Yukinori Yamamoto

List of Publications by Year
in descending order

84 papers	4,325 citations	101543 36 h-index	114465 63 g-index
90 all docs	90 docs citations	90 times ranked	1871 citing authors

#	Article	IF	Citations
1	Creep Behavior and Phase Equilibria in Model Precipitate Strengthened Alumina-Forming Austenitic Alloys. Jom, 2022, 74, 1453-1468.	1.9	3
2	Improved irradiation resistance of accident-tolerant high-strength FeCrAl alloys with heterogeneous structures. Acta Materialia, 2022, 231, 117843.	7.9	16
3	Role of Cr Content in Microstructure, Creep, and Oxidation Resistance of Alumina-Forming Austenitic Alloys at 850â€“900 Â°C. Metals, 2022, 12, 717.	2.3	8
4	Uncertainty Quantification of Machine Learning Predicted Creep Property of Alumina-Forming Austenitic Alloys. Jom, 2021, 73, 164-173.	1.9	6
5	Investigating the effect of different shielding gas mixtures on microstructure and mechanical properties of 410 stainless steel fabricated via large scale additive manufacturing. Additive Manufacturing, 2021, 38, 101821.	3.0	9
6	Irradiation-induced amorphization of Fe-Y-based second phase particles in accident-tolerant FeCrAl alloys. Materialia, 2021, 15, 101016.	2.7	4
7	Development of Alumina-Forming Austenitic Alloys for Solid Oxide Fuel Cell Balance of Plant Components. ECS Meeting Abstracts, 2021, MA2021-01, 794-794.	0.0	4
8	Generation of twoâ€dimensional electron gas to normally depleted AlGaN/GaN heteroâ€interface by SiO 2 deposition and subsequent highâ€temperature annealing. Electronics Letters, 2021, 57, 670.	1.0	3
9	Deconvoluting the Effect of Chromium and Aluminum on the Radiation Response of Wrought FeCrAl Alloys After Low-Dose Neutron Irradiation. Journal of Nuclear Materials, 2021, 549, 152804.	2.7	13
10	Chromium evaporation and oxidation characteristics of alumina-forming austenitic stainless steels for balance of plant applications in solid oxide fuel cells. International Journal of Hydrogen Energy, 2021, 46, 21619-21633.	7.1	15
11	Compatibility of Alumina-Forming Austenitic Steels in Static and Flowing Pb. Jom, 2021, 73, 4016-4022.	1.9	5
12	Hydrothermal corrosion of 2nd generation FeCrAl alloys for accident tolerant fuel cladding. Journal of Nuclear Materials, 2020, 536, 152221.	2.7	45
13	Science and Technology of High Performance Ferritic (HiperFer) Stainless Steels. Metals, 2020, 10, 463.	2.3	17
14	Coupling physics in machine learning to predict properties of high-temperatures alloys. Npj Computational Materials, 2020, 6, .	8.7	37
15	Elevated temperature microstructural stability in cast AlCuMnZr alloys through solute segregation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 765, 138279.	5.6	89
16	Validation of an alloy design strategy for stable Feâ€“Crâ€“Alâ€“Nb-X ferritic alloys using electron microscopy and atom probe tomography. Materials Characterization, 2019, 158, 109987.	4.4	12
17	A comprehensive study on the fabrication and characterization of Tiâ€“48Alâ€“2Crâ€“2Nb preforms manufactured using electron beam melting. Materialia, 2019, 6, 100284.	2.7	30
18	Mechanical properties and microstructure characterization of Eurofer97 steel variants in EUROfusion program. Fusion Engineering and Design, 2019, 146, 2227-2232.	1.9	20

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19	Modern data analytics approach to predict creep of high-temperature alloys. Acta Materialia, 2019, 168, 321-330.	7.9	69
20	Mechanical Behavior and Structure of Advanced Fe-Cr-Al Alloy Weldments. Minerals, Metals and Materials Series, 2019, , 1417-1430.	0.4	1
21	Role of Glasgow prognostic score in chemo-naÃ¯ve patients with advanced biliary tract cancer and good performance status. Annals of Oncology, 2019, 30, ix52.	1.2	0
22	Materials challenges for the fusion nuclear science facility. Fusion Engineering and Design, 2018, 135, 290-301.	1.9	46
23	Mechanical Behavior and Structure of Advanced Fe-Cr-Al Alloy Weldments. Minerals, Metals and Materials Series, 2018, , 201-214.	0.4	0
24	Accident Tolerant FeCrAl Fuel Cladding: Current Status Towards Commercialization. Minerals, Metals and Materials Series, 2018, , 165-173.	0.4	2
25	Effects of Laves phase particles on recovery and recrystallization behaviors of Nb-containing FeCrAl alloys. Acta Materialia, 2018, 144, 716-727.	7.9	120
26	Development of Creep-Resistant, Alumina-Forming Ferrous Alloys for High-Temperature Structural Use. , 2018, , .		6
27	Materials-engineering challenges for the fusion core and lifetime components of the fusion nuclear science facility. Nuclear Materials and Energy, 2018, 16, 82-87.	1.3	12
28	Impact toughness of commercial and model FeCrAl alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 734, 93-101.	5.6	35
29	Alloy Corrosion Considerations in Low-Cost, Clean Biomass Cookstoves for the Developing World. Energy for Sustainable Development, 2017, 37, 20-32.	4.5	12
30	Mechanical properties of neutron-irradiated model and commercial FeCrAl alloys. Journal of Nuclear Materials, 2017, 489, 118-128.	2.7	114
31	Design, properties, and weldability of advanced oxidation-resistant FeCrAl alloys. Materials and Design, 2017, 129, 227-238.	7.0	98
32	Effect of Al and Cr Content on Air and Steam Oxidation of FeCrAl Alloys and Commercial APMT Alloy. Oxidation of Metals, 2017, 87, 431-441.	2.1	74
33	A combined APT and SANS investigation of Î±â€² phase precipitation in neutron-irradiated model FeCrAl alloys. Acta Materialia, 2017, 129, 217-228.	7.9	131
34	Solute segregation at the Al/Î¸â€²-Al2Cu interface in Al-Cu alloys. Acta Materialia, 2017, 141, 327-340.	7.9	121
35	Dislocation loop formation in model FeCrAl alloys after neutron irradiation below 1 dpa. Journal of Nuclear Materials, 2017, 495, 20-26.	2.7	45
36	Microstructural control of FeCrAl alloys using Mo and Nb additions. Materials Characterization, 2017, 132, 126-131.	4.4	90

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37	Heterogeneous Creep Deformations and Correlation to Microstructures in Fe-30Cr-3Al Alloys Strengthened by an Fe2Nb Laves Phase. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 4598-4614.	2.2	19
38	Processability evaluation of a Mo-containing FeCrAl alloy for seamless thin-wall tube fabrication. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 700, 554-561.	5.6	53
39	Heterogeneous dislocation loop formation near grain boundaries in a neutron-irradiated commercial FeCrAl alloy. Journal of Nuclear Materials, 2017, 483, 54-61.	2.7	49
40	Development of 1100ÂÂ°C Capable Alumina-Forming Austenitic Alloys. Oxidation of Metals, 2017, 87, 1-10.	2.1	21
41	Complementary Techniques for Quantification of Î±' Phase Precipitation in Neutron-Irradiated Fe-Cr-Al Model Alloys. Microscopy and Microanalysis, 2016, 22, 1470-1471.	0.4	1
42	Field and Laboratory Evaluations of Commercial and Next-Generation Alumina-Forming Austenitic Foil for Advanced Recuperators. Journal of Engineering for Gas Turbines and Power, 2016, 138, .	1.1	6
43	Development of Cast Alumina-Forming Austenitic Stainless Steels. Jom, 2016, 68, 2803-2810.	1.9	21
44	Thermochemical Compatibility and Oxidation Resistance of Advanced LWR Fuel Cladding. Nuclear Technology, 2016, 195, 181-191.	1.2	0
45	Toward Improving the Type IV Cracking Resistance in Cr-Mo Steel Weld Through Thermo-Mechanical Processing. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 2188-2200.	2.2	15
46	Creep and Oxidation Behavior of Modified CF8C-Plus with W, Cu, Ni, and Cr. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 1641-1653.	2.2	4
47	Development and property evaluation of nuclear grade wrought FeCrAl fuel cladding for light water reactors. Journal of Nuclear Materials, 2015, 467, 703-716.	2.7	349
48	Material Selection for Accident Tolerant Fuel Cladding. Metallurgical and Materials Transactions E, 2015, 2, 190-196.	0.5	49
49	In-situ tube burst testing and high-temperature deformation behavior of candidate materials for accident tolerant fuel cladding. Journal of Nuclear Materials, 2015, 466, 417-425.	2.7	23
50	Radiation tolerance of neutron-irradiated model Feâ€"Crâ€"Al alloys. Journal of Nuclear Materials, 2015, 465, 746-755.	2.7	210
51	Deformation behavior of laser welds in high temperature oxidation resistant Feâ€"Crâ€"Al alloys for fuel cladding applications. Journal of Nuclear Materials, 2014, 454, 352-358.	2.7	67
52	Co-optimization of wrought alumina-forming austenitic stainless steel composition ranges for high-temperature creep and oxidation/corrosion resistance. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 590, 101-115.	5.6	109
53	Development of L12-ordered Ni3(Al,Ti)-strengthened alumina-forming austenitic stainless steel alloys. Scripta Materialia, 2013, 69, 816-819.	5.2	99
54	Correlation of precipitate stability to increased creep resistance of Crâ€"Mo steel welds. Acta Materialia, 2013, 61, 2194-2206.	7.9	46

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55	Effect of thermomechanical treatment on 9Cr ferriticâ€"martensitic steels. Journal of Nuclear Materials, 2013, 441, 713-717.	2.7	51
56	The investigation of die-pressing and sintering behavior of ITP CP-Ti and Ti-6Al-4V powders. Journal of Alloys and Compounds, 2012, 541, 440-447.	5.5	40
57	Current Status of Ti PM: Progress, Opportunities and Challenges. Key Engineering Materials, 2012, 520, 1-7.	0.4	12
58	Titanium Sheet Fabricated from Powder for Industrial Applications. Jom, 2012, 64, 566-571.	1.9	7
59	Cold compaction study of Armstrong ProcessÂ® Tiâ€"6Alâ€"4V powders. Powder Technology, 2011, 214, 194-199.	4.2	46
60	Increasing the Upper Temperature Oxidation Limit of Alumina Forming Austenitic Stainless Steels in Air with Water Vapor. Oxidation of Metals, 2011, 75, 337-357.	2.1	85
61	Overview of Strategies for High-Temperature Creep and Oxidation Resistance of Alumina-Forming Austenitic Stainless Steels. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 922-931.	2.2	131
62	Evaluation of Alumina-Forming Austenitic Foil for Advanced Recuperators. Journal of Engineering for Gas Turbines and Power, 2011, 133, .	1.1	14
63	Aging effects on the mechanical properties of alumina-forming austenitic stainless steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 2079-2086.	5.6	61
64	Evaluation of Mn substitution for Ni in alumina-forming austenitic stainless steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 524, 176-185.	5.6	56
65	Effect of Alloying Additions on Phase Equilibria and Creep Resistance of Alumina-Forming Austenitic Stainless Steels. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2009, 40, 1868-1880.	2.2	97
66	Composition, Microstructure, and Water Vapor Effects on Internal/External Oxidation of Alumina-Forming Austenitic Stainless Steels. Oxidation of Metals, 2009, 72, 311-333.	2.1	134
67	The development of alumina-forming austenitic stainless steels for high-temperature structural use. Jom, 2008, 60, 12-18.	1.9	136
68	Kinetics of Diffusion-Induced Recrystallization in the Cu(Ni) System at Low Temperatures. Journal of Electronic Materials, 2008, 37, 1710-1720.	2.2	16
69	Microstructure evolution of alloy 625 foil and sheet during creep at 750Â°C. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 498, 412-420.	5.6	45
70	Alloying effects on creep and oxidation resistance of austenitic stainless steel alloys employing intermetallic precipitates. Intermetallics, 2008, 16, 453-462.	3.9	130
71	Creep-Resistant, Al2O3-Forming Austenitic Stainless Steels. Science, 2007, 316, 433-436.	12.6	337
72	Advanced alloys for compact, high-efficiency, high-temperature heat-exchangers. International Journal of Hydrogen Energy, 2007, 32, 3622-3630.	7.1	30

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73	Effects of minor alloy additions and oxidation temperature on protective alumina scale formation in creep-resistant austenitic stainless steels. Scripta Materialia, 2007, 57, 1117-1120.	5.2	132
74	Alumina-Forming Austenitic Stainless Steels Strengthened by Laves Phase and MC Carbide Precipitates. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2007, 38, 2737-2746.	2.2	139
75	Age Induced Gamma Prime Coarsening and Hardness Behavior in Pyromet 31V. Microscopy and Microanalysis, 2006, 12, 1044-1045.	0.4	1
76	Physical metallurgy of single crystal gamma titanium aluminide alloys:. Intermetallics, 2005, 13, 965-970.	3.9	8
77	Kinetic features of diffusion induced recrystallization in the Cu(Ni) system at 873 K. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 333, 262-269.	5.6	18
78	Observations on diffusion-induced recrystallization in binary Ni/Cu diffusion couples annealed at an intermediate temperature. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 312, 176-181.	5.6	20
79	Quantitative analysis of observations on diffusion induced grain boundary migration for random boundaries in the Cu(Zn) system using a driving force model. Acta Materialia, 1999, 47, 1195-1201.	7.9	11
80	Kinetics of diffusion induced grain boundary migration of [100] twist boundaries in the Cu(Zn) system. Acta Materialia, 1999, 47, 1757-1766.	7.9	17
81	Title is missing!. Journal of Materials Science, 1999, 7, 181-189.	1.2	2
82	On the Loss of Protective Scale Formation in Creep-Resistant, Alumina-Forming Austenitic Stainless Steels at 900Â°C in Air. Materials Science Forum, 0, 595-598, 725-732.	0.3	31
83	Consolidation Process in Near Net Shape Manufacturing of Armstrong CP-Ti/Ti-6Al-4V Powders. Key Engineering Materials, 0, 436, 103-111.	0.4	29
84	Investigation of Pressing and Sintering Processes of CP-Ti Powder Made by Armstrong Process. Key Engineering Materials, 0, 436, 123-130.	0.4	17