Koji Kakehi

List of Publications by Year
in descending order

31 papers	801 citations	623734 14 h-index	552781 26 g-index
32 all docs	32 docs citations	32 times ranked	731 citing authors

#	Article	IF	Citations
1	Effects of build direction and heat treatment on creep properties of Ni-base superalloy built up by additive manufacturing. Scripta Materialia, 2017, 129, 74-78.	5.2	161
2	The effect of interdendritic Î´ phase on the mechanical properties of Alloy 718 built up by additive manufacturing. Materials and Design, 2017, 116, 411-418.	7.0	136
3	The High Temperature Tensile and Creep Behaviors of High Entropy Superalloy. Scientific Reports, 2017, 7, 12658.	3.3	136
4	The Effect of Post-Processes on the Microstructure and Creep Properties of Alloy718 Built Up by Selective Laser Melting. Materials, 2018, 11, 996.	2.9	69
5	Characterization of Ni-Based Superalloy Built by Selective Laser Melting and Electron Beam Melting. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 3831-3837.	2.2	32
6	Effect of yttrium addition on creep properties of a Ni-base superalloy built up by selective laser melting. Scripta Materialia, 2020, 183, 71-74.	5.2	32
7	Influence of Powder Surface Contamination in the Ni-Based Superalloy Alloy718 Fabricated by Selective Laser Melting and Hot Isostatic Pressing. Metals, 2017, 7, 367.	2.3	29
8	Study of Formed Oxides in IN718 Alloy during the Fabrication by Selective Laser Melting and Electron Beam Melting. Metals, 2019, 9, 19.	2.3	25
9	Hierarchical microstructure strengthening in a single crystal high entropy superalloy. Scientific Reports, 2020, 10, 12163.	3.3	21
10	Effect of plastic anisotropy on the creep strength of single crystals of a nickel-based superalloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2000, 31, 421-430.	2.2	20
11	The Effect of Recrystallization on Creep Properties of Alloy IN939 Fabricated by Selective Laser Melting Process. Metals, 2020, 10, 1016.	2.3	20
12	Microstructure and Creep Properties of Ni-Base Superalloy IN718 Built up by Selective Laser Melting in a Vacuum Environment. Metals, 2020, 10, 362.	2.3	19
13	Yttriumâ€™s Effect on the Hot Cracking and Creep Properties of a Ni-Based Superalloy Built Up by Additive Manufacturing. Materials, 2021, 14, 1143.	2.9	15
14	Influence of Precipitate Size and Crystallographic Orientation on Strength of a Single Crystal Ni-Base Superalloy. Materials Transactions, JIM, 1999, 40, 159-167.	0.9	14
15	Effect of the Prior Particle Boundary on the Microstructure and Mechanical Properties of Hot-Isostatic-Pressed IN718 Alloy. Materials Transactions, 2017, 58, 1042-1048.	1.2	13
16	Effects of yttrium and silicon contents in Hastelloy-X built by selective laser melting process. Journal of Alloys and Compounds, 2022, 896, 163050.	5.5	12
17	The Effects of Nb Addition on the Oxidation Behavior of Niâ€“Feâ€“Cr Alloys at 800ÂÂ°C. Oxidation of Metals, 2021, 95, 189-202.	2.1	11
18	Influence of Crystallographic Orientation and Stress Waveforms on Fatigue Strength of Single Crystals of a Ni-Base Superalloy. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 1998, 62, 653-661.	0.4	8

#	Article	IF	Citations
19	Strengths and Microstructure of SUS316L Fabricated by Selective Laser Melting. Materials Transactions, 2018, 59, 482-487.	1.2	7
20	Initial process of continuous dynamic recrystallization in a superplastic Alâ€“Mgâ€“Mn alloy. Keikinzoku/Journal of Japan Institute of Light Metals, 2017, 67, 95-100.	0.4	6
21	Strengths and Microstructure of SUS316L Fabricated by Selective Laser Melting. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2016, 80, 772-777.	0.4	4
22	Microstructure of Nickel-Based Superalloy Fabricated by Selective Laser Melting in Vacuum. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2020, 67, 121-124.	0.2	3
23	Microstructure and Strength of HIP Sintered Ni Base Superalloy Using PREP Powder. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2016, 80, 508-514.	0.4	2
24	Influences of Post-Heat Treatment on the Microstructure Evolution and Creep Properties of Ni-Based Superalloy IN718 Fabricated by Electron Beam Melting. Metals, 2022, 12, 446.	2.3	2
25	The Effect of the Oriented Structure on Mechanical Properties of Titanium Aluminide Fabricated by Electron Beam Melting. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2021, 85, 190-197.	0.4	1
26	Influence of Plastic Anisotropy on High Temperature Strength of Single Crystals of a Nickel-Base Superalloy. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 1999, 63, 326-332.	0.4	1
27	Influence of Crystallographic Orientation on the Strength of Ni-Base Superalloy Single Crystals at Temperatures above the Peak Temperature. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 1999, 63, 641-648.	0.4	0
28	Effect of secondary orientation on the creep strength of single crystal of a nickel-based superalloy. Transactions of the JSME (in Japanese), 2016, 82, 15-00673-15-00673.	0.2	0
29	Influence of Secondary Precipitates on Strength of Single Crystals of Ni-Based Superalloys. , 0, , 96-101.		0
30	20409 Anisotropic creep properties of aluminized Ni-base single crystal superalloy. The Proceedings of Conference of Kanto Branch, 2013, 2013.19, 307-308.	0.0	0
31	Effect of process parameters on microstructure and high-temperature strengths of titanium aluminide alloy fabricated by electron beam melting. Keikinzoku/Journal of Japan Institute of Light Metals, 2022, 72, 308-313.	0.4	0