

# Arun Kumar Bhaduri

## List of Publications by Year in descending order

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142  
papers

3,551  
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126708

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168136

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144  
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144  
docs citations

144  
times ranked

2188  
citing authors

#	ARTICLE	IF	CITATIONS
1	Design, analysis and experimental validation of Inconel-625 bellows for critical applications. <i>Materials Today: Proceedings</i> , 2021, 39, 1733-1737.	0.9	4
2	Development and Deployment of Welding Technologies for the Indian Sodium-Cooled Fast Reactor and Advanced Ultra-supercritical Thermal Power Programmes. <i>Transactions of the Indian Institute of Metals</i> , 2021, 74, 1035-1053.	0.7	5
3	Assessing the Co-Deformability of a Nickel-Based Superalloy-304L Stainless Steel Preform Manufactured through Laser Additive Manufacturing. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 6667-6672.	1.2	1
4	Relative effect of B and N concentrations on the microstructural stability and mechanical properties of modified 9Cr-1Mo steel. <i>Journal of Alloys and Compounds</i> , 2021, 867, 158971.	2.8	10
5	Study on fracture transferability from compact type specimen to pipe for 316LN stainless steel. <i>International Journal of Pressure Vessels and Piping</i> , 2021, 192, 104437.	1.2	5
6	Irradiation in BCC materials: Defect-induced changes of the effective dislocation mobility and their relation with the dose-dependent fracture response. <i>Progress in Nuclear Energy</i> , 2021, 141, 103926.	1.3	2
7	Effect of change in microstructures due to simulation temperatures on the low cycle fatigue behavior of P91 steel. <i>International Journal of Fatigue</i> , 2020, 140, 105847.	2.8	12
8	Effect of microstructure and low cycle fatigue deformation on tensile properties of P91 steel. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2020, 51, 1088-1099.	0.5	5
9	Numerical and experimental estimation of creep-fatigue life of Inconel 625 bellows at 570°C. <i>International Journal of Nuclear Energy Science and Technology</i> , 2020, 14, 252.	0.2	1
10	Manufacturing tolerances of the bellows for nuclear applications: case study. <i>International Journal of Product Development</i> , 2020, 24, 283.	0.2	0
11	Evaluation of fracture resistance of AISI type 316LN stainless steel base and welded pipes with circumferential through-wall crack. <i>International Journal of Pressure Vessels and Piping</i> , 2019, 178, 104008.	1.2	7
12	Design and analysis of formed bellows for nuclear applications- Case study. <i>Procedia Structural Integrity</i> , 2019, 14, 855-863.	0.3	8
13	Dependency of rate sensitive DRX behaviour on interstitial content of a Fe-Cr-Ni-Mo alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 743, 148-158.	2.6	19
14	Brittle Fracture Model Parameter Estimation for Irradiated BCC Material through Dislocation Based Crystal Plasticity Model. <i>Frattura Ed Integrita Strutturale</i> , 2019, 13, 319-330.	0.5	1
15	Role of hierarchical martensitic microstructure on localized deformation and fracture of 9Cr-1Mo steel under impact loading at different temperatures. <i>International Journal of Plasticity</i> , 2018, 104, 104-133.	4.1	53
16	A micro-mechanism to explain the post-DRX grain growth at temperatures > 0.8T <sub>m</sub> . <i>Materials Characterization</i> , 2018, 136, 100-110.	1.9	14
17	Effect of thermal aging on microstructure, hardness, tensile and impact properties of Alloy 617. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 710, 47-56.	2.6	28
18	Failure analysis of cold worked AISI 301 SS diaphragm of gas pump. <i>Engineering Failure Analysis</i> , 2018, 92, 456-465.	1.8	3

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19	Influence of nitrogen on kinetics of dynamic recrystallization in Fe-Cr-Ni-Mo steel. <i>Vacuum</i> , 2018, 156, 20-29.	1.6	39
20	Studies on creep-fatigue interaction behaviour of Alloy 617M. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 730, 16-23.	2.6	34
21	Comparison between RCC-MR and ASME section-III/NH for creep-fatigue design of bellows. <i>International Journal of Nuclear Energy Science and Technology</i> , 2018, 12, 331.	0.2	1
22	Design, development and experiential validation of large stroke welded disk bellows for nuclear industry. <i>International Journal of Design Engineering</i> , 2018, 8, 57.	0.3	0
23	Long term creep-fatigue interaction studies on India-specific reduced activation ferritic-martensitic (IN-RAFM) steel. <i>International Journal of Fatigue</i> , 2017, 98, 259-268.	2.8	17
24	Occurrence of dynamic strain aging in Alloy 617M under low cycle fatigue loading. <i>International Journal of Fatigue</i> , 2017, 100, 12-20.	2.8	39
25	Optimization of hybrid laser “TIG welding of 316LN steel using response surface methodology (RSM). <i>Optics and Lasers in Engineering</i> , 2017, 94, 27-36.	2.0	62
26	Comparative assessment of remnant tensile properties of modified 9Cr-1Mo steel under prior low cycle fatigue and creep-fatigue interaction loading. <i>International Journal of Fatigue</i> , 2017, 103, 342-352.	2.8	37
27	Residual stress measurement round robin on an electron beam welded joint between austenitic stainless steel 316L(N) and ferritic steel P91. <i>International Journal of Pressure Vessels and Piping</i> , 2017, 154, 41-57.	1.2	45
28	Development of fast breeder reactor technology in India. <i>Progress in Nuclear Energy</i> , 2017, 101, 19-42.	1.3	43
29	Short Communication on “Self-welding susceptibility of NiCr-B hardfaced coating with and without NiCr-B coating on 316LN stainless steel in flowing sodium at elevated temperature”. <i>Journal of Nuclear Materials</i> , 2017, 484, 141-147.	1.3	10
30	Friction and wear behaviour of Ni-Cr-B hardface coating on 316LN stainless steel in liquid sodium at elevated temperature. <i>Journal of Nuclear Materials</i> , 2017, 495, 431-437.	1.3	23
31	Assessing the Irradiation Defect Induced Changes using Dislocation Based Crystal Plasticity Model for BCC Materials. <i>Procedia Structural Integrity</i> , 2017, 5, 294-301.	0.3	8
32	Status of India-specific Reduced Activation Ferritic-Martensitic steel and fabrication technologies development for LLCB TBM. <i>Fusion Engineering and Design</i> , 2017, 125, 263-268.	1.0	16
33	Plastic deformation of SS 316LN:Thermo-mechanical and microstructural aspects. <i>Procedia Engineering</i> , 2017, 207, 1785-1790.	1.2	4
34	Thermal stability, phase transformation characteristics, and thermal properties of T91 steel and welding consumables. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2016, 60, 963-977.	1.3	3
35	Advanced materials for structural components of Indian sodium-cooled fast reactors. <i>International Journal of Pressure Vessels and Piping</i> , 2016, 139-140, 123-136.	1.2	27
36	Development of IN-RAFM steel and fabrication technologies for Indian TBM. <i>Fusion Engineering and Design</i> , 2016, 109-111, 1422-1431.	1.0	19

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37	Study of fatigue crack growth in RAFM steel using acoustic emission technique. Journal of Constructional Steel Research, 2016, 126, 107-116.	1.7	27
38	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
39	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
40	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
41	Study of creep crack growth in a modified 9Cr-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
42	Development of Improved Materials for Structural Components of Sodium-Cooled Fast Reactors. Procedia Engineering, 2015, 130, 598-608.	1.2	9
43	Study of magnetism in Ni-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
44	Effect of deformation temperature on the ductile-brittle transition behavior of a modified 9Cr-1Mo steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 630, 58-70.	2.6	48
45	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
46	Dynamic fracture behaviour of thermo-mechanically processed modified 9Cr-1Mo steel. Engineering Fracture Mechanics, 2015, 149, 74-88.	2.0	10
47	Study on tempering behaviour of AISI 410 stainless steel. Materials Characterization, 2015, 100, 81-87.	1.9	64
48	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
49	Effect of Heat Treatment on Ductile-Brittle Transition Behaviour of 9Cr-1Mo Steel. Procedia Engineering, 2014, 86, 287-294.	1.2	19
50	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
51	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
52	Effect of normalization temperatures on ductile-brittle transition temperature of a modified 9Cr-1Mo steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 618, 219-231.	2.6	59
53	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
54	Delta ferrite in the weld metal of reduced activation ferritic martensitic steel. Journal of Nuclear Materials, 2014, 455, 343-348.	1.3	65

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55	Formation of annular austenitic ring between outer ferrite layer and solid globule in a semi-solid processed SS 304L. <i>Materials Letters</i> , 2014, 135, 127-130.	1.3	2
56	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. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2014, 58, 389-395.	1.3	21
57	Mechanical properties of 9Cr <sup>1</sup> W reduced activation ferritic martensitic steel weldment prepared by electron beam welding process. <i>Fusion Engineering and Design</i> , 2014, 89, 2672-2678.	1.0	21
58	Study on microstructure and wear properties of different nickel base hardfacing alloys deposited on austenitic stainless steel. <i>Surface and Coatings Technology</i> , 2014, 244, 180-188.	2.2	52
59	New insights into the relationship between dynamic softening phenomena and efficiency of hot working domains of a nitrogen enhanced 316L(N) stainless steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 598, 368-375.	2.6	74
60	Mechanical properties of similar and dissimilar weldments of RAFMS and AISI 316L (N) SS prepared by electron beam welding process. <i>Fusion Engineering and Design</i> , 2014, 89, 1605-1610.	1.0	24
61	Fatigue crack growth behavior of RAFM steel in Paris and threshold regimes at different temperatures. <i>Nuclear Engineering and Design</i> , 2014, 269, 103-107.	0.8	6
62	Influence of Coincidence Site Lattice Boundary on Creep Resistance of P91 Steel Weldments. <i>Procedia Engineering</i> , 2014, 86, 80-87.	1.2	7
63	Fatigue Crack Growth Behavior of 316LN Stainless Steel with Different Nitrogen Contents. <i>Procedia Engineering</i> , 2013, 55, 716-721.	1.2	10
64	Effect of Joining Process on the Accumulation of Creep Deformation and Cavitation Across the Weld Joint of 316L(N) Stainless Steel. <i>Procedia Engineering</i> , 2013, 55, 408-413.	1.2	4
65	Fatigue Crack Growth Characterisation of RAFM Steel using Acoustic Emission Technique. <i>Procedia Engineering</i> , 2013, 55, 722-726.	1.2	7
66	Effect of Boron on Creep Behaviour of Inter-Critically Annealed Modified 9Cr-1Mo Steel. <i>Procedia Engineering</i> , 2013, 55, 402-407.	1.2	7
67	Resisting stress for constitutive analysis of hot deformation in modified 9Cr <sup>1</sup> Mo (P91) steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 560, 170-177.	2.6	7
68	Nitrogen Enhanced 316LN Austenitic Stainless Steel for Sodium Cooled Fast Reactors. <i>Advanced Materials Research</i> , 2013, 794, 670-680.	0.3	9
69	Strain dependent constitutive analysis of hot deformation behaviour in 9Cr <sup>1</sup> Mo ferritic steel. <i>Materials at High Temperatures</i> , 2012, 29, 33-40.	0.5	3
70	Thermally Activated Deformation of a High-Nitrogen Grade 316LN Stainless Steel under Compressive Loading. <i>Materials Science Forum</i> , 2012, 710, 477-482.	0.3	2
71	An assessment of residual stresses on 316LN SS machined plates by hole-drilling strain-gage method. <i>International Journal of Materials and Product Technology</i> , 2012, 43, 134.	0.1	2
72	Optimization of processing parameters based on high temperature flow behavior and microstructural evolution of a nitrogen enhanced 316L(N) stainless steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 552, 236-244.	2.6	45

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73	Understanding room temperature deformation behavior through indentation studies on modified 9Cr-1Mo steel weldments. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 552, 419-426.	2.6	7
74	Non-Destructive Characterization of Nickel-Base Hardface Deposit on Austenitic Stainless Steel Through Eddy Current and Magnetic Barkhausen Techniques. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2012, 56, 59-65.	1.3	5
75	Improvement in Creep Resistance of Modified 9Cr-1Mo Steel Weldment by Boron Addition. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2012, 56, 10-17.	1.3	8
76	Estimation of Hardness in Nickel-Base Hardfacing Deposits on 316LN Stainless Steel by Magnetic Techniques. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2012, 56, 101-110.	1.3	4
77	Investigation on influence of dynamic strain ageing on fatigue crack growth behaviour of modified 9Cr-1Mo steel. <i>International Journal of Fatigue</i> , 2012, 43, 242-245.	2.8	25
78	Influence of microstructural inhomogeneities on the fracture toughness of modified 9Cr-1Mo steel at 298-823K. <i>Journal of Nuclear Materials</i> , 2012, 421, 15-21.	1.3	10
79	Development of process for aluminising nickel alloy 718 strips for tube bundle support structures in liquid sodium-water steam generators. <i>Materials Science and Technology</i> , 2011, 27, 494-499.	0.8	1
80	Real-Time Monitoring of Weld Pool during GTAW using Infra-Red Thermography and analysis of Infra-Red thermal images. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2011, 55, 83-89.	1.3	34
81	Hardfacing of austenitic stainless steel with nickel-base NiCr alloy. <i>International Journal of Microstructure and Materials Properties</i> , 2011, 6, 40.	0.1	6
82	Flow behavior and microstructural evolution during hot deformation of AISI Type 316 L(N) austenitic stainless steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 8565-8572.	2.6	78
83	Improving 410NiMo weld metal toughness by PWHT. <i>Journal of Materials Processing Technology</i> , 2011, 211, 2032-2038.	3.1	26
84	Effect of boron addition on pitting corrosion resistance of modified 9Cr-1Mo steel: Application of electrochemical noise. <i>Materials Chemistry and Physics</i> , 2011, 130, 536-547.	2.0	18
85	Prediction of high temperature flow stress in 9Cr-1Mo ferritic steel during hot compression. <i>International Journal of Pressure Vessels and Piping</i> , 2011, 88, 501-506.	1.2	33
86	Creep rupture strength of activated-TIG welded 316L(N) stainless steel. <i>Journal of Nuclear Materials</i> , 2011, 413, 36-40.	1.3	18
87	Strain dependent rate equation to predict elevated temperature flow behavior of modified 9Cr-1Mo (P91) steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 1071-1077.	2.6	59
88	Development of filler wires for welding of reduced activation ferritic martensitic steel for India's test blanket module of ITER. <i>Fusion Engineering and Design</i> , 2011, 86, 446-451.	1.0	18
89	A study on influence of heat input variation on microstructure of reduced activation ferritic martensitic steel weld metal produced by GTAW process. <i>Fusion Engineering and Design</i> , 2011, 86, 192-197.	1.0	80
90	Analysis and mathematical modelling of elevated temperature flow behaviour of austenitic stainless steels. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 1937-1943.	2.6	80

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91	A new relationship between the stress multipliers of Garofalo equation for constitutive analysis of hot deformation in modified 9Cr-1Mo (P91) steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 6066-6071.	2.6	64
92	Comparison of creep rupture behaviour of type 316L(N) austenitic stainless steel joints welded by TIG and activated TIG welding processes. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 6971-6980.	2.6	101
93	Optimization of hot working parameters for thermo-mechanical processing of modified 9Cr-1Mo (P91) steel employing dynamic materials model. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 5204-5211.	2.6	87
94	Mechanical Behaviour of SS 316 (N) Weld after Long Term Exposure to Service Temperatures. <i>Procedia Engineering</i> , 2011, 10, 2725-2730.	1.2	18
95	Study of Deformation Behavior of Simulated Inter-Critical Heat-Affected Zones of Modified 9Cr-1Mo Steel. <i>Materials and Manufacturing Processes</i> , 2011, 26, 62-65.	2.7	6
96	Friction Welding of Titanium to 304L Stainless Steel Using Interlayers. <i>Praktische Metallographie/Practical Metallography</i> , 2011, 48, 188-207.	0.1	13
97	Self-welding susceptibility of 316LN and alloy D9 stainless steels in high-temperature flowing sodium. <i>International Journal of Nuclear Energy Science and Technology</i> , 2010, 5, 195.	0.2	3
98	Effect of cold-work on self-welding susceptibility of austenitic stainless steel (alloy D9) in high temperature flowing sodium. <i>Journal of Nuclear Materials</i> , 2010, 407, 165-170.	1.3	3
99	Study of Magnetism in Colmonoy-6 (AWS NiCr-C) Deposit on 316LN Stainless Steel. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2010, 170, 133-138.	1.7	5
100	On the anomalous temperature dependency of fatigue crack growth of SS 316(N) weld. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 5122-5129.	2.6	19
101	Progress in the development of reduced activation ferritic-martensitic steels and fabrication technologies in India. <i>Fusion Engineering and Design</i> , 2010, 85, 1460-1468.	1.0	46
102	High temperature wear and friction behaviour of 15Cr-15Ni-2Mo titanium-modified austenitic stainless steel in liquid sodium. <i>Wear</i> , 2010, 270, 1-4.	1.5	18
103	Study of Hot Cracking Behaviour of Nitrogen-Enhanced Austenitic Stainless Steels using Varcstraint and Hot Ductility Tests. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2010, 54, R322-R332.	1.3	9
104	The weldability assessment of modified E316-15 stainless steel welding electrodes. <i>International Journal of Nuclear Energy Science and Technology</i> , 2009, 4, 232.	0.2	3
105	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. <i>Journal of Materials Processing Technology</i> , 2009, 209, 1428-1435.	3.1	40
106	A thermo-viscoplastic constitutive model to predict elevated-temperature flow behaviour in a titanium-modified austenitic stainless steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 526, 1-6.	2.6	157
107	Studies on twinning and grain boundary character distribution during anomalous grain growth in a Ti-modified austenitic stainless steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 515, 134-140.	2.6	55
108	Joining of titanium to 304L stainless steel by friction welding. <i>Journal of Materials Processing Technology</i> , 2009, 209, 5862-5870.	3.1	169



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109	A comparative study on Johnson Cook, modified Zerilli-Armstrong and Arrhenius-type constitutive models to predict elevated temperature flow behaviour in modified 9Cr-1Mo steel. Computational Materials Science, 2009, 47, 568-576.	1.4	330
110	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
111	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
112	Effect of prior microstructure on microstructure and mechanical properties of modified 9Cr-1Mo steel weld joints. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 477, 185-192.	2.6	42
113	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
114	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
115	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
116	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
117	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
118	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
119	Weldability study of Ti-Ta-Nb alloy and pure titanium. International Journal of Nuclear Energy Science and Technology, 2005, 1, 246.	0.2	3
120	Failure analysis of a pinion. Engineering Failure Analysis, 2005, 12, 287-298.	1.8	16
121	Repair welding of cracked turbine shroud using matching composition consumables. Science and Technology of Welding and Joining, 2005, 10, 110-112.	1.5	5
122	Selection of hardfacing material for components of the Indian Prototype Fast Breeder Reactor. Journal of Nuclear Materials, 2004, 334, 109-114.	1.3	63
123	Fatigue failure of a fillet welded nozzle joint. Engineering Failure Analysis, 2003, 10, 667-674.	1.8	11
124	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
125	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
126	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



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127	Welding Processes and Technology for Stainless Steels. Indian Welding Journal, 2002, 35, 24.	0.0	0
128	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
129	Evaluation of repair welding procedures for 2.25Cr-1Mo and 9Cr-1Mo steel welds. Science and Technology of Welding and Joining, 2001, 6, 89-93.	1.5	24
130	Optimised post-weld heat treatment procedures and heat input for welding 17-4PH stainless steel. Science and Technology of Welding and Joining, 1999, 4, 295-301.	1.5	16
131	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
132	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
133	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
134	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
135	Transition metal joints for steam generators—An overview. International Journal of Pressure Vessels and Piping, 1994, 58, 251-265.	1.2	98
136	New ductility parameters from the tensile test. International Journal of Pressure Vessels and Piping, 1994, 57, 331-333.	1.2	5
137	New toughness parameters from the tensile test — A first report. Journal of Nuclear Materials, 1993, 200, 70-77.	1.3	11
138	Performance of a trimetallic transition joint. Materials at High Temperatures, 1992, 10, 45-50.	0.5	12
139	Effect of ageing on the microstructural stability of cold-worked titanium-modified 15Cr-15Ni-2.5Mo austenitic stainless steel. Journal of Nuclear Materials, 1992, 186, 177-184.	1.3	37
140	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
141	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
142	Hot Deformation and Microstructural Characteristics of Nitrogen Enhanced 316L Stainless Steel. Key Engineering Materials, 0, 716, 317-322.	0.4	3