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Dynamic strain ageing of an austenitic  
superalloy Temperature and strain rate effects

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Materials Science & Engineering A: Structural  
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#	Paper	IF	Citations
51	Mechanism of yield strength anomaly of Alloy 617. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2009</b> , 517, 276-280	5.3	29
50	Creep deformation of Alloys 617 and 276 at 750â500°C. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2009</b> , 520, 184-188	5.3	33
49	Strain rate and temperature effects on the critical strain for PortevinâChatelier effect. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2010</b> , 527, 5175-5180	5.3	21
48	High Temperature Fatigue Behavior of 23Cr26Ni Heat Resistant Steel. <i>Key Engineering Materials</i> , <b>2010</b> , 452-453, 433-436	0.4	
47	Temperature and Load Ratio Effects on Crack-Growth Behavior of Austenitic Superalloys. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , <b>2010</b> , 132,	1.8	3
46	Evaluation of yield strength anomaly of Alloy 718 at 700â800°C. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 496, 393-398	5.7	11
45	Intermediate temperature embrittlement in high-purity Ni and binary Ni(Bi) alloy. <i>Scripta Materialia</i> , <b>2011</b> , 65, 428-431	5.6	28
44	Mechanism of Intermediate Temperature Embrittlement of Ni and Ni-based Superalloys. <i>Critical Reviews in Solid State and Materials Sciences</i> , <b>2012</b> , 37, 181-214	10.1	82
43	TEM Characterization of Self-ion Irradiation Damage in Nickel-base Alloy C-276 at Elevated Temperature. <i>Journal of Materials Science and Technology</i> , <b>2012</b> , 28, 1039-1045	9.1	18
42	Investigation on the relationship between intermediate temperature embrittlement and intergranular precipitate in Ni(Bi) alloy. <i>Materials &amp; Design</i> , <b>2012</b> , 34, 155-158		7
41	Effect of temperature and strain rate on serrated flow behaviour of Hastelloy X. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2012</b> , 534, 580-587	5.3	42
40	Dynamic Strain Aging in a Newly Developed NiâCo-Base Superalloy with Low Stacking Fault Energy. <i>Journal of Materials Science and Technology</i> , <b>2013</b> , 29, 873-878	9.1	22
39	Unified mechanism of intergranular embrittlement based on non-equilibrium grain boundary segregation. <i>International Materials Reviews</i> , <b>2013</b> , 58, 263-295	16.1	26
38	Pulsed Laser Welding of Hastelloy C-276: High-Temperature Mechanical Properties and Microstructure. <i>Materials and Manufacturing Processes</i> , <b>2013</b> , 28, 524-528	4.1	18
37	Investigation on relationship between intermediate temperature embrittlement and intergranular precipitation in AlCoCrCuFeNi alloy. <i>International Journal of Cast Metals Research</i> , <b>2014</b> , 27, 199-201	1	2
36	Hot ductility behavior of Incoloy901 superalloy in the cast and wrought conditions. <i>International Journal of Materials Research</i> , <b>2014</b> , 105, 342-349	0.5	
35	Ab initio molecular dynamics investigations of low-energy recoil events in Ni and NiCo. <i>Journal of Physics Condensed Matter</i> , <b>2015</b> , 27, 435006	1.8	10

34	Verification of interpretation of dynamic strain aging for intermediate temperature embrittlement in Ni-Bi alloy. <i>Journal of Iron and Steel Research International</i> , <b>2015</b> , 22, 602-606	1.2	2
33	Identical mechanism of isochronal and isothermal embrittlement in Ni(Bi) alloy: Thermo-induced non-equilibrium grain-boundary segregation of Bi. <i>Applied Surface Science</i> , <b>2015</b> , 337, 90-104	6.7	5
32	Kinetics of Uniaxial Tensile Flow and Work Hardening Behavior of Type 316L(N) Austenitic Stainless Steel in the Framework of Two-Internal-Variable Approach. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2015</b> , 46, 674-687	2.3	13
31	Tensile behavior of nickel-base single-crystal superalloy DD6. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 636, 608-612	5.3	39
30	Tensile flow and work hardening behaviour of type 316L(N) austenitic stainless steel in the framework of one-internal-variable and two-internal-variable approaches. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 636, 269-278	5.3	19
29	The tensile behavior of GH3535 superalloy at elevated temperature. <i>Materials Chemistry and Physics</i> , <b>2016</b> , 182, 22-31	4.4	36
28	Effect of long-term thermal exposure on the hot ductility behavior of GH3535 alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2016</b> , 673, 299-306	5.3	10
27	Comparative Tensile Flow and Work-Hardening Behavior of 9 Pct Chromium Ferritic-Martensitic Steels in the Framework of the Estrin-Mecking Internal-Variable Approach. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2016</b> , 47, 2642-2655	2.3	8
26	The effect of thermo-mechanical treatment on the high temperature tensile behavior of an alumina-forming austenitic steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2016</b> , 651, 795-804	5.3	14
25	Effect of dynamic strain aging on the deformation behavior and microstructure of Cu-15Ni-8Sn alloy. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 718, 182-187	5.7	14
24	Effects of temperature and strain rate on tensile deformation behavior of superalloy UNS N10276. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 699, 88-98	5.3	16
23	The characteristics of serration in Al <sub>0.5</sub> CoCrFeNi high entropy alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 702, 96-103	5.3	50
22	Evolution of microstructure and tensile properties during solution treatment of nickel-based UNS N10276 alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 705, 335-347	5.3	3
21	Expanding the applicable duration for shrink fitting of the ultrathin-walled reactor coolant pump rotor-can. <i>Annals of Nuclear Energy</i> , <b>2017</b> , 110, 1217-1223	1.7	5
20	The effect of aging on the serrated yielding and intermediate temperature embrittlement of nickel-base C-276 alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 714, 59-67	5.3	7
19	Influence of dynamic strain aging on the mechanical properties and microstructural evolution for Alloy 800H during hot deformation. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 724, 37-44	5.3	11
18	Hot deformation characteristics and microstructure evolution of Hastelloy C-276. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 712, 240-254	5.3	32
17	Influences of Initial Microstructures on Portevin-Le Chatelier Effect and Mechanical Properties of a Ni-Al-Ti Base Superalloy. <i>Advanced Engineering Materials</i> , <b>2018</b> , 20, 1800234	3.5	14

16	Effect of strain rate and temperature on the serration behavior of SA508-III RPV steel in the dynamic strain aging process. <i>Journal of Iron and Steel Research International</i> , <b>2018</b> , 25, 767-775	1.2	2
15	Effects of initial microstructures on serrated flow features and fracture mechanisms of a nickel-based superalloy. <i>Materials Characterization</i> , <b>2018</b> , 144, 9-21	3.9	33
14	Effect of dynamic strain aging and precipitation on the hot deformation behavior of 253MA heat-resistant alloy. <i>Journal of Materials Science</i> , <b>2019</b> , 54, 1716-1727	4.3	6
13	Dynamic behavior and modified artificial neural network model for predicting flow stress during hot deformation of Alloy 925. <i>Materials Today Communications</i> , <b>2020</b> , 25, 101329	2.5	12
12	Tensile deformation micro-mechanisms of a polycrystalline nickel base superalloy: From jerky flow to softening. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 807, 140905	5.3	2
11	Comparison in Deformation Behavior, Microstructure, and Failure Mechanism of Nickel Base Alloy 625 under Two Strain Rates. <i>Materials</i> , <b>2021</b> , 14,	3.5	0
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9	The Portevin-Le Chatelier (PLC) effect in an Al-Cu aluminum alloy fabricated by selective laser melting. <i>Materials Characterization</i> , <b>2021</b> , 178, 111198	3.9	11
8	Tensile properties and deformation mechanisms of nimonic 105 superalloy at different temperatures. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 828, 142028	5.3	2
7	ANN Modeling of Nickel Base Super Alloys for Time Dependent Deformation. <i>Journal of Automation and Control Engineering</i> , <b>2014</b> , 2, 353-356		4
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5	Application of MTS Model to Nickel-Base Superalloys. <b>2022</b> , 377-407		0
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3	Deformation behaviour and strain rate sensitivity of 304L SS at elevated temperatures. 1-11		0
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1	The Portevin-Le Chatelier effect in nickel-base superalloys: Origins, consequences and comparison to strain ageing in other alloy systems. <b>2023</b> , 132, 101038		0