

Jin-Kyung Kim

List of Publications by Year in descending order

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38
papers

2,207
citations

304602

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38
all docs

38
docs citations

38
times ranked

1389
citing authors

#	ARTICLE	IF	CITATIONS
1	On the origin of dynamic strain aging in twinning-induced plasticity steels. <i>Acta Materialia</i> , 2011, 59, 6809-6819.	3.8	292
2	On the room temperature deformation mechanisms of a Mg-Y-Zn alloy with long-period-stacking-ordered structures. <i>Acta Materialia</i> , 2015, 82, 414-423.	3.8	186
3	Effect of Al on the stacking fault energy of Fe-18Mn-0.6C twinning-induced plasticity. <i>Scripta Materialia</i> , 2011, 65, 363-366.	2.6	175
4	Orientation dependence of twinning and strain hardening behaviour of a high manganese twinning induced plasticity steel with polycrystalline structure. <i>Acta Materialia</i> , 2011, 59, 7787-7799.	3.8	172
5	Stacking fault energy and deformation mechanisms in Fe-xMn-0.6C-yAl TWIP steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 676, 216-231.	2.6	144
6	On the Tensile Behavior of High-Manganese Twinning-Induced Plasticity Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2009, 40, 3147-3158.	1.1	118
7	The role of metastable LPSO building block clusters in phase transformations of an Mg-Y-Zn alloy. <i>Acta Materialia</i> , 2016, 112, 171-183.	3.8	104
8	The effect of vanadium micro-alloying on the microstructure and the tensile behavior of TWIP steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 696, 416-428.	2.6	93
9	Application of a Dislocation Density-Based Constitutive Model to Al-Alloyed TWIP Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013, 44, 4168-4182.	1.1	71
10	High Mn TWIP Steels for Automotive Applications. , 0, , .		69
11	Microstructures and mechanical properties of Ti and Mo micro-alloyed medium Mn steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 706, 1-14.	2.6	69
12	On the deformation twinning mechanisms in twinning-induced plasticity steel. <i>Acta Materialia</i> , 2017, 141, 444-455.	3.8	66
13	Effect of nitrogen on the critical strain for dynamic strain aging in high-manganese twinning-induced plasticity steel. <i>Scripta Materialia</i> , 2011, 65, 528-531.	2.6	58
14	Stretch-flangeability of High Mn TWIP steel. <i>Steel Research International</i> , 2010, 81, 552-568.	1.0	55
15	Effect of Cu addition on the mechanical behavior of austenitic twinning-induced plasticity steel. <i>Scripta Materialia</i> , 2011, 65, 1073-1076.	2.6	52
16	Constitutive Modeling of the Tensile Behavior of Al-TWIP Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012, 43, 479-490.	1.1	52
17	Micro-plasticity of medium Mn austenitic steel: Perfect dislocation plasticity and deformation twinning. <i>Acta Materialia</i> , 2017, 135, 112-123.	3.8	46
18	On the Stacking Fault Energy of Fe-18Pct Mn-0.6Pct C-1.5Pct Al Twinning-Induced Plasticity Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011, 42, 932-936.	1.1	38

#	ARTICLE	IF	CITATIONS
19	Heterogeneous deformation in twinning-induced plasticity steel. <i>Scripta Materialia</i> , 2012, 66, 986-991.	2.6	38
20	Crack-resistant δ /FCC interfaces in the Fe ₄₀ Mn ₄₀ Co ₁₀ Cr ₁₀ high entropy alloy with the dispersed δ -phase. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 831, 142039.	2.6	35
21	Hierarchical precipitates, sequential deformation-induced phase transformation, and enhanced back stress strengthening of the micro-alloyed high entropy alloy. <i>Acta Materialia</i> , 2022, 233, 117974.	3.8	32
22	Temperature-dependent universal dislocation structures and transition of plasticity enhancing mechanisms of the Fe ₄₀ Mn ₄₀ Co ₁₀ Cr ₁₀ high entropy alloy. <i>International Journal of Plasticity</i> , 2022, 148, 103148.	4.1	30
23	Partially-recrystallized, Nb-alloyed TWIP steels with a superior strength-ductility balance. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 711, 130-139.	2.6	28
24	Diffusional-displacive transformation enables formation of long-period stacking order in magnesium. <i>Scientific Reports</i> , 2017, 7, 4046.	1.6	22
25	An Overview of High Yield Strength Twinning-Induced Plasticity Steels. <i>Metals</i> , 2021, 11, 124.	1.0	20
26	Influence of Manufacturing Conditions on Inclusion Characteristics and Mechanical Properties of FeCrNiMnCo Alloy. <i>Metals</i> , 2020, 10, 1286.	1.0	18
27	On the plasticity mechanisms of lath martensitic steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 704, 252-261.	2.6	15
28	Constitutive Modeling of the Stacking Fault Energy-Dependent Deformation Behavior of Fe-Mn-C-(Al) TWIP Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 5919-5924.	1.1	15
29	Role of grain size on deformation microstructures and stretch-flangeability of TWIP steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 773, 138861.	2.6	15
30	Influence of initial microstructures on intercritical annealing behaviour in a medium Mn steel. <i>Materials Science and Technology</i> , 2019, 35, 2092-2100.	0.8	13
31	Observation of dislocations with a Burgers vector containing a $\frac{1}{2}\langle 111 \rangle$ component in martensitic hcp δ -Fe-17%Mn. <i>Scripta Materialia</i> , 2017, 128, 78-82.	2.6	12
32	Solidification Microsegregation and Hot Ductility of Fe-Mn-C-Al-xNb TWIP Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 5509-5523.	1.1	11
33	Role of recrystallization and second phases on mechanical properties of (CoCrFeMnNi) _{95.2} Al _{3.2} Ti _{1.6} high entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 814, 141249.	2.6	11
34	Effect of Prior Austenite Grain Size on Hole Expansion Ratio of Quenching and Partitioning Processed Medium-Mn Steel. <i>Jom</i> , 2019, 71, 1366-1374.	0.9	10
35	Partially-recrystallized ferrite grains and multiple plasticity enhancing mechanisms in a medium Mn steel. <i>Materials Characterization</i> , 2019, 155, 109812.	1.9	9
36	Compositional evolution of long-period stacking ordered structures in magnesium studied by atom probe tomography. <i>Scripta Materialia</i> , 2018, 156, 55-59.	2.6	8

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37	Strain Rate Sensitivity of C-alloyed, High-Mn, Twinning-induced Plasticity Steel. , 2009, 80, 493.		5
38	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