

Jeoung-han Kim

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Mechanical properties and deformation twinning behavior of as-cast CoCrFeMnNi high-entropy alloy at low and high temperatures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 712, 108-113.	5.6	98
2	High-temperature oxidation behaviour of low-entropy alloy to medium- and high-entropy alloys. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 133, 13-26.	3.6	73
3	Artificial neural network modeling on the relative importance of alloying elements and heat treatment temperature to the stability of β and β_2 phase in titanium alloys. <i>Computational Materials Science</i> , 2015, 107, 175-183.	3.0	45
4	Dissimilar welding between Ti-6Al-4V and 17-4PH stainless steel using a vanadium interlayer. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 732, 378-397.	5.6	41
5	A Self-Consistent Approach for Modeling the Flow Behavior of the Alpha and Beta Phases in Ti-6Al-4V. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011, 42, 1805-1814.	2.2	39
6	In-situ observations of deformation twins and crack propagation in a CoCrFeNiMn high-entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 718, 321-325.	5.6	39
7	Laser dissimilar welding of CoCrFeMnNi-high entropy alloy and duplex stainless steel. <i>Journal of Materials Science and Technology</i> , 2021, 85, 95-105.	10.7	39
8	Tensile Properties and Serrated Flow Behavior of As-Cast CoCrFeMnNi High-Entropy Alloy at Room and Elevated Temperatures. <i>Metals and Materials International</i> , 2019, 25, 296-303.	3.4	38
9	Hot forging design of as-cast NiTi shape memory alloy. <i>Materials Research Bulletin</i> , 2014, 58, 234-238.	5.2	28
10	Laser deposition additive manufacturing of 17-4PH stainless steel on Ti-6Al-4V using V interlayer. <i>Materials Research Letters</i> , 2019, 7, 259-266.	8.7	28
11	High-temperature deformation behavior of a gamma TiAl alloy—Microstructural evolution and mechanisms. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2003, 34, 2165-2176.	2.2	23
12	Effect of resin matrix on the strength of an AZ31 Mg alloy-CFRP joint made by the hot metal pressing technique. <i>Composite Structures</i> , 2018, 201, 303-314.	5.8	23
13	Microstructure evolution and mechanical properties of the dissimilar joint between IN718 and STS304. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 799, 140262.	5.6	22
14	Small angle neutron scattering analyses and high temperature mechanical properties of nano-structured oxide dispersion-strengthened steels produced via cryomilling. <i>Journal of Alloys and Compounds</i> , 2015, 651, 363-374.	5.5	21
15	Stability of TiO ₂ nanoparticles during laser melting of advanced oxide dispersion-strengthened steel powder. <i>Journal of Alloys and Compounds</i> , 2015, 653, 528-533.	5.5	21
16	Microstructural evolution and mechanical properties of laser beam welded joints between pure V and 17-4PH stainless steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 753, 208-217.	5.6	17
17	Stability of Y-Ti-O nanoparticles during laser deposition of oxide dispersion strengthened steel powder. <i>Metals and Materials International</i> , 2017, 23, 1063-1074.	3.4	16
18	Effect of HF treatment on the bonding strength of laser-bonded Mg alloy/carbon fiber-reinforced plastic joint: XPS and NEXAFS study. <i>Applied Surface Science</i> , 2021, 556, 149782.	6.1	15

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19	On the activation of alternated stacking fault pair twinning mechanism in a very large-grained Fe-29Mn-2.4Al steel. <i>Scripta Materialia</i> , 2020, 178, 301-306.	5.2	14
20	Tensile properties and microstructure evolution during two-stage tensile testing of CoCrFeMnNi high-entropy alloy. <i>Journal of Materials Research and Technology</i> , 2020, 9, 7551-7557.	5.8	13
21	Refill Friction Stir Spot Welding of Dissimilar AA6014 Al Alloy and Carbon-Fiber-Reinforced Polymer Composite. <i>Metals and Materials International</i> , 2021, 27, 639-649.	3.4	13
22	Influence of manganese on the microstructure and mechanical properties of oxide-dispersion-strengthened steels. <i>Materials and Design</i> , 2019, 182, 107997.	7.0	12
23	Finite Element Modeling of Residual Stress at Joint Interface of Titanium Alloy and 17-4PH Stainless Steel. <i>Metals</i> , 2021, 11, 629.	2.3	12
24	Effects of processing condition on the microstructural and tensile properties of 14Cr-based oxide dispersion strengthened alloys. <i>Journal of Nuclear Materials</i> , 2014, 449, 300-307.	2.7	11
25	Evolution of Microstructure and Mechanical Properties of Oxide Dispersion Strengthened Steels Made from Water-Atomized Ferritic Powder. <i>Metals and Materials International</i> , 2018, 24, 464-480.	3.4	11
26	High-temperature deformation behavior and microstructural evolution of as-cast and hot rolled $\hat{2}$ 21S alloy during hot deformation. <i>Journal of Materials Research and Technology</i> , 2020, 9, 13555-13569.	5.8	9
27	Microstructure and mechanical properties of dissimilar laser lap joint between CoCrFeMnNi-high entropy alloy and duplex stainless steel. <i>Materials Letters</i> , 2021, 288, 129354.	2.6	9
28	Effect of yttrium on martensite-austenite phase transformation temperatures and high temperature oxidation kinetics of Ti-Ni-Hf high-temperature shape memory alloys. <i>Metals and Materials International</i> , 2016, 22, 204-208.	3.4	8
29	Interfacial structure and pore formation mechanism during laser cladding of pure vanadium on Ti-6Al-4V alloy. <i>International Journal of Refractory Metals and Hard Materials</i> , 2021, 101, 105671.	3.8	7
30	Effect of Laser Heat-Treatment and Laser Nitriding on the Microstructural Evolutions and Wear Behaviors of AISI P21 Mold Steel. <i>Metals</i> , 2020, 10, 1487.	2.3	5
31	Interfacial Structure and Physical Properties of High-Entropy Oxide Coatings Prepared via Atmospheric Plasma Spraying. <i>Coatings</i> , 2021, 11, 755.	2.6	5
32	First principles determination of formation of a Cr shell on the interface between \hat{Y} -Ti-O nanoparticles and a ferritic steel matrix. <i>Applied Surface Science</i> , 2019, 481, 69-74.	6.1	4
33	Manganese effect on the microstructural transformation and mechanical properties of oxide dispersion strengthened steels fabricated with pre-alloyed powders. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 830, 142282.	5.6	4
34	Diffusion pack cementation of hafnium powder with halide activator on Ni-Ti shape memory alloy. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 133, 5-12.	3.6	3
35	Origin of surface ridging in Ti-6Al-4V sheets produced by pack rolling and its effect on microstructural and mechanical properties. <i>Journal of Materials Processing Technology</i> , 2021, 297, 117228.	6.3	3
36	Dissimilar Materials Welding with a Standoff-Free Vaporizing Foil Actuator between TRIP 1180 Steel Sheets and AA5052 Alloy. <i>Metals</i> , 2021, 14, 4969.	2.9	1