materials Chemistry B, 2016, 4, 1778-1786.	5.8	9
34	Preparation of high-strength Coâˆ’Crâˆ’Mo alloy rods via hot-caliber rolling. Materialia, 2020, 12, 100729.	2.7	9
35	Quantifying the dislocation structures of additively manufactured Tiâ€“6Alâ€“4V alloys using X-ray diffraction line profile analysis. Additive Manufacturing, 2021, 37, 101678.	3.0	8
36	Texture evolution and mechanical anisotropy of biomedical hot-rolled Coâ€“Crâ€“Mo alloy. Journal of the Mechanical Behavior of Biomedical Materials, 2015, 51, 205-214.	3.1	7

#	Article	IF	Citations
37	Demonstrating a duplex TRIP/TWIP titanium alloy via the introduction of metastable retained Î²-phase. Materials Research Letters, 2022, 10, 754-761.	8.7	5
38	Dynamic Strain Aging in Biomedical Coâ€“Crâ€“Mo-Based Alloys with Nitrogen Doping. Key Engineering Materials, 2012, 508, 141-145.	0.4	1
39	Analysis of hierarchical microstructural evolution in electron beam powder bed fusion Tiâ€“6Alâ€“4V alloys via time-of-flight neutron diffraction. Additive Manufacturing Letters, 2022, 3, 100053.	2.1	1
40	The significance of thermomechanical processing on the cellular response of biomedical Coâ€“Crâ€“Mo alloys. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 133, 105360.	3.1	1
41	Nitrogen-Enhanced Nanostructural Evolution and its Effect on Phase Stability in Biomedical Co-Cr-Mo Alloys. Advanced Materials Research, 0, 922, 826-831.	0.3	0