

# Young-Kyun Kim

## List of Publications by Year in descending order

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42  
papers

1,146  
citations

430442

18  
h-index

395343

33  
g-index

43  
all docs

43  
docs citations

43  
times ranked

798  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of carrier gas species on the microstructure and compressive deformation behaviors of ultra-strong pure copper manufactured by cold spray additive manufacturing. <i>Journal of Materials Science and Technology</i> , 2022, 97, 264-271.	5.6	13
2	1.45 GPa ultrastrong cryogenic strength with superior impact toughness in the in-situ nano oxide reinforced CrMnFeCoNi high-entropy alloy matrix nanocomposite manufactured by laser powder bed fusion. <i>Journal of Materials Science and Technology</i> , 2022, 97, 10-19.	5.6	43
3	Stabilized sub-grain and nano carbides-driven 1.2 GPa grade ultra-strong CrMnFeCoNi high-entropy alloy additively manufactured by laser powder bed fusion. <i>Journal of Materials Science and Technology</i> , 2022, 117, 8-22.	5.6	19
4	Effects of hot isostatic pressing treatment on the microstructure and tensile properties of Ni-based superalloy CM247LC manufactured by selective laser melting. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 841, 143083.	2.6	27
5	Interstitial carbon content effect on the microstructure and mechanical properties of additively manufactured NiCoCr medium-entropy alloy. <i>Journal of Alloys and Compounds</i> , 2022, 918, 165601.	2.8	4
6	Tuning the Microstructure and Mechanical Properties of Cold Sprayed Equiatomic CoCrFeMnNi High-Entropy Alloy Coating Layer. <i>Metals and Materials International</i> , 2021, 27, 2406-2415.	1.8	30
7	Effect of Ti Addition on the Microstructure and High-Temperature Oxidation Property of AlCoCrFeNi High-Entropy Alloy. <i>Metals and Materials International</i> , 2021, 27, 156-165.	1.8	27
8	2.47 GPa grade ultra-strong 15Co-12Ni secondary hardening steel with superior ductility and fracture toughness. <i>Journal of Materials Science and Technology</i> , 2021, 66, 36-45.	5.6	22
9	Influence of warm caliber rolling on tensile response and high cycle fatigue behavior of hypereutectoid steel. <i>Journal of Materials Research and Technology</i> , 2021, 10, 205-215.	2.6	4
10	In-situ formed oxide enables extraordinary high-cycle fatigue resistance in additively manufactured CoCrFeMnNi high-entropy alloy. <i>Additive Manufacturing</i> , 2021, 38, 101832.	1.7	16
11	Effect of post-treatment on the microstructure and tensile properties of Ni-Co-based superalloy manufactured by selective laser melting. <i>Powder Metallurgy</i> , 2021, 64, 206-210.	0.9	0
12	In-situ carbide-reinforced CoCrFeMnNi high-entropy alloy matrix nanocomposites manufactured by selective laser melting: Carbon content effects on microstructure, mechanical properties, and deformation mechanism. <i>Composites Part B: Engineering</i> , 2021, 210, 108638.	5.9	54
13	Improvement in the Mechanical Properties of Additively Manufactured Ni-Co-Based Superalloy by Tailoring Microstructures. <i>Advanced Engineering Materials</i> , 2021, 23, 2100136.	1.6	0
14	Effect of Tailored Microstructures in CaO-Added AZ31 Extrusion Material on Tensile, High Cycle Fatigue and Fatigue Crack Propagation Properties. <i>Journal of Korean Institute of Metals and Materials</i> , 2021, 59, 365-373.	0.4	1
15	Direct energy deposition of high strength austenitic stainless steel matrix nanocomposite with superior ductility: Microstructure, tensile properties, and deformation behavior. <i>Materials Characterization</i> , 2021, 179, 111358.	1.9	9
16	Improved mechanical and thermophysical properties of additively manufactured Cu-Ni-Sn-P alloy by using aging treatment. <i>Journal of Alloys and Compounds</i> , 2021, 875, 160050.	2.8	9
17	Selective laser melted CrMnFeCoNi + 3 wt% Y <sub>2</sub> O <sub>3</sub> high-entropy alloy matrix nanocomposite: Fabrication, microstructure and nanoindentation properties. <i>Intermetallics</i> , 2021, 138, 107319.	1.8	10
18	Microstructure and mechanical properties of carbon-bearing ultrahigh-strength high Co-Ni Steel (AerMet 340) fabricated via laser powder bed fusion. <i>Materialia</i> , 2021, 20, 101244.	1.3	3

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19	Compressive creep behavior of selective laser melted CoCrFeMnNi high-entropy alloy strengthened by in-situ formation of nano-oxides. Additive Manufacturing, 2020, 36, 101543.	1.7	11
20	Effect of gaseous hydrogen embrittlement on the mechanical properties of additively manufactured CrMnFeCoNi high-entropy alloy strengthened by in-situ formed oxide. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 796, 140039.	2.6	22
21	Effect of milling temperatures on the microstructure and high temperature long-term oxidation resistance of oxide-dispersion strengthened steels. Corrosion Science, 2020, 174, 108833.	3.0	9
22	Hot-Rolling and a Subsequent Direct-Quenching Process Enable Superior High-Cycle Fatigue Resistance in Ultra-High Strength Low Alloy Steels. Materials, 2020, 13, 4651.	1.3	1
23	Superior Temperature-Dependent Mechanical Properties and Deformation Behavior of Equiatomic CoCrFeMnNi High-Entropy Alloy Additively Manufactured by Selective Laser Melting. Scientific Reports, 2020, 10, 8045.	1.6	37
24	Elevated temperature compressive deformation behaviors of $\beta$ -TiAl-based Ti-48Al-2Cr-2Nb alloy additively manufactured by electron beam melting. Intermetallics, 2020, 124, 106859.	1.8	35
25	Effect of post-heat treatment on the thermophysical and compressive mechanical properties of Cu-Ni-Sn alloy manufactured by selective laser melting. Materials Characterization, 2020, 162, 110194.	1.9	15
26	Enhancing the creep resistance of electron beam melted gamma Ti-48Al-2Cr-2Nb alloy by using two-step heat treatment. Intermetallics, 2020, 121, 106771.	1.8	34
27	Tensile and Compressive Deformation Behaviors of High-Strength Cu Bulk Material Manufactured by Cold Spray. Journal of Korean Institute of Metals and Materials, 2020, 58, 759-767.	0.4	1
28	Novel TiB <sub>2</sub> -reinforced 316L stainless steel nanocomposites with excellent room- and high-temperature yield strength developed by additive manufacturing. Composites Part B: Engineering, 2019, 156, 51-63.	5.9	185
29	Effect of post-treatment on the microstructure and high-temperature oxidation behaviour of additively manufactured inconel 718 alloy. Corrosion Science, 2019, 158, 108082.	3.0	67
30	Selective laser melted equiatomic CoCrFeMnNi high-entropy alloy: Microstructure, anisotropic mechanical response, and multiple strengthening mechanism. Journal of Alloys and Compounds, 2019, 805, 680-691.	2.8	124
31	High-temperature creep behavior of gamma Ti-48Al-2Cr-2Nb alloy additively manufactured by electron beam melting. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 763, 138138.	2.6	35
32	Effect of Strain Rate on the Microstructure Evolution and Compressive Deformation Behavior of High-Strength Cu Bulk Material Manufactured by Cold Spray Process. Journal of Thermal Spray Technology, 2019, 28, 917-929.	1.6	5
33	High-cycle fatigue and tensile deformation behaviors of coarse-grained equiatomic CoCrFeMnNi high entropy alloy and unexpected hardening behavior during cyclic loading. Intermetallics, 2019, 111, 106486.	1.8	70
34	Room Temperature Compressive Property and Deformation Behavior of Microporous STS 316L Stainless Steel Tube Manufactured with Powder Sintering Process. Journal of Nanoscience and Nanotechnology, 2019, 19, 4015-4019.	0.9	0
35	Effect of Dry-Electropolishing on the High Cycle Fatigue Properties of Ti-6Al-4V Alloy Manufactured by Selective Laser Melting. Journal of Korean Powder Metallurgy Institute, 2019, 26, 471-476.	0.2	1
36	High temperature oxidation behavior of Cr-Mn-Fe-Co-Ni high entropy alloy. Intermetallics, 2018, 98, 45-53.	1.8	120

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37	Improvement in the high-temperature creep properties via heat treatment of Ti-6Al-4V alloy manufactured by selective laser melting. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 715, 33-40.	2.6	48
38	Microstructure and High Temperature Oxidation Property of Fe-Cr-B Based Metal/Ceramic Composite Manufactured by Powder Injection Molding Process. <i>Metals and Materials International</i> , 2018, 24, 371-379.	1.8	5
39	Effect of Stress Relieving Heat Treatment on the Microstructure and High-Temperature Compressive Deformation Behavior of Ti-6Al-4V Alloy Manufactured by Selective Laser Melting. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 5763-5774.	1.1	14
40	Microstructure and Mechanical Properties of 17-4PH Steel and Fe-Cr-B Alloy Mixed Material Manufactured Using Powder Injection Molding. <i>Journal of Korean Institute of Metals and Materials</i> , 2018, 56, 342-349.	0.4	5
41	Effect of Carrier Gas on Microstructure and Macroscopic Properties of Tantalum Coating Layer Manufactured by Kinetic Spray Process. <i>Journal of Korean Institute of Metals and Materials</i> , 2018, 56, 360-365.	0.4	1
42	Microstructure and Room Temperature Compressive Deformation Behavior of Cold-Sprayed High-Strength Cu Bulk Material. <i>Journal of Thermal Spray Technology</i> , 2017, 26, 1498-1508.	1.6	9