Arun Kumar Bhaduri

List of Publications by Year
in descending order

142 papers	3,551 citations	126708 33 h-index	168136 53 g-index
144 all docs	144 docs citations	144 times ranked	2188 citing authors

#	Article	IF	Citations
1	A comparative study on Johnson Cook, modified Zerilliâ€“Armstrong and Arrhenius-type constitutive models to predict elevated temperature flow behaviour in modified 9Crâ€“1Mo steel. Computational Materials Science, 2009, 47, 568-576.	1.4	330
2	Joining of titanium to 304L stainless steel by friction welding. Journal of Materials Processing Technology, 2009, 209, 5862-5870.	3.1	169
3	A thermo-viscoplastic constitutive model to predict elevated-temperature flow behaviour in a titanium-modified austenitic stainless steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 526, 1-6.	2.6	157
4	Comparison of creep rupture behaviour of type 316L(N) austenitic stainless steel joints welded by TIG and activated TIG welding processes. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 6971-6980.	2.6	101
5	Transition metal joints for steam generatorsâ€”An overview. International Journal of Pressure Vessels and Piping, 1994, 58, 251-265.	1.2	98
6	Optimization of hot working parameters for thermo-mechanical processing of modified 9Crâ€“1Mo (P91) steel employing dynamic materials model. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 5204-5211.	2.6	87
7	A study on influence of heat input variation on microstructure of reduced activation ferritic martensitic steel weld metal produced by GTAW process. Fusion Engineering and Design, 2011, 86, 192-197.	1.0	80
8	Analysis and mathematical modelling of elevated temperature flow behaviour of austenitic stainless steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 1937-1943.	2.6	80
9	Flow behavior and microstructural evolution during hot deformation of AISI Type 316 L(N) austenitic stainless steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 8565-8572.	2.6	78
10	New insights into the relationship between dynamic softening phenomena and efficiency of hot working domains of a nitrogen enhanced 316L(N) stainless steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 598, 368-375.	2.6	74
11	Delta ferrite in the weld metal of reduced activation ferritic martensitic steel. Journal of Nuclear Materials, 2014, 455, 343-348.	1.3	65
12	A new relationship between the stress multipliers of Garofalo equation for constitutive analysis of hot deformation in modified 9Crâ€“1Mo (P91) steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 6066-6071.	2.6	64
13	Study on tempering behaviour of AISI 410 stainless steel. Materials Characterization, 2015, 100, 81-87.	1.9	64
14	Selection of hardfacing material for components of the Indian Prototype Fast Breeder Reactor. Journal of Nuclear Materials, 2004, 334, 109-114.	1.3	63
15	Optimization of hybrid laser â€“ TIG welding of 316LN steel using response surface methodology (RSM). Optics and Lasers in Engineering, 2017, 94, 27-36.	2.0	62
16	Strain dependent rate equation to predict elevated temperature flow behavior of modified 9Cr-1Mo (P91) steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 1071-1077.	2.6	59
17	Effect of normalization temperatures on ductileâ€“brittle transition temperature of a modified 9Crâ€“1Mo steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 618, 219-231.	2.6	59
18	Studies on twinning and grain boundary character distribution during anomalous grain growth in a Ti-modified austenitic stainless steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 515, 134-140.	2.6	55

#	Article	IF	Citations
19	Role of hierarchical martensitic microstructure on localized deformation and fracture of 9Cr-1Mo steel under impact loading at different temperatures. International Journal of Plasticity, 2018, 104, 104-133.	4.1	53
20	Study on microstructure and wear properties of different nickel base hardfacing alloys deposited on austenitic stainless steel. Surface and Coatings Technology, 2014, 244, 180-188.	2.2	52
21	Effect of deformation temperature on the ductileâ€“brittle transition behavior of a modified 9Crâ€“1Mo steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 630, 58-70.	2.6	48
22	Progress in the development of reduced activation ferritic-martensitic steels and fabrication technologies in India. Fusion Engineering and Design, 2010, 85, 1460-1468.	1.0	46
23	Optimization of processing parameters based on high temperature flow behavior and microstructural evolution of a nitrogen enhanced 316L(N) stainless steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 552, 236-244.	2.6	45
24	Residual stress measurement round robin on an electron beam welded joint between austenitic stainless steel 316L(N) and ferritic steel P91. International Journal of Pressure Vessels and Piping, 2017, 154, 41-57.	1.2	45
25	Influence of welding process on Type IV cracking behavior of P91 steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 613, 148-158.	2.6	43
26	Development of fast breeder reactor technology in India. Progress in Nuclear Energy, 2017, 101, 19-42.	1.3	43
27	Effect of prior microstructure on microstructure and mechanical properties of modified 9Crâ€“1Mo steel weld joints. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 477, 185-192.	2.6	42
28	Selection of filler wire for and effect of auto tempering on the mechanical properties of dissimilar metal joint between 403 and 304L(N) stainless steels. Journal of Materials Processing Technology, 2009, 209, 1428-1435.	3.1	40
29	Occurrence of dynamic strain aging in Alloy 617M under low cycle fatigue loading. International Journal of Fatigue, 2017, 100, 12-20.	2.8	39
30	Influence of nitrogen on kinetics of dynamic recrystallization in Fe-Cr-Ni-Mo steel. Vacuum, 2018, 156, 20-29.	1.6	39
31	Effect of ageing on the microstructural stability of cold-worked titanium-modified 15Cr-15Niâ€”2.5Mo austenitic stainless steel. Journal of Nuclear Materials, 1992, 186, 177-184.	1.3	37
32	Comparative assessment of remnant tensile properties of modified 9Cr-1Mo steel under prior low cycle fatigue and creep-fatigue interaction loading. International Journal of Fatigue, 2017, 103, 342-352.	2.8	37
33	Repair welding of cracked steam turbine blades using austenitic and martensitic stainless-steel consumables. Nuclear Engineering and Design, 2001, 206, 249-259.	0.8	35
34	Real-Time Monitoring of Weld Pool during GTAW using Infra-Red Thermography and analysis of Infra-Red thermal images. Welding in the World, Le Soudage Dans Le Monde, 2011, 55, 83-89.	1.3	34
35	Studies on creep-fatigue interaction behaviour of Alloy 617M. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 730, 16-23.	2.6	34
36	Prediction of high temperature flow stress in 9Crâ€“1Mo ferritic steel during hot compression. International Journal of Pressure Vessels and Piping, 2011, 88, 501-506.	1.2	33

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37	A novel procedure for fabrication of wear-resistant bushes for high-temperature application. Journal of Materials Processing Technology, 2003, 141, 60-66.	3.1	32
38	Delta ferrite prediction in stainless steel welds using neural network analysis and comparison with other prediction methods. Journal of Materials Processing Technology, 2003, 142, 20-28.	3.1	28
39	Effect of thermal aging on microstructure, hardness, tensile and impact properties of Alloy 617. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 710, 47-56.	2.6	28
40	Advanced materials for structural components of Indian sodium-cooled fast reactors. International Journal of Pressure Vessels and Piping, 2016, 139-140, 123-136.	1.2	27
41	Study of fatigue crack growth in RAFM steel using acoustic emission technique. Journal of Constructional Steel Research, 2016, 126, 107-116.	1.7	27
42	Study of creep crack growth in a modified 9Crâ€“1Mo steel weld metal and heat affected zone. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 655, 300-309.	2.6	27
43	Improving 410NiMo weld metal toughness by PWHT. Journal of Materials Processing Technology, 2011, 211, 2032-2038.	3.1	26
44	Investigation on influence of dynamic strain ageing on fatigue crack growth behaviour of modified 9Crâ€“1Mo steel. International Journal of Fatigue, 2012, 43, 242-245.	2.8	25
45	Effect of aging on the microstructure and tensile properties of an alloy 800/9Cr-1Mo steel joint. International Journal of Pressure Vessels and Piping, 1995, 61, 25-33.	1.2	24
46	Evaluation of repair welding procedures for 2.25Crâ€“1Mo and 9Crâ€“1Mo steel welds. Science and Technology of Welding and Joining, 2001, 6, 89-93.	1.5	24
47	Development of Stainless Steels in Nuclear Industry: With Emphasis on Sodium Cooled Fast Spectrum Reactors History, Technology and Foresight. Advanced Materials Research, 0, 794, 3-25.	0.3	24
48	Mechanical properties of similar and dissimilar weldments of RAFMS and AISI 316L (N) SS prepared by electron beam welding process. Fusion Engineering and Design, 2014, 89, 1605-1610.	1.0	24
49	Friction and wear behaviour of Ni-Cr-B hardface coating on 316LN stainless steel in liquid sodium at elevated temperature. Journal of Nuclear Materials, 2017, 495, 431-437.	1.3	23
50	Effect of post-weld heat treatment (PWHT) time and multiple PWHT on mechanical properties of multi-pass TIG weld joints of modified 9Cr-1Mo steel. Welding in the World, Le Soudage Dans Le Monde, 2014, 58, 389-395.	1.3	21
51	Mechanical properties of 9Crâ€“1W reduced activation ferritic martensitic steel weldment prepared by electron beam welding process. Fusion Engineering and Design, 2014, 89, 2672-2678.	1.0	21
52	On the anomalous temperature dependency of fatigue crack growth of SS 316(N) weld. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 5122-5129.	2.6	19
53	Effect of Heat Treatment on Ductile-Brittle Transition Behaviour of 9Cr-1Mo Steel. Procedia Engineering, 2014, 86, 287-294.	1.2	19
54	Development of IN-RAFM steel and fabrication technologies for Indian TBM. Fusion Engineering and Design, 2016, 109-111, 1422-1431.	1.0	19

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55	Dependency of rate sensitive DRX behaviour on interstitial content of a Fe-Cr-Ni-Mo alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 743, 148-158.	2.6	19
56	High temperature wear and friction behaviour of 15Crâ€“15Niâ€“2Mo titanium-modified austenitic stainless steel in liquid sodium. Wear, 2010, 270, 1-4.	1.5	18
57	Effect of boron addition on pitting corrosion resistance of modified 9Crâ€“1Mo steel: Application of electrochemical noise. Materials Chemistry and Physics, 2011, 130, 536-547.	2.0	18
58	Creep rupture strength of activated-TIG welded 316L(N) stainless steel. Journal of Nuclear Materials, 2011, 413, 36-40.	1.3	18
59	Development of filler wires for welding of reduced activation ferritic martenstic steel for India's test blanket module of ITER. Fusion Engineering and Design, 2011, 86, 446-451.	1.0	18
60	Mechanical Behaviour of SS 316 (N) Weld after Long Term Exposure to Service Temperatures. Procedia Engineering, 2011, 10, 2725-2730.	1.2	18
61	Effect of Nitrogen Addition and Test Temperatures on Elastic-Plastic Fracture Toughness of SS 316 LN. Procedia Engineering, 2014, 86, 302-307.	1.2	18
62	Long term creep-fatigue interaction studies on India-specific reduced activation ferritic-martensitic (IN-RAFM) steel. International Journal of Fatigue, 2017, 98, 259-268.	2.8	17
63	Optimised post-weld heat treatment procedures and heat input for welding 17â€“4PH stainless steel. Science and Technology of Welding and Joining, 1999, 4, 295-301.	1.5	16
64	Failure analysis of a pinion. Engineering Failure Analysis, 2005, 12, 287-298.	1.8	16
65	Status of India-specific Reduced Activation Ferritic-Martensitic steel and fabrication technologies development for LLCB TBM. Fusion Engineering and Design, 2017, 125, 263-268.	1.0	16
66	A micro-mechanism to explain the post-DRX grain growth at temperatures > 0.8Tm. Materials Characterization, 2018, 136, 100-110.	1.9	14
67	Friction Welding of Titanium to 304L Stainless Steel Using Interlayers. Praktische Metallographie/Practical Metallography, 2011, 48, 188-207.	0.1	13
68	Performance of a trimetallic transition joint. Materials at High Temperatures, 1992, 10, 45-50.	0.5	12
69	Assessment of Deformation Field during High Strain Rate Tensile Tests of RAFM Steel Using DIC Technique. Procedia Engineering, 2014, 86, 131-138.	1.2	12
70	Effect of change in microstructures due to simulation temperatures on the low cycle fatigue behavior of P91 steel. International Journal of Fatigue, 2020, 140, 105847.	2.8	12
71	New toughness parameters from the tensile test â€" A first report. Journal of Nuclear Materials, 1993, 200, 70-77.	1.3	11
72	Fatigue failure of a fillet welded nozzle joint. Engineering Failure Analysis, 2003, 10, 667-674.	1.8	11

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73	Prediction of Ferrite Number in Stainless Steel Welds using Bayesian Neural Network Model. Welding in the World, Le Soudage Dans Le Monde, 2007, 51, 15-28.	1.3	11
74	A Study of Fracture Mechanisms in RAFM Steel in the Ductile to Brittle Transition Temperature Regime. Procedia Engineering, 2014, 86, 258-263.	1.2	11
75	Influence of microstructural inhomogeneities on the fracture toughness of modified 9Crâ€“1Mo steel at 298â€“823K. Journal of Nuclear Materials, 2012, 421, 15-21.	1.3	10
76	Fatigue Crack Growth Behavior of 316LN Stainless Steel with Different Nitrogen Contents. Procedia Engineering, 2013, 55, 716-721.	1.2	10
77	Dynamic fracture behaviour of thermo-mechanically processed modified 9Crâ€“1Mo steel. Engineering Fracture Mechanics, 2015, 149, 74-88.	2.0	10
78	Short Communication on â€œSelf-welding susceptibility of NiCr-B hardfaced coating with and without NiCr-B coating on 316LN stainless steel in flowing sodium at elevated temperatureâ€• Journal of Nuclear Materials, 2017, 484, 141-147.	1.3	10
79	Relative effect of B and N concentrations on the microstructural stability and mechanical properties of modified 9Cr-1Mo steel. Journal of Alloys and Compounds, 2021, 867, 158971.	2.8	10
80	Evaluation of Hot Cracking Susceptibility of Some Austenitic Stainless Steels and a Nickel-Base Alloy. Welding in the World, Le Soudage Dans Le Monde, 2008, 52, 4-17.	1.3	9
81	Study of Hot Cracking Behaviour of Nitrogen-Enhanced Austenitic Stainless Steels using Varestraint and Hot Ductility Tests. Welding in the World, Le Soudage Dans Le Monde, 2010, 54, R322-R332.	1.3	9
82	Nitrogen Enhanced 316LN Austenitic Stainless Steel for Sodium Cooled Fast Reactors. Advanced Materials Research, 2013, 794, 670-680.	0.3	9
83	Development of Improved Materials for Structural Components of Sodium-Cooled Fast Reactors. Procedia Engineering, 2015, 130, 598-608.	1.2	9
84	Evaluation of self-welding susceptibility of an austenitic stainless steel (alloy D9) in sodium. Journal of Nuclear Materials, 2008, 374, 1-8.	1.3	8
85	Improvement in Creep Resistance of Modified 9Cr-1Mo Steel Weldment by Boron Addition. Welding in the World, Le Soudage Dans Le Monde, 2012, 56, 10-17.	1.3	8
86	Development of IFAC-1 SS: An Advanced Austenitic Stainless Steel for Cladding and Wrapper Tube Applications in Sodium-Cooled Fast Reactors. Advanced Materials Research, 0, 794, 749-756.	0.3	8
87	Assessing the Irradiation Defect Induced Changes using Dislocation Based Crystal Plasticity Model for BCC Materials. Procedia Structural Integrity, 2017, 5, 294-301.	0.3	8
88	Design and analysis of formed bellows for nuclear applications- Case study. Procedia Structural Integrity, 2019, 14, 855-863.	0.3	8
89	Understanding room temperature deformation behavior through indentation studies on modified 9Crâ€“1Mo steel weldments. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 552, 419-426.	2.6	7
90	Fatigue Crack Growth Characterisation of RAFM Steel using Acoustic Emission Technique. Procedia Engineering, 2013, 55, 722-726.	1.2	7

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91	Effect of Boron on Creep Behaviour of Inter-Critically Annealed Modified 9Cr-1Mo Steel. Procedia Engineering, 2013, 55, 402-407.	1.2	7
92	Resisting stress for constitutive analysis of hot deformation in modified 9Crâ€“1Mo (P91) steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 560, 170-177.	2.6	7
93	Influence of Coincidence Site Lattice Boundary on Creep Resistance of P91 Steel Weldments. Procedia Engineering, 2014, 86, 80-87.	1.2	7
94	Evaluation of fracture resistance of AISI type 316LN stainless steel base and welded pipes with circumferential through-wall crack. International Journal of Pressure Vessels and Piping, 2019, 178, 104008.	1.2	7
95	Vacuum brazing of Inconel 600 sleeve to 316L stainless steel sheath of mineral insulated cable. Journal of Materials Processing Technology, 2008, 198, 73-76.	3.1	6
96	Hardfacing of austenitic stainless steel with nickel-base NiCr alloy. International Journal of Microstructure and Materials Properties, 2011, 6, 40.	0.1	6
97	Study of Deformation Behavior of Simulated Inter-Critical Heat-Affected Zones of Modified 9Cr-1Mo Steel. Materials and Manufacturing Processes, 2011, 26, 62-65.	2.7	6
98	Fatigue crack growth behavior of RAFM steel in Paris and threshold regimes at different temperatures. Nuclear Engineering and Design, 2014, 269, 103-107.	0.8	6
99	Study of magnetism in Niâ€“Cr hardface alloy deposit on 316LN stainless steel using magnetic force microscopy. Journal of Magnetism and Magnetic Materials, 2015, 385, 112-118.	1.0	6
100	Influence of electron beam welding parameters on microstructure and Charpy impact properties of boron-added modified 9Cr-1Mo steel weld. Welding in the World, Le Soudage Dans Le Monde, 2016, 60, 1141-1146.	1.3	6
101	Role of grain boundary ferrite layer in dynamic recrystallization of semi-solid processed type 304L austenitic stainless steel. Materials Letters, 2016, 179, 65-68.	1.3	6
102	New ductility parameters from the tensile test. International Journal of Pressure Vessels and Piping, 1994, 57, 331-333.	1.2	5
103	Repair welding of cracked turbine shroud using matching composition consumables. Science and Technology of Welding and Joining, 2005, 10, 110-112.	1.5	5
104	Study of Hot Cracking Behaviour of 14Cr-15Ni-2.5Mo Ti-Modified Fully Austenitic Stainless Steels using Varestraint and Hot Ductility Tests. Welding in the World, Le Soudage Dans Le Monde, 2009, 53, 17-27.	1.3	5
105	Study of Magnetism in Colmonoy-6 (AWS NiCr-C) Deposit on 316LN Stainless Steel. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 170, 133-138.	1.7	5
106	Non-Destructive Characterization of Nickel-Base Hardface Deposit on Austenitic Stainless Steel Through Eddy Current and Magnetic Barkhausen Techniques. Welding in the World, Le Soudage Dans Le Monde, 2012, 56, 59-65.	1.3	5
107	Effect of microstructure and low cycle fatigue deformation on tensile properties of P91 steel. Materialwissenschaft Und Werkstofftechnik, 2020, 51, 1088-1099.	0.5	5
108	Development and Deployment of Welding Technologies for the Indian Sodium-Cooled Fast Reactor and Advanced Ultra-supercritical Thermal Power Programmes. Transactions of the Indian Institute of Metals, 2021, 74, 1035-1053.	0.7	5

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109	Study on fracture transferability from compact type specimen to pipe for 316LN stainless steel. International Journal of Pressure Vessels and Piping, 2021, 192, 104437.	1.2	5
110	Estimation of Hardness in Nickel-Base Hardafacing Deposits on 316LN Stainless Steel by Magnetic Techniques. Welding in the World, Le Soudage Dans Le Monde, 2012, 56, 101-110.	1.3	4
111	Effect of Joining Process on the Accumulation of Creep Deformation and Cavitation Across the Weld Joint of 316L(N) Stainless Steel. Procedia Engineering, 2013, 55, 408-413.	1.2	4
112	Plastic deformation of SS 316LN:Thermo-mechanical and microstructural aspects. Procedia Engineering, 2017, 207, 1785-1790.	1.2	4
113	Design, analysis and experimental validation of Inconel-625 bellows for critical applications. Materials Today: Proceedings, 2021, 39, 1733-1737.	0.9	4
114	Determination of the Geometric Profile and Stress/Strain State in the Necked Region During Inelastic Deformation at Elevated Temperatures Using a Non-Contact Measurement Technique. Journal of Testing and Evaluation, 1996, 24, 161-167.	0.4	4
115	In Situ Repair Welding of Steam Turbine Shroud for Replacing a Cracked Blade. Journal of Materials Engineering and Performance, 2002, 11, 243-249.	1.2	3
116	Weldability study of Ti-Ta-Nb alloy and pure titanium. International Journal of Nuclear Energy Science and Technology, 2005, 1, 246.	0.2	3
117	In-sodium self-welding susceptibility evaluation of chromium-plated 2.25Cr-1Mo steel with Inconel 82 weld metal. International Journal of Nuclear Energy Science and Technology, 2007, 3, 386.	0.2	3
118	The weldability assessment of modified E316-15 stainless steel welding electrodes. International Journal of Nuclear Energy Science and Technology, 2009, 4, 232.	0.2	3
119	Characterisation of microstructure and its effect on the strength and toughness of 17-4PH stainless steel. International Journal of Nuclear Energy Science and Technology, 2009, 4, 355.	0.2	3
120	Self-welding susceptibility of 316LN and alloy D9 stainless steels in high-temperature flowing sodium. International Journal of Nuclear Energy Science and Technology, 2010, 5, 195.	0.2	3
121	Effect of cold-work on self-welding susceptibility of austenitic stainless steel (alloy D9) in high temperature flowing sodium. Journal of Nuclear Materials, 2010, 407, 165-170.	1.3	3
122	Strain dependent constitutive analysis of hot deformation behaviour in 9Crâ€“1Mo ferritic steel. Materials at High Temperatures, 2012, 29, 33-40.	0.5	3
123	Thermal stability, phase transformation characteristics, and thermal properties of T91 steel and welding consumables. Welding in the World, Le Soudage Dans Le Monde, 2016, 60, 963-977.	1.3	3
124	Hot Deformation and Microstructural Characteristics of Nitrogen Enhanced 316L Stainless Steel. Key Engineering Materials, 0, 716, 317-322.	0.4	3
125	Failure analysis of cold worked AISI 301 SS diaphragm of gas pump. Engineering Failure Analysis, 2018, 92, 456-465.	1.8	3
126	Effect of aging on elevated temperature ductile fracture toughness of type 316LN stainless steel/alloy 800 weldment. Science and Technology of Welding and Joining, 1999, 4, 75-79.	1.5	2

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127	In situ weld repair of blade tenon of steam turbine in a power plant. International Journal of Nuclear Energy Science and Technology, 2007, 3, 413.	0.2	2
128	Thermally Activated Deformation of a High-Nitrogen Grade 316LN Stainless Steel under Compressive Loading. Materials Science Forum, 2012, 710, 477-482.	0.3	2
129	An assessment of residual stresses on 316LN SS machined plates by hole-drilling strain-gage method. International Journal of Materials and Product Technology, 2012, 43, 134.	0.1	2
130	Formation of annular austenitic ring between outer ferrite layer and solid globule in a semi-solid processed SS 304L. Materials Letters, 2014, 135, 127-130.	1.3	2
131	An experience with in-service fabrication and inspection of austenitic stainless steel piping in high temperature sodium system. Nuclear Engineering and Design, 2015, 284, 300-307.	0.8	2
132	Irradiation in BCC materials: Defect-induced changes of the effective dislocation mobility and their relation with the dose-dependent fracture response. Progress in Nuclear Energy, 2021, 141, 103926.	1.3	2
133	Estimation of resistance to ductile fracture of weldments at ambient and elevated temperatures from tensile tests. International Journal of Pressure Vessels and Piping, 1998, 75, 489-498.	1.2	1
134	Development of process for aluminising nickel alloy 718 strips for tube bundle support structures in liquid sodiumâ€“water steam generators. Materials Science and Technology, 2011, 27, 494-499.	0.8	1
135	Design and development of high-temperature tribometer for material testing in liquid sodium environment. International Journal of Nuclear Energy Science and Technology, 2016, 10, 276.	0.2	1
136	Assessing the Co-Deformability of a Nickel-Based Superalloy-304L Stainless Steel Preform Manufactured through Laser Additive Manufacturing. Journal of Materials Engineering and Performance, 2021, 30, 6667-6672.	1.2	1
137	Comparison between RCC-MR and ASME section-III/NH for creep-fatigue design of bellows. International Journal of Nuclear Energy Science and Technology, 2018, 12, 331.	0.2	1
138	Brittle Fracture Model Parameter Estimation for Irradiated BCC Material through Dislocation Based Crystal Plasticity Model. Frattura Ed Integrita Strutturale, 2019, 13, 319-330.	0.5	1
139	Numerical and experimental estimation of creep-fatigue life of Inconel 625 bellows at 570Â°C. International Journal of Nuclear Energy Science and Technology, 2020, 14, 252.	0.2	1
140	Welding Processes and Technology for Stainless Steels. Indian Welding Journal, 2002, 35, 24.	0.0	0
141	Design, development and experiential validation of large stroke welded disk bellows for nuclear industry. International Journal of Design Engineering, 2018, 8, 57.	0.3	0
142	Manufacturing tolerances of the bellows for nuclear applications: case study. International Journal of Product Development, 2020, 24, 283.	0.2	0