

Joong-Ki Hwang

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Significantly Enhanced Strength of a Drawn Twinning-Induced Plasticity Steel Wire and its Deformation Twinning Dependency. <i>Journal of Materials Engineering and Performance</i> , 2023, 32, 117-134.	1.2	1
2	Direct Formed High-Strength Bolt with Hot-Rolled Twinning-Induced Plasticity Steel Using Its High Strain Hardening Rate. <i>Journal of Materials Engineering and Performance</i> , 2022, 31, 272-285.	1.2	1
3	Hardening and Softening Behavior of Caliber-Rolled Wire. <i>Materials</i> , 2022, 15, 2939.	1.3	2
4	Strain and strain rate hardening effects on the macroscopic shear bands and deformation shape of a caliber-rolled wire. <i>Journal of Manufacturing Processes</i> , 2022, 79, 102-114.	2.8	5
5	Effects of Water Jet Height and End Dipping on the Cooling Rate and Hardenability in the Jominy End Quench Test. <i>Processes</i> , 2021, 9, 607.	1.3	1
6	Impact of Die Radius in a Streamlined Die during Wire Drawing. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3922.	1.3	3
7	Deformation Behavior of Longitudinal Surface Flaws in Flat Rolling of Steel Wire. <i>ISIJ International</i> , 2021, 61, 1935-1945.	0.6	0
8	Influence of Roll Diameter on Material Deformation and Properties during Wire Flat Rolling. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 8381.	1.3	2
9	Effect of reduction in area per pass on strain distribution and microstructure during caliber rolling in twinning-induced plasticity steel. <i>Journal of Iron and Steel Research International</i> , 2020, 27, 62-74.	1.4	11
10	Deformation behaviors of various Fe-Mn-C twinning-induced plasticity steels: effect of stacking fault energy and chemical composition. <i>Journal of Materials Science</i> , 2020, 55, 1779-1795.	1.7	20
11	Effects of nozzle shape and arrangement on the cooling performance of steel wire rod in the Stelmor cooling process. <i>Applied Thermal Engineering</i> , 2020, 164, 114461.	3.0	6
12	Effect of drawing speed on microstructure distribution and drawability in twinning-induced plasticity steel during wire drawing. <i>Journal of Iron and Steel Research International</i> , 2020, 27, 577-587.	1.4	5
13	Deformation Behaviors of Flat Rolled Wire in Twinning-Induced Plasticity Steel. <i>Metals and Materials International</i> , 2020, 26, 603-616.	1.8	26
14	Effect of grain size on tensile and wire drawing behaviors in twinning-induced plasticity steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 772, 138709.	2.6	9
15	High-strength bolt manufactured by an extrusion-based forming process using twinning-induced plasticity steel. <i>Journal of Manufacturing Processes</i> , 2020, 59, 33-42.	2.8	14
16	Effects of Alloying Elements (C, Mo) on Hydrogen Assisted Cracking Behaviors of A516-65 Steels in Sour Environments. <i>Materials</i> , 2020, 13, 4188.	1.3	9
17	Effect of Cambered and Oval-Grooved Roll on the Strain Distribution During the Flat Rolling Process of a Wire. <i>Processes</i> , 2020, 8, 876.	1.3	5
18	Correlation of Strain Path, Texture, Twinning, and Mechanical Properties in Twinning-Induced Plasticity Steel during Wire Drawing. <i>Materials</i> , 2020, 13, 2250.	1.3	8

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19	Fracture behavior of twinning-induced plasticity steel during wire drawing. Journal of Materials Research and Technology, 2020, 9, 4527-4537.	2.6	11
20	Low formability and reduction of area in twinning-induced plasticity steels despite their excellent tensile elongation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 779, 139123.	2.6	12
21	Revealing the small post-necking elongation in twinning-induced plasticity steels. Journal of Materials Science, 2020, 55, 8285-8302.	1.7	11
22	Effect of Ring Configuration on the Deviation in Cooling Rate and Mechanical Properties of a Wire Rod during the Stelmor Cooling Process. Journal of Materials Engineering and Performance, 2020, 29, 1732-1740.	1.2	3
23	Thermal Behavior of a Rod during Hot Shape Rolling and Its Comparison with a Plate during Flat Rolling. Processes, 2020, 8, 327.	1.3	9
24	Enhanced Homogeneity of a Flat-rolled Wire in Twinning-induced Plasticity Steel Using the Pass Schedule Design. ISIJ International, 2020, 60, 2493-2502.	0.6	6
25	Effects of Process Conditions, Material Properties, and Initial Shape of Flaw on the Deformation Behavior of Surface Flaw during Wire Drawing. ISIJ International, 2019, 59, 2052-2061.	0.6	4
26	Effects of diameter and preparation of round shaped tensile specimen on mechanical properties. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 763, 138119.	2.6	12
27	Effect of Stress States on Twinning Behavior in Twinning-Induced Plasticity Steel. Journal of Materials Engineering and Performance, 2019, 28, 4811-4825.	1.2	10
28	The microstructure dependence of drawability in ferritic, pearlitic, and TWIP steels during wire drawing. Journal of Materials Science, 2019, 54, 8743-8759.	1.7	29
29	Drawing Direction Effect on Microstructure and Mechanical Properties of Twinning-Induced Plasticity Steel During Wire Drawing. Journal of Materials Engineering and Performance, 2019, 28, 2834-2844.	1.2	11
30	Effects of caliber rolling on microstructure and mechanical properties in twinning-induced plasticity (TWIP) steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 711, 156-164.	2.6	29
31	Effect of copper and aluminum contents on wire drawing behavior in twinning-induced plasticity steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 737, 188-197.	2.6	21
32	The temperature distribution and underlying cooling mechanism of steel wire rod in the Stelmor type cooling process. Applied Thermal Engineering, 2018, 142, 311-320.	3.0	25
33	Microstructural evolution and deformation behavior of twinning-induced plasticity (TWIP) steel during wire drawing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 644, 41-52.	2.6	58
34	Effect of reduction of area on microstructure and mechanical properties of twinning-induced plasticity steel during wire drawing. Metals and Materials International, 2015, 21, 815-822.	1.8	33