

Navid Saeidi

List of Publications by Year in descending order

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33
papers

855
citations

471477

17
h-index

477281

29
g-index

35
all docs

35
docs citations

35
times ranked

663
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of mechanical properties of martensite/ferrite and bainite/ferrite dual phase 4340 steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 523, 125-129.	5.6	105
2	EBSD study of micromechanisms involved in high deformation ability of DP steels. <i>Materials and Design</i> , 2015, 87, 130-137.	7.0	78
3	Development of a new ultrafine grained dual phase steel and examination of the effect of grain size on tensile deformation behavior. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 599, 145-149.	5.6	76
4	A novel and simple technique for development of dual phase steels with excellent ductility. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 680, 197-202.	5.6	68
5	Impact properties of tempered bainite-ferrite dual phase steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 5575-5581.	5.6	53
6	Micromechanical analysis of martensite distribution on strain localization in dual phase steels by scanning electron microscopy and crystal plasticity simulation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 670, 57-67.	5.6	40
7	Damage mechanism and modeling of void nucleation process in a ferrite-martensite dual phase steel. <i>Engineering Fracture Mechanics</i> , 2014, 127, 97-103.	4.3	38
8	Microstructure Modelling of Dual-Phase Steel Using SEM Micrographs and Voronoi Polycrystal Models. <i>Metallography, Microstructure, and Analysis</i> , 2013, 2, 156-169.	1.0	35
9	Effects of initial microstructure and thermomechanical processing parameters on microstructures and mechanical properties of ultrafine grained dual phase steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 612, 54-62.	5.6	35
10	Modulation of the mechanical, physical and chemical properties of polyvinylidene fluoride scaffold via non-solvent induced phase separation process for nerve tissue engineering applications. <i>European Polymer Journal</i> , 2018, 104, 115-127.	5.4	32
11	EBSD Study of Damage Mechanisms in a High-Strength Ferrite-Martensite Dual-Phase Steel. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 53-58.	2.5	31
12	Evaluation of Fracture Micromechanisms in a Fine-Grained Dual Phase Steel during Uniaxial Tensile Deformation. <i>Steel Research International</i> , 2014, 85, 1386-1392.	1.8	28
13	Correlation of Tensile Properties and Strain Hardening Behavior with Martensite Volume Fraction in Dual-Phase Steels. <i>Transactions of the Indian Institute of Metals</i> , 2017, 70, 1575-1584.	1.5	25
14	Development of an Advanced Ultrahigh Strength TRIP Steel and Evaluation of Its Unique Strain Hardening Behavior. <i>Metals and Materials International</i> , 2020, 26, 168-178.	3.4	25
15	Development of a new dual phase steel with laminated microstructural morphology. <i>Materials Chemistry and Physics</i> , 2017, 192, 1-7.	4.0	21
16	Examination of phase transformation kinetics during step quenching of dual phase steels. <i>Materials Chemistry and Physics</i> , 2017, 187, 203-217.	4.0	21
17	Void coalescence and fracture behavior of notched and un-notched tensile tested specimens in fine grain dual phase steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 644, 210-217.	5.6	19
18	Experimental study of pool boiling characteristic of an aluminized copper surface. <i>International Journal of Heat and Mass Transfer</i> , 2015, 85, 239-246.	4.8	17

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19	Examination and modeling of void growth kinetics in modern high strength dual phase steels during uniaxial tensile deformation. <i>Materials Chemistry and Physics</i> , 2016, 172, 54-61.	4.0	13
20	Microstructure, Tensile Properties and Work Hardening Behavior of GTA-Welded Dual-Phase Steels. <i>Journal of Materials Engineering and Performance</i> , 2017, 26, 1414-1423.	2.5	13
21	Micromechanical analysis of orientation dependency on deformation behavior in DP steels by dislocation density-based crystal plasticity simulation. <i>Mechanics of Materials</i> , 2019, 134, 132-142.	3.2	13
22	Microstructural Modifications of Dual-Phase Steels: An Overview of Recent Progress and Challenges. <i>Steel Research International</i> , 2020, 91, 2000178.	1.8	12
23	Correlation of Mechanical Properties with Fracture Surface Features in a Newly Developed Dual-Phase Steel. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 1573-1580.	2.5	11
24	Extraordinary strength and ductility obtained in transformation-induced plasticity steel by slightly modifying its chemical composition. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 702, 225-231.	5.6	10
25	Development of Ultrahigh Strength TRIP Steel Containing High Volume Fraction of Martensite and Study of the Microstructure and Tensile Behavior. <i>Transactions of the Indian Institute of Metals</i> , 2018, 71, 1363-1370.	1.5	8
26	Development of a New Ultrafine/Nano Ferrite-Carbide Microstructure by Thermomechanical Processing. <i>Acta Metallurgica Sinica (English Letters)</i> , 2015, 28, 249-253.	2.9	7
27	Influence of Bainite Morphology on Ductile Fracture Behavior in a 0.4C-CrMoNi Steel. <i>Steel Research International</i> , 2015, 86, 528-535.	1.8	5
28	Promising effect of copper on the mechanical properties of transformation-induced plasticity steels. <i>Materials Science and Technology</i> , 2019, 35, 1708-1716.	1.6	4
29	Microstructure-Toughness Relationship in AISI4340 Steel. <i>Defect and Diffusion Forum</i> , 0, 312-315, 110-115.	0.4	3
30	Failure analysis of carbon steel components in a water bath heater and the influence of ethylene glycol concentration. <i>Engineering Failure Analysis</i> , 2016, 66, 533-543.	4.0	3
31	Laminated steel/aluminum composites: Improvement of mechanical properties by annealing treatment. <i>Materials Today Communications</i> , 2021, 29, 102866.	1.9	3
32	Strain hardening and micro-deformation behavior in advanced DP and TRIP steels: EBSD examinations and crystal plasticity simulations. <i>Materials Research Express</i> , 2018, 5, 126507.	1.6	2
33	Effect of Microstructure on Hydrogen Embrittlement and Mechanical Properties of NiTi Biomaterials. <i>Physics of Metals and Metallography</i> , 2019, 120, 740-749.	1.0	1