Hatem S Zurob

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Driving Force and Logic of Development of Advanced High Strength Steels for Automotive Applications. Steel Research International, 2013, 84, 937-947.	1.0	165
2	New insights to the effects of ausforming on the bainitic transformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 626, 34-40.	2.6	76
3	ALEMI: A Ten-Year History of Discussions of Alloying-Element Interactions with Migrating Interfaces. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 3703-3718.	1.1	70
4	Superior fracture toughness in a high-strength austenitic steel with heterogeneous lamellar microstructure. Acta Materialia, 2022, 226, 117642.	3.8	53
5	Characterizing precipitate evolution of an Al–Zn–Mg–Cu-based commercial alloy during artificial aging and non-isothermal heat treatments by in situ electrical resistivity monitoring. Materials Characterization, 2016, 117, 47-56.	1.9	46
6	Strong and ductile steel via high dislocation density and heterogeneous nano/ultrafine grains. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 759, 1-10.	2.6	46
7	Study of Grain-Growth Kinetics in Delta-Ferrite and Austenite with Application to Thin-Slab Cast Direct-Rolling Microalloyed Steels. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2010, 41, 2112-2120.	1.1	30
8	A Novel Approach to Model Static Recrystallization of Austenite During Hot Rolling of Nb Microalloyed Steel. Part I: Precipitate-Free Case. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 1862-1871.	1.1	30
9	Mechanical Behavior of Carbide-free Medium Carbon Bainitic Steels. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 1352-1361.	1.1	24
10	Using architectured materials to control localized shear fracture. Acta Materialia, 2018, 143, 298-305.	3.8	24
11	Strength-ductility synergy in a 1.4 GPa austenitic steel with a heterogeneous lamellar microstructure. Journal of Materials Science and Technology, 2022, 106, 133-138.	5.6	22
12	Compositionally Graded Steels: A Strategy for Materials Development. Advanced Engineering Materials, 2009, 11, 992-999.	1.6	19
13	Molecular Dynamics Study of Solute Pinning Effects on Grain Boundary Migration in the Aluminum Magnesium Alloy System. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 1889-1897.	1.1	19
14	Effect of Strain Rate on the Bainitic Transformation in Fe-C-Mn-Si Medium-Carbon Bainitic Steels. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 573-580.	1.1	14
15	The effect of chemical patterning induced by cyclic plasticity on the formation of precipitates during aging of an Al–Mg–Si alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 815, 141265.	2.6	14
16	Transformation kinetics of carbide-free bainitic steels during isothermal holding above and below MS. Journal of Materials Research and Technology, 2020, 9, 13594-13606.	2.6	12
17	Kinetics of Delta-Ferrite to Austenite Phase Transformation in a Two-Phase Fe-Al-C Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 3349-3357.	1.1	11
18	Effects of solutes and temperature on high-temperature deformation and subsequent recovery in hot-rolled low alloy steels. Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 765, 138324.	2.6	11

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19	Influence of Microstructural Length Scale on the Strength and Annealing Behavior of Pearlite, Bainite, and Martensite. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 1454-1461.	1.1	10
20	Characterization of the Isothermal Precipitation Kinetics of an Al-Zn-Mg-Cu Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 5157-5168.	1.1	10
21	NbC precipitation during multi-pass deformation of a nickel-based model alloy: Experiments and modelling. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 772, 138748.	2.6	10
22	Evaluating the Effect of the Competition between NbC Precipitation and Grain Size Evolution on the Hot Ductility of Nb Containing Steels. ISIJ International, 2019, 59, 1064-1071.	0.6	10
23	Analytical Model of the Unbending Behavior of Corrugated Reinforcements. Advanced Engineering Materials, 2014, 16, 872-877.	1.6	9
24	A Comparison of Ferrite Growth Kinetics under Denitriding and Decarburizing Conditions. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 2449-2454.	1.1	9
25	Effect of water vapour partial pressure on the chromia (Cr ₂ O ₃)-based scale stability. Canadian Metallurgical Quarterly, 2018, 57, 89-98.	0.4	9
26	Study of processing, microstructure and mechanical properties of hot rolled ultra-high strength steel. Ironmaking and Steelmaking, 2019, 46, 535-541.	1.1	9
27	In Situ Study on Interrupted Growth Behavior and Crystallography of Bainite. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 817-825.	1.1	9
28	Interface Segregation and Nitrogen Measurement in Fe–Mn–N Steel by Atom Probe Tomography. Microscopy and Microanalysis, 2017, 23, 385-395.	0.2	8
29	Effect of Solute Nb on Grain Growth in Fe-30ÂPct Mn Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 3674-3682.	1.1	8
30	Use of in-situ laser-ultrasonics measurements to develop robust models combining deformation, recovery, recrystallization and grain growth. Materialia, 2020, 12, 100812.	1.3	8
31	Effect of Mn and C on Grain Growth in Mn Steels. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 905-914.	1.1	7
32	New insights into the effects of deformation below-M on isothermal kinetics of bainitic transformation. Journal of Materials Research and Technology, 2020, 9, 15750-15758.	2.6	7
33	A novel approach to producing architectured ultra-high strength dual phase steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 833, 142582.	2.6	7
34	Development of medium-to-high carbon hot-rolled steel strip on a thin slab casting direct strip production complex. Ironmaking and Steelmaking, 2018, 45, 603-610.	1.1	6
35	Control of edge breaks during cold mill processing of commercial and drawing quality low-carbon steels. Ironmaking and Steelmaking, 2019, 46, 656-662.	1.1	6
36	Effect of Heat Treatment on Microstructure Evolution of X38CrMoV5-1 Hot-Work Tool Steel Produced by L-PBF. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 2564-2575.	1.1	6

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37	Effect of Nb on Ferrite Recrystallization and Austenite Decomposition in Microalloyed Steels. Steel Research International, 2007, 78, 210-215.	1.0	5
38	Studies on softening kinetics of niobium microalloyed steel using stress relaxation technique. Frontiers of Materials Science in China, 2010, 4, 197-201.	0.5	5
39	Corrugation Reinforced Composites: A Method for Filling Holes in Materialâ€Property Space. Advanced Engineering Materials, 2018, 20, 1700834.	1.6	5
40	Effect of C and N and their absence on the kinetics of austenite-ferrite phase transformations in Fe-0.5Mn alloy. Acta Materialia, 2018, 150, 224-235.	3.8	5
41	Austenite Grain Growth in High Manganese Steels. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 5760-5766.	1.1	5
42	Control of Upstream Austenite Grain Coarsening during the Thin-Slab Cast Direct-Rolling (TSCDR) Process. Metals, 2019, 9, 158.	1.0	5
43	Calculation of Initial Stage of Solidified Shell Deformation during <i>γ</i> to <i>δ</i> Transformation in Mold. ISIJ International, 2019, 59, 2036-2043.	0.6	5
44	A Physics-Based Mean-Field Model for Ferrite Recovery and Recrystallization. Metals, 2020, 10, 622.	1.0	5
45	NbC precipitation during two-pass hot deformation of a nickel-based model alloy at 700 °C: Experiments and modelling. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 802, 140447.	2.6	5
46	Model Fe-Al Steel with Exceptional Resistance to High Temperature Coarsening. Part I: Coarsening Mechanism and Particle Pinning Effects. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 178-189.	1.1	4
47	Comparing the effect of geometry on the stress-strain response of isolated corrugation structures and corrugation reinforced composite structures. Composite Structures, 2018, 187, 308-315.	3.1	4
48	An Original Way for Producing a 2.4 GPa Strength Ductile Steel by Rolling of Martensite. ISIJ International, 2014, 54, 235-239.	0.6	4
49	Recrystallization and Grain Coarsening Control in Processing High Niobium Microalloyed Line Pipe Steels. Materials Science Forum, 2013, 753, 391-396.	0.3	3
50	Model Fe-Al Steel with Exceptional Resistance to High Temperature Coarsening. Part II: Experimental Validation and Applications. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 190-198.	1.1	2
51	Novel approach for the development of tailored heterogenous structures in steel. Materialia, 2020, 13, 100831.	1.3	2
52	Increasing Necking Strain through Corrugation: Identifying Composite Systems That Can Benefit from Corrugated Geometry. Materials, 2020, 13, 5175.	1.3	2
53	Mechanical Properties of Ausformed Carbide-Free Bainite. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 2402-2410.	1.1	2
54	Effect of temperature, carbon content and crystallography on the lengthening kinetics of bainitic ferrite laths. Materials Characterization, 2022, 187, 111860.	1.9	2

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55	Modeling of the dynamics of transient liquid films in ternary systems. Journal of Phase Equilibria and Diffusion, 2006, 27, 699-706.	0.5	1
56	On Control of Grain Coarsening of Austenite by Nano-Scale Precipitate Engineering of TiN-NbC Composite in Ti-Nb Microalloyed Steel. , 2016, , 119-124.		0
57	A New Alloy System Having Autogenous Grain Pinning at High Temperature. Minerals, Metals and Materials Series, 2019, , 73-86.	0.3	0
58	Calculation of Initial Stage of Solidified Shell Deformation during δ to γ Transformation in Mold. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2021, 107, 112-120.	0.1	0
59	On the Decarburization of Surface Pearlite. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 3198.	1.1	0
60	Workshop focuses on the rise in MSE undergraduates. MRS Bulletin, 2021, 46, 5-11.	1.7	0
61	Hot Deformation Behavior of an Fe-Al Steel in the Two Phase Region. , 2014, , 927-933.		0
62	Evaluating the Effect of the Competition between NbC Precipitation and Grain Size Evolution on the Hot Ductility of Nb Containing Steels. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2020, 106, 429-437.	0.1	0

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