

Jae Nam Kim

List of Publications by Year in descending order

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21
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| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Effect of grain boundary engineering on hydrogen embrittlement in Fe-Mn-C TWIP steel at various strain rates. <i>Corrosion Science</i> , 2018, 142, 213-221. | 6.6 | 61 |
| 2 | Changes in chemical behavior of thin film lead zirconate titanate during Ar ⁺ -ion bombardment using XPS. <i>Applied Surface Science</i> , 2003, 206, 119-128. | 6.1 | 54 |
| 3 | Effects of surface treatment using aqua regia solution on the change of surface band bending of p-type GaN. <i>Journal of Electronic Materials</i> , 2001, 30, 129-133. | 2.2 | 44 |
| 4 | Effect of V/Mo ratio on the evolution of carbide precipitates and hydrogen embrittlement of tempered martensitic steel. <i>Corrosion Science</i> , 2020, 176, 108929. | 6.6 | 33 |
| 5 | Effect of grain size on the low-cycle fatigue behavior of carbon-containing high-entropy alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 810, 140985. | 5.6 | 27 |
| 6 | Effect of tempering duration on hydrogen embrittlement of vanadium-added tempered martensitic steel. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 19670-19681. | 7.1 | 23 |
| 7 | Corrosion and Toughness of Experimental and Commercial Super Ferritic Stainless Steels. <i>Corrosion</i> , 1999, 55, 743-755. | 1.1 | 19 |
| 8 | Effects of carbon content on the tensile and fatigue properties in hydrogen-charged Fe-17Mn-xC steels: The opposing trends. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 724, 469-476. | 5.6 | 14 |
| 9 | Structure and Stoichiometry of Mg _x Zn _y in Hot-Dipped Zn-Mg-Al Coating Layer on Interstitial-Free Steel. <i>Metals and Materials International</i> , 2018, 24, 1090-1098. | 3.4 | 13 |
| 10 | Tailoring Extra-Strength of a TWIP Steel by Combination of Multi-Pass Equal-Channel Angular Pressing and Warm Rolling. <i>Metals</i> , 2021, 11, 518. | 2.3 | 13 |
| 11 | Microstructural evolution and mechanical properties of nanocrystalline Fe-Mn-Al-C steel processed by high-pressure torsion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 827, 142073. | 5.6 | 13 |
| 12 | Origin of superior low-cycle fatigue resistance of an interstitial metastable high-entropy alloy. <i>Journal of Materials Science and Technology</i> , 2022, 115, 115-128. | 10.7 | 10 |
| 13 | Effect of undissolved Nb carbides on mechanical properties of hydrogen-precharged tempered martensitic steel. <i>Scientific Reports</i> , 2020, 10, 11704. | 3.3 | 8 |
| 14 | Influence of Microstructure on Low-Cycle and Extremely-Low-Cycle Fatigue Resistance of Low-Carbon Steels. <i>Metals and Materials International</i> , 2021, 27, 3862-3874. | 3.4 | 8 |
| 15 | A new method to determine trace boron concentration of iron and steel by SIMS direct ion image. <i>Metals and Materials International</i> , 2012, 18, 361-369. | 3.4 | 7 |
| 16 | Improved cold-rollability of duplex lightweight steels utilizing deformation-induced ferritic transformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 742, 835-841. | 5.6 | 7 |
| 17 | Characterization of ferroelectric ceramics using x-ray diffraction, transmission electron microscopy, and x-ray photoelectron spectroscopy. <i>Smart Materials and Structures</i> , 2003, 12, 565-570. | 3.5 | 5 |
| 18 | Ambivalent Role of Annealing in Tensile Properties of Step-Rolled Ti-6Al-4V with Ultrafine-Grained Structure. <i>Metals</i> , 2020, 10, 684. | 2.3 | 4 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Microstructure and Nanosize Precipitate of Nitrided 316L Stainless Steel. Metals and Materials International, 2019, 25, 127-134. | 3.4 | 2 |
| 20 | Effect of Thermo-mechanical Treatment on the Damping Capacity of 316L Stainless Steel. Journal of Korean Institute of Metals and Materials, 2015, 53, 919-930. | 1.0 | 2 |
| 21 | Effect of Thermo-mechanical Treatment on the Formation Behavior of Martensite in 316L Stainless Steel. Journal of Korean Institute of Metals and Materials, 2018, 56, . | 1.0 | 0 |