Navid Saeidi

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

34 papers	646 citations	15 h-index	25 g-index
35 ext. papers	744 ext. citations	3.3 avg, IF	4.29 L-index

#	Paper	IF	Citations
34	Comparison of mechanical properties of martensite/ferrite and bainite/ferrite dual phase 4340 steels. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2009**, 523, 125-129	5.3	85
33	Development of a new ultrafine grained dual phase steel and examination of the effect of grain size on tensile deformation behavior. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2014**, 599, 145-149	5.3	64
32	EBSD study of micromechanisms involved in high deformation ability of DP steels. *Materials and Design*, **2015**, 87, 130-137	8.1	52
31	A novel and simple technique for development of dual phase steels with excellent ductility. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2017**, 680, 197-202	5.3	50
30	Impact properties of tempered bainite–ferrite dual phase steels. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2010**, 527, 5575-5581	5.3	43
29	Damage mechanism and modeling of void nucleation process in a ferrite–martensite dual phase steel. *Engineering Fracture Mechanics*, **2014**, 127, 97-103	4.2	32
28	Effects of initial microstructure and thermomechanical processing parameters on microstructures and mechanical properties of ultrafine grained dual phase steels. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2014**, 612, 54-62	5.3	31
27	Micromechanical analysis of martensite distribution on strain localization in dual phase steels by scanning electron microscopy and crystal plasticity simulation. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2016**, 670, 57-67	5.3	29
26	Microstructure Modelling of Dual-Phase Steel Using SEM Micrographs and Voronoi Polycrystal Models. *Metallography, Microstructure, and Analysis*, **2013**, 2, 156-169	1.1	26
25	Modulation of the mechanical, physical and chemical properties of polyvinylidene fluoride scaffold via non-solvent induced phase separation process for nerve tissue engineering applications. *European Polymer Journal*, **2018**, 104, 115-127	5.2	25
24	Evaluation of Fracture Micromechanisms in a Fine-Grained Dual Phase Steel during Uniaxial Tensile Deformation. *Steel Research International*, **2014**, 85, 1386-1392	1.6	25
23	EBSD Study of Damage Mechanisms in a High-Strength Ferrite-Martensite Dual-Phase Steel. *Journal of Materials Engineering and Performance*, **2015**, 24, 53-58	1.6	21
22	Development of an Advanced Ultrahigh Strength TRIP Steel and Evaluation of Its Unique Strain Hardening Behavior. *Metals and Materials International*, **2020**, 26, 168-178	2.4	20
21	Correlation of Tensile Properties and Strain Hardening Behavior with Martensite Volume Fraction in Dual-Phase Steels. *Transactions of the Indian Institute of Metals*, **2017**, 70, 1575-1584	1.2	19
20	Examination of phase transformation kinetics during step quenching of dual phase steels. *Materials Chemistry and Physics*, **2017**, 187, 203-217	4.4	17
19	Void coalescence and fracture behavior of notched and un-notched tensile tested specimens in fine grain dual phase steel. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2015**, 644, 210-217	5.3	15
18	Development of a new dual phase steel with laminated microstructural morphology. *Materials Chemistry and Physics*, **2017**, 192, 1-7	4.4	13

17	Experimental study of pool boiling characteristic of an aluminized copper surface. *International Journal of Heat and Mass Transfer*, **2015**, 85, 239-246	4.9	12
16	Microstructure, Tensile Properties and Work Hardening Behavior of GTA-Welded Dual-Phase Steels. *Journal of Materials Engineering and Performance*, **2017**, 26, 1414-1423	1.6	11
15	Correlation of Mechanical Properties with Fracture Surface Features in a Newly Developed Dual-Phase Steel. *Journal of Materials Engineering and Performance*, **2015**, 24, 1573-1580	1.6	9
14	Micromechanical analysis of orientation dependency on deformation behavior in DP steels by dislocation density-based crystal plasticity simulation. *Mechanics of Materials*, **2019**, 134, 132-142	3.3	8
13	Examination and modeling of void growth kinetics in modern high strength dual phase steels during uniaxial tensile deformation. *Materials Chemistry and Physics*, **2016**, 172, 54-61	4.4	8
12	Development of a New Ultrafine/Nano Ferrite-Carbide Microstructure by Thermomechanical Processing. *Acta Metallurgica Sinica (English Letters)*, **2015**, 28, 249-253	2.5	7
11	Development of Ultrahigh Strength TRIP Steel Containing High Volume Fraction of Martensite and Study of the Microstructure and Tensile Behavior. *Transactions of the Indian Institute of Metals*, **2018**, 71, 1363-1370	1.2	6
10	Extraordinary strength and ductility obtained in transformation-induced plasticity steel by slightly modifying its chemical composition. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 702, 225-231	5.3	6
9	Microstructural Modifications of Dual-Phase Steels: An Overview of Recent Progress and Challenges. *Steel Research International*, **2020**, 91, 2000178	1.6	3
8	Failure analysis of carbon steel components in a water bath heater and the influence of ethylene glycol concentration. *Engineering Failure Analysis*, **2016**, 66, 533-543	3.2	3
7	Promising effect of copper on the mechanical properties of transformation-induced plasticity steels. *Materials Science and Technology*, **2019**, 35, 1708-1716	1.5	2
6	Microstructure-Toughness Relationship in AISI4340 Steel. *Defect and Diffusion Forum*, **2011**, 312-315, 110-115	0.7	2
5	Effect of Microstructure on Hydrogen Embrittlement and Mechanical Properties of NiTi Biomaterials. *Physics of Metals and Metallography*, **2019**, 120, 740-749	1.2	1
4	Influence of Bainite Morphology on Ductile Fracture Behavior in a 0.4C-CrMoNi Steel. *Steel Research International*, **2015**, 86, 528-535	1.6	1
3	Laminated steel/aluminum composites: Improvement of mechanical properties by annealing treatment. *Materials Today Communications*, **2021**, 29, 102866	2.5	0
2	Application of Artificial Neural Network to Estimate the Fatigue Life of Shot Peened Ti-6Al-4V ELI Alloy411-417		
1	Strain hardening and micro-deformation behavior in advanced DP and TRIP steels: EBSD examinations and crystal plasticity simulations. *Materials Research Express*, **2018**, 5, 126507	1.7	