

# Young-Kyun Kim

## List of Publications by Year in descending order

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42  
papers

1,146  
citations

430442

18  
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395343

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all docs

43  
docs citations

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times ranked

798  
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel TiB <sub>2</sub> -reinforced 316L stainless steel nanocomposites with excellent room- and high-temperature yield strength developed by additive manufacturing. <i>Composites Part B: Engineering</i> , 2019, 156, 51-63.	5.9	185
2	Selective laser melted equiatomic CoCrFeMnNi high-entropy alloy: Microstructure, anisotropic mechanical response, and multiple strengthening mechanism. <i>Journal of Alloys and Compounds</i> , 2019, 805, 680-691.	2.8	124
3	High temperature oxidation behavior of Cr-Mn-Fe-Co-Ni high entropy alloy. <i>Intermetallics</i> , 2018, 98, 45-53.	1.8	120
4	High-cycle fatigue and tensile deformation behaviors of coarse-grained equiatomic CoCrFeMnNi high entropy alloy and unexpected hardening behavior during cyclic loading. <i>Intermetallics</i> , 2019, 111, 106486.	1.8	70
5	Effect of post-treatment on the microstructure and high-temperature oxidation behaviour of additively manufactured inconel 718 alloy. <i>Corrosion Science</i> , 2019, 158, 108082.	3.0	67
6	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
7	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
8	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
9	Superior Temperature-Dependent Mechanical Properties and Deformation Behavior of Equiatomic CoCrFeMnNi High-Entropy Alloy Additively Manufactured by Selective Laser Melting. <i>Scientific Reports</i> , 2020, 10, 8045.	1.6	37
10	High-temperature creep behavior of gamma Ti-48Al-2Cr-2Nb alloy additively manufactured by electron beam melting. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 763, 138138.	2.6	35
11	Elevated temperature compressive deformation behaviors of $\beta$ -TiAl-based Ti-48Al-2Cr-2Nb alloy additively manufactured by electron beam melting. <i>Intermetallics</i> , 2020, 124, 106859.	1.8	35
12	Enhancing the creep resistance of electron beam melted gamma Ti-48Al-2Cr-2Nb alloy by using two-step heat treatment. <i>Intermetallics</i> , 2020, 121, 106771.	1.8	34
13	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
14	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
15	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
16	Effect of gaseous hydrogen embrittlement on the mechanical properties of additively manufactured CrMnFeCoNi high-entropy alloy strengthened by in-situ formed oxide. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 796, 140039.	2.6	22
17	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
18	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

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19	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
20	Effect of post-heat treatment on the thermophysical and compressive mechanical properties of Cu-Ni-Sn alloy manufactured by selective laser melting. <i>Materials Characterization</i> , 2020, 162, 110194.	1.9	15
21	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
22	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
23	Compressive creep behavior of selective laser melted CoCrFeMnNi high-entropy alloy strengthened by in-situ formation of nano-oxides. <i>Additive Manufacturing</i> , 2020, 36, 101543.	1.7	11
24	Selective laser melted CrMnFeCoNi + 3Åwt% Y2O3 high-entropy alloy matrix nanocomposite: Fabrication, microstructure and nanoindentation properties. <i>Intermetallics</i> , 2021, 138, 107319.	1.8	10
25	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
26	Effect of milling temperatures on the microstructure and high temperature long-term oxidation resistance of oxide-dispersion strengthened steels. <i>Corrosion Science</i> , 2020, 174, 108833.	3.0	9
27	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
28	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
29	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
30	Effect of Strain Rate on the Microstructure Evolution and Compressive Deformation Behavior of High-Strength Cu Bulk Material Manufactured by Cold Spray Process. <i>Journal of Thermal Spray Technology</i> , 2019, 28, 917-929.	1.6	5
31	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
32	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
33	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
34	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
35	Hot-Rolling and a Subsequent Direct-Quenching Process Enable Superior High-Cycle Fatigue Resistance in Ultra-High Strength Low Alloy Steels. <i>Materials</i> , 2020, 13, 4651.	1.3	1
36	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

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37	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
38	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
39	Effect of Carrier Gas on Microstructure and Macroscopic Properties of Tantalum Coating Layer Manufactured by Kinetic Spray Process. Journal of Korean Institute of Metals and Materials, 2018, 56, 360-365.	0.4	1
40	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
41	Effect of post-treatment on the microstructure and tensile properties of Ni-Co-based superalloy manufactured by selective laser melting. Powder Metallurgy, 2021, 64, 206-210.	0.9	0
42	Improvement in the Mechanical Properties of Additively Manufactured Ni-Co-Based Superalloy by Tailoring Microstructures. Advanced Engineering Materials, 2021, 23, 2100136.	1.6	0