

# Di Wan

## List of Publications by Year in descending order

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44  
papers

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citations

430442

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454577

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44  
docs citations

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times ranked

593  
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#	ARTICLE	IF	CITATIONS
1	Reveal Hydrogen Behavior at Grain Boundaries in Fe-22Mn-0.6C TWIP Steel via In Situ Micropillar Compression Test. <i>Acta Metallurgica Sinica (English Letters)</i> , 2023, 36, 1095-1104.	1.5	2
2	Solid-State Hydrogen Storage Properties of Ti-V-Nb-Cr High-Entropy Alloys and the Associated Effects of Transitional Metals (Mn, Fe, Ni). <i>Acta Metallurgica Sinica (English Letters)</i> , 2023, 36, 1113-1122.	1.5	8
3	Understanding the hydrogen effect on pop-in behavior of an equiatomic high-entropy alloy during in-situ nanoindentation. <i>Journal of Materials Science and Technology</i> , 2022, 98, 118-122.	5.6	15
4	Synergistic effects of Cd, Si and Cr additions on precipitation strengthening and thermal stability of dispersoids in AA3003 alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 832, 142422.	2.6	5
5	Hydrogen embrittlement of additively manufactured AlCoCrFeNi2.1 eutectic high-entropy alloy. <i>Corrosion Science</i> , 2022, 195, 110007.	3.0	21
6	Fatigue performance of shelled additively manufactured parts subjected to hot isostatic pressing. <i>Additive Manufacturing</i> , 2022, 51, 102607.	1.7	3
7	In-situ tensile and fatigue behavior of electrical grade Cu alloy for subsea cables. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 835, 142654.	2.6	4
8	Effect of hydrogen on the embrittlement susceptibility of Fe-22Mn-0.6C TWIP steel revealed by in-situ tensile tests. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 802, 140638.	2.6	22
9	Impurity removal from Si by Si-Ca-Mg ternary alloying-leaching system. <i>Materials and Design</i> , 2021, 198, 109348.	3.3	3
10	Current Challenges and Opportunities Toward Understanding Hydrogen Embrittlement Mechanisms in Advanced High-Strength Steels: A Review. <i>Acta Metallurgica Sinica (English Letters)</i> , 2021, 34, 741-754.	1.5	54
11	Low-Cycle Fatigue Life Prediction of 10CrNi3MoV Steel and Undermatched Welds by Damage Mechanics Approach. <i>Frontiers in Materials</i> , 2021, 8, .	1.2	4
12	The impact of thermo-mechanical processing routes on product quality in integrated aluminium tube bending process. <i>Journal of Manufacturing Processes</i> , 2021, 67, 503-512.	2.8	15
13	Chemical heterogeneity enhances hydrogen resistance in high-strength steels. <i>Nature Materials</i> , 2021, 20, 1629-1634.	13.3	83
14	Revealing the influence of electron beam melted Ti-6Al-4V scaffolds on osteogenesis of human bone marrow-derived mesenchymal stromal cells. <i>Journal of Materials Science: Materials in Medicine</i> , 2021, 32, 97.	1.7	4
15	Microstructure and nanomechanical behavior of an additively manufactured (CrCoNiFe) <sub>94</sub> Ti <sub>2</sub> Al <sub>4</sub> high-entropy alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 823, 141737.	2.6	11
16	Probing hydrogen effect on nanomechanical properties of X65 pipeline steel using in-situ electrochemical nanoindentation. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 824, 141819.	2.6	11
17	Evaluation of hydrogen effect on the fatigue crack growth behavior of medium-Mn steels via in-situ hydrogen plasma charging in an environmental scanning electron microscope. <i>Journal of Materials Science and Technology</i> , 2021, 85, 30-43.	5.6	13
18	Additive manufacturing of TiB <sub>2</sub> -containing CoCrFeMnNi high-entropy alloy matrix composites with high density and enhanced mechanical properties. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 825, 141871.	2.6	35

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19	Effect of geometrical irregularities on fatigue of lead sheathing for submarine high voltage power cable applications. <i>International Journal of Fatigue</i> , 2021, 151, 106399.	2.8	1
20	Fatigue crack growth behavior of Ni-Cr-Mo-V steel welded joints considering strength mismatch effect. <i>International Journal of Fatigue</i> , 2021, 151, 106389.	2.8	17
21	Risk-based inspection planning for hydrogen technologies: review of current standards and suggestions for modification. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1193, 012075.	0.3	3
22	An In-Situ Electrochemical Nanoindentation (ECNI) Study on the Effect of Hydrogen on the Mechanical Properties of 316L Austenitic Stainless Steel. <i>Materials</i> , 2021, 14, 6426.	1.3	2
23	The influence of hydrogen on cyclic plasticity of <math>\langle 001 \rangle</math> oriented nickel single crystal. Part I: Dislocation organisations and internal stresses. <i>International Journal of Plasticity</i> , 2020, 126, 102611.	4.1	14
24	Novel in-situ residual strain measurements in additive manufacturing specimens by using the Optical Backscatter Reflectometry. <i>Additive Manufacturing</i> , 2020, 32, 101040.	1.7	14
25	Fatigue assessment of as-built and heat-treated Inconel 718 specimens produced by additive manufacturing including notch effects. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2020, 43, 2326-2336.	1.7	34
26	The effect of hydrogen on the crack initiation site of TRIP-assisted steels during in-situ hydrogen plasma micro-tensile testing: Leading to an improved ductility?. <i>Materials Characterization</i> , 2020, 167, 110493.	1.9	14
27	Additively manufactured CrMnFeCoNi/AlCoCrFeNiTi0.5 laminated high-entropy alloy with enhanced strength-plasticity synergy. <i>Scripta Materialia</i> , 2020, 183, 133-138.	2.6	37
28	Tensile and fatigue behavior of a Pb-Sn-Sb alloy investigated via small-scale in-situ mechanical testing in SEM. <i>Procedia Structural Integrity</i> , 2020, 28, 648-658.	0.3	4
29	In-situ observation of martensitic transformation in an interstitial metastable high-entropy alloy during cathodic hydrogen charging. <i>Scripta Materialia</i> , 2019, 173, 56-60.	2.6	35
30	Strain visualization of growing short fatigue cracks in the heat-affected zone of a Ni-Cr-Mo-V steel welded joint: Intergranular cracking and crack closure. <i>International Journal of Pressure Vessels and Piping</i> , 2019, 178, 103992.	1.2	21
31	Effect of electrochemical charging on the hydrogen embrittlement susceptibility of alloy 718. <i>Acta Materialia</i> , 2019, 179, 36-48.	3.8	55
32	Hydrogen enhanced fatigue crack growth rates in a ferritic Fe-3wt%Si alloy and a X70 pipeline steel. <i>Engineering Fracture Mechanics</i> , 2019, 219, 106641.	2.0	33
33	Formation of fully equiaxed grain microstructure in additively manufactured AlCoCrFeNiTi0.5 high entropy alloy. <i>Materials and Design</i> , 2019, 184, 108202.	3.3	43
34	Additive manufacturing of fine-grained and dislocation-populated CrMnFeCoNi high entropy alloy by laser engineered net shaping. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 761, 138056.	2.6	94
35	Super long-range diffusion of carbon during proeutectoid ferrite transformation. <i>Journal of Central South University</i> , 2019, 26, 560-566.	1.2	2
36	Hydrogen-enhanced fatigue crack growth in a single-edge notched tensile specimen under in-situ hydrogen charging inside an environmental scanning electron microscope. <i>Acta Materialia</i> , 2019, 170, 87-99.	3.8	50

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37	Assessment of the potential of hydrogen plasma charging as compared to conventional electrochemical hydrogen charging on dual phase steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 754, 613-621.	2.6	33
38	Hydrogen-enhanced fatigue crack growth behaviors in a ferritic Fe-3wt%Si steel studied by fractography and dislocation structure analysis. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 5030-5042.	3.8	16
39	Effect of hydrogen-induced surface steps on the nanomechanical behavior of a CoCrFeMnNi high-entropy alloy revealed by in-situ electrochemical nanoindentation. <i>Intermetallics</i> , 2019, 114, 106605.	1.8	30
40	Plasticity in cryogenic brittle fracture of ferritic steels: Dislocation versus twinning. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 744, 335-339.	2.6	14
41	Hydrogen embrittlement effect observed by in-situ hydrogen plasma charging on a ferritic alloy. <i>Scripta Materialia</i> , 2018, 151, 24-27.	2.6	36
42	Hydrogen Enhanced Fatigue Crack Growth Rates in a Ferritic Fe-3wt%Si Alloy. <i>Procedia Structural Integrity</i> , 2018, 13, 1514-1520.	0.3	4
43	Hydrogen-assisted fatigue crack growth in ferritic steels – a fractographic study. <i>MATEC Web of Conferences</i> , 2018, 165, 03004.	0.1	2
44	In-situ micro-cantilever bending test in environmental scanning electron microscope: Real time observation of hydrogen enhanced cracking. <i>Scripta Materialia</i> , 2017, 127, 19-23.	2.6	56