Jin-Kyung Kim

List of Publications by Year
in descending order

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Version: 2024-02-01

38	2,207	304602	360920
papers	citations	22 h-index	35 g-index

38	38	38	1389
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Crack-resistant Ïƒ/FCC interfaces in the Fe40Mn40Co10Cr10 high entropy alloy with the dispersed Ïƒ-phase. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 831, 142039.	2.6	35
2	Temperature-dependent universal dislocation structures and transition of plasticity enhancing mechanisms of the Fe40Mn40Co10Cr10 high entropy alloy. International Journal of Plasticity, 2022, 148, 103148.	4.1	30
3	Hierarchical precipitates, sequential deformation-induced phase transformation, and enhanced back stress strengthening of the micro-alloyed high entropy alloy. Acta Materialia, 2022, 233, 117974.	3.8	32
4	Role of recrystallization and second phases on mechanical properties of (CoCrFeMnNi)95.2Al3.2Ti1.6 high entropy alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 814, 141249.	2.6	11
5	An Overview of High Yield Strength Twinning-Induced Plasticity Steels. Metals, 2021, 11, 124.	1.0	20
6	Role of grain size on deformation microstructures and stretch-flangeability of TWIP steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 773, 138861.	2.6	15
7	Influence of Manufacturing Conditions on Inclusion Characteristics and Mechanical Properties of FeCrNiMnCo Alloy. Metals, 2020, 10, 1286.	1.0	18
8	Influence of initial microstructures on intercritical annealing behaviour in a medium Mn steel. Materials Science and Technology, 2019, 35, 2092-2100.	0.8	13
9	Partially-recrystallized ferrite grains and multiple plasticity enhancing mechanisms in a medium Mn steel. Materials Characterization, 2019, 155, 109812.	1.9	9
10	Effect of Prior Austenite Grain Size on Hole Expansion Ratio of Quenching and Partitioning Processed Medium-Mn Steel. Jom, 2019, 71, 1366-1374.	0.9	10
11	Partially-recrystallized, Nb-alloyed TWIP steels with a superior strength-ductility balance. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 711, 130-139.	2.6	28
12	Constitutive Modeling of the Stacking Fault Energy-Dependent Deformation Behavior of Fe-Mn-C-(Al) TWIP Steels. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 5919-5924.	1.1	15
13	Solidification Microsegregation and Hot Ductility of Fe-Mn-C-Al-xNb TWIP Steels. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 5509-5523.	1.1	11
14	Compositional evolution of long-period stacking ordered structures in magnesium studied by atom probe tomography. Scripta Materialia, 2018, 156, 55-59.	2.6	8
15	The effect of vanadium micro-alloying on the microstructure and the tensile behavior of TWIP steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 696, 416-428.	2.6	93
16	Micro-plasticity of medium Mn austenitic steel: Perfect dislocation plasticity and deformation twinning. Acta Materialia, 2017, 135, 112-123.	3.8	46
17	On the deformation twinning mechanisms in twinning-induced plasticity steel. Acta Materialia, 2017, 141, 444-455.	3.8	66
18	Data related to dislocation density-based constitutive modeling of the tensile behavior of lath martensitic press hardening steel. Data in Brief, 2017, 15, 240-243.	0.5	0

#	Article	IF	Citations
19	Microstructures and mechanical properties of Ti and Mo micro-alloyed medium Mn steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 706, 1-14.	2.6	69
20	On the plasticity mechanisms of lath martensitic steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 704, 252-261.	2.6	15
21	Diffusional-displacive transformation enables formation of long-period stacking order in magnesium. Scientific Reports, 2017, 7, 4046.	1.6	22
22	Observation of dislocations with a Burgers vector containing a âŸ¨câŸ© component in martensitic hcp Îµ Fe-17%Mn. Scripta Materialia, 2017, 128, 78-82.	2.6	12
23	The role of metastable LPSO building block clusters in phase transformations of an Mg-Y-Zn alloy. Acta Materialia, 2016, 112, 171-183.	3.8	104
24	Stacking fault energy and deformation mechanisms in Fe-xMn-0.6C-yAl TWIP steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 676, 216-231.	2.6	144
25	On the room temperature deformation mechanisms of a Mgâ€“Yâ€“Zn alloy with long-period-stacking-ordered structures. Acta Materialia, 2015, 82, 414-423.	3.8	186
26	Application of a Dislocation Density-Based Constitutive Model to Al-Alloyed TWIP Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 4168-4182.	1.1	71
27	Heterogeneous deformation in twinning-induced plasticity steel. Scripta Materialia, 2012, 66, 986-991.	2.6	38
28	Constitutive Modeling of the Tensile Behavior of Al-TWIP Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 479-490.	1.1	52
29	Effect of Al on the stacking fault energy of Feâ€“18Mnâ€“0.6C twinning-induced plasticity. Scripta Materialia, 2011, 65, 363-366.	2.6	175
30	Effect of nitrogen on the critical strain for dynamic strain aging in high-manganese twinning-induced plasticity steel. Scripta Materialia, 2011, 65, 528-531.	2.6	58
31	Effect of Cu addition on the mechanical behavior of austenitic twinning-induced plasticity steel. Scripta Materialia, 2011, 65, 1073-1076.	2.6	52
32	On the origin of dynamic strain aging in twinning-induced plasticity steels. Acta Materialia, 2011, 59, 6809-6819.	3.8	292
33	Orientation dependence of twinning and strain hardening behaviour of a high manganese twinning induced plasticity steel with polycrystalline structure. Acta Materialia, 2011, 59, 7787-7799.	3.8	172
34	On the Stacking Fault Energy of Fe-18ÂPct Mn-0.6ÂPct C-1.5ÂPct Al Twinning-Induced Plasticity Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 932-936.	1.1	38
35	Stretchâ€Flangeability of High Mn TWIP steel. Steel Research International, 2010, 81, 552-568.	1.0	55
36	On the Tensile Behavior of High-Manganese Twinning-Induced Plasticity Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2009, 40, 3147-3158.	1.1	118

#	Article	IF	Citations
37	Strain Rate Sensitivity of C-alloyed, High-Mn, Twinning-induced Plasticity Steel. , 2009, 80, 493.		5
38	High Mn TWIP Steels for Automotive Applications. , 0, , .		69