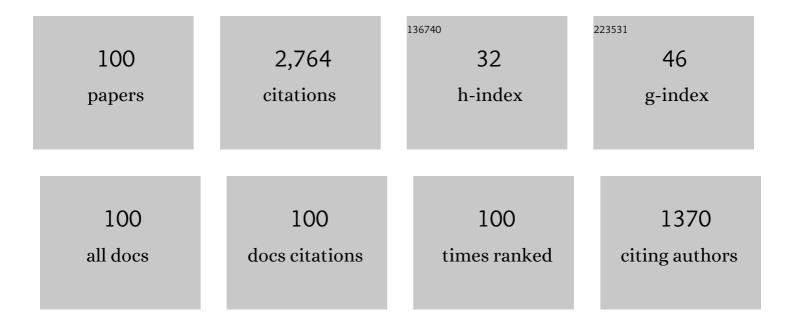
Mathew

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/11392904/publications.pdf Version: 2024-02-01



Μλτήξιω

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Nuclear energy: A pathway towards mitigation of global warming. Progress in Nuclear Energy, 2022, 143, 104080. | 1.3 | 89 |
| 2 | Effect of Laves phase on the creep rupture properties of P92 steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 668, 215-223. | 2.6 | 50 |
| 3 | Generation of Constant Life Diagram under Elevated Temperature Ratcheting of 316LN Stainless Steel. High Temperature Materials and Processes, 2016, 35, 361-368. | 0.6 | 6 |
| 4 | Impression creep deformation behaviour of 316LN stainless steel. Materials at High Temperatures, 2015, 32, 583-591. | 0.5 | 5 |
| 5 | 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 |
| 6 | Applicability of Voce equation for tensile flow and work hardening behaviour of P92 ferritic steel. International Journal of Pressure Vessels and Piping, 2015, 132-133, 1-9. | 1.2 | 40 |
| 7 | Effect of tempering temperature on the stress rupture properties of Grade 92 steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 639, 431-438. | 2.6 | 19 |
| 8 | Investigation on mechanical properties of P92 steel using ball indentation technique. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 624, 92-101. | 2.6 | 17 |
| 9 | Integrity Assessment of Grade 92 Welded Joint under Creep Condition. Procedia Engineering, 2014, 86, 215-222. | 1.2 | 2 |
| 10 | Tensile and Creep Behaviour of Modified 9Cr-1Mo Steel Cladding Tube for Fast Reactor Using Metallic Fuel. Procedia Engineering, 2014, 86, 71-79. | 1.2 | 11 |
| 11 | Creep Life Prediction of Modified 9Cr-1Mo Steel under Multiaxial State of Stress. Procedia Engineering, 2014, 86, 150-157. | 1.2 | 17 |
| 12 | Influence of Nitrogen Content on the Evolution of Creep Damage in 316 LN Stainless Steel. Procedia Engineering, 2014, 86, 58-65. | 1.2 | 7 |
| 13 | Cyclic softening as a parameter for prediction of remnant creep rupture life of a Indian reduced activation ferritic–martensitic (IN-RAFM) steel subjected to fatigue exposures. Fusion Engineering and Design, 2014, 89, 3159-3163. | 1.0 | 7 |
| 14 | Influence of thermo-mechanical treatment on the tensile properties of a modified 14Cr–15Ni stainless steel. Journal of Nuclear Materials, 2014, 453, 188-195. | 1.3 | 10 |
| 15 | Design of creep machine and creep specimen chamber for carrying out creep tests in flowing liquid sodium. Nuclear Engineering and Design, 2014, 267, 1-9. | 0.8 | 12 |
| 16 | Microstructural evolution during creep of 316LN stainless steel multi-pass weld joints. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 607, 138-144. | 2.6 | 31 |
| 17 | Creep rupture behavior of 9Cr–1.8W–0.5Mo–VNb (ASME grade 92) ferritic steel weld joint. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 591, 111-120. | 2.6 | 100 |
| 18 | Tensile properties and flow behavior analysis of modified 9Cr–1Mo steel clad tube material. Journal of Nuclear Materials, 2014, 454, 37-45. | 1.3 | 7 |

Mathew

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Biaxial creep deformation behavior of Fe–14Cr–15Ni–Ti modified austenitic stainless steel fuel cladding tube for sodium cooled fast reactor. Nuclear Engineering and Design, 2014, 275, 17-22. | 0.8 | 8 |
| 20 | Thermomechanical Fatigue Behavior of a Reduced Activation Ferritic-Martensitic Steel. Procedia Engineering, 2014, 86, 88-94. | 1.2 | 6 |
| 21 | A Study on the Effect of Tempering Temperature on Tensile Properties of P92 Steel by Automated Ball Indentation Technique. Procedia Engineering, 2014, 86, 910-918. | 1.2 | 9 |
| 22 | On the Reliability Assessment of Creep Life for Grade 91 Steel. Procedia Engineering, 2014, 86, 335-341. | 1.2 | 7 |
| 23 | Finite element analysis of effect of triaxial state of stress on creep cavitation and rupture behaviour of 2.25Cr–1Mo steel. International Journal of Mechanical Sciences, 2013, 75, 233-243. | 3.6 | 52 |
| 24 | Influence of temperature and post weld heat treatment on tensile stress–strain and work hardening behaviour of modified 9Cr–1Mo steel. Materials & Design, 2013, 52, 58-66. | 5.1 | 35 |
| 25 | Effect of prior cold work on creep properties of a titanium modified austenitic stainless steel. Journal of Nuclear Materials, 2013, 438, 51-57. | 1.3 | 13 |
| 26 | Application of Impression Creep Technique for Development of Creep Resistant Austenitic Stainless Steel. Procedia Engineering, 2013, 55, 585-590. | 1.2 | 6 |
| 27 | Effect of Prior Cold Work on Creep Rupture and Tensile Properties of 14Cr-15Ni-Ti Stainless Steel. Procedia Engineering, 2013, 55, 78-81. | 1.2 | 5 |
| 28 | Creep and Low Cycle Fatigue Behaviour of Fast Reactor Structural Materials. Procedia Engineering, 2013, 55, 17-26. | 1.2 | 15 |
| 29 | A Comparison of Creep Deformation and Rupture Behaviour of 316L(N) Austenitic Stainless Steel in Flowing Sodium and in Air. Procedia Engineering, 2013, 55, 823-829. | 1.2 | 9 |
| 30 | Influence of dynamic strain aging on the deformation behavior during ratcheting of a 316LN stainless steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 564, 359-368. | 2.6 | 40 |
| 31 | Materials development for fast reactor applications. Nuclear Engineering and Design, 2013, 265, 1175-1180. | 0.8 | 35 |
| 32 | Time dependent design curves for a high nitrogen grade of 316LN stainless steel for fast reactor applications. Nuclear Engineering and Design, 2013, 265, 949-956. | 0.8 | 11 |
| 33 | Finite element analysis of uniaxial and multiaxial state of stress on creep rupture behaviour of 2.25Cr–1Mo steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 563, 68-77. | 2.6 | 46 |
| 34 | Dynamic strain aging behavior of modified 9Cr–1Mo and reduced activation ferritic martensitic steels under low cycle fatigue. Journal of Nuclear Materials, 2013, 435, 207-213. | 1.3 | 40 |
| 35 | Development of India-specific RAFM steel through optimization of tungsten and tantalum contents for better combination of impact, tensile, low cycle fatigue and creep properties. Journal of Nuclear Materials, 2013, 439, 41-50. | 1.3 | 97 |
| 36 | Creep Deformation and Rupture Behaviour of P92 Steel at 923 K. Procedia Engineering, 2013, 55, 64-69. | 1.2 | 53 |

Μάτηεω

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Improvement in Creep Damage Tolerance of 14Cr-15Ni-Ti Modified Stainless Steel by Addition of Minor Elements. Procedia Engineering, 2013, 55, 58-63. | 1.2 | 6 |
| 38 | Effect of tungsten on tensile properties and flow behaviour of RAFM steel. Journal of Nuclear Materials, 2013, 433, 412-418. | 1.3 | 32 |
| 39 | High Temperature Materials for Nuclear Fast Fission and Fusion Reactors and Advanced Fossil Power Plants. Procedia Engineering, 2013, 55, 259-270. | 1.2 | 48 |
| 40 | 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 |
| 41 | Thermomechanical Fatigue Behaviour of a Modified 9Cr-1Mo Ferritic-Martensitic Steel. Procedia Engineering, 2013, 55, 199-203. | 1.2 | 7 |
| 42 | Elevated temperature tensile properties of P9 steel towards ferritic steel wrapper development for sodium cooled fast reactors. Journal of Nuclear Materials, 2013, 443, 242-249. | 1.3 | 3 |
| 43 | Effect of isothermal heat treatment on microstructure and mechanical properties of Reduced Activation Ferritic Martensitic steel. Journal of Nuclear Materials, 2013, 435, 128-136. | 1.3 | 24 |
| 44 | Creep Behaviour of 316L(N) SS in the Presence of Notch. Procedia Engineering, 2013, 55, 534-541. | 1.2 | 10 |
| 45 | Applicability of the one-internal-variable Kocks–Mecking approach for tensile flow and work hardening behaviour of modified 9Cr–1Mo steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 575, 119-126. | 2.6 | 13 |
| 46 | Effect of Notch on Creep Behavior of 316L(N) SS Weld Joint. Procedia Engineering, 2013, 55, 526-533. | 1.2 | 3 |
| 47 | Effect of Nitrogen on Evolution of Dislocation Substructure in 316LN SS During Creep. Procedia Engineering, 2013, 55, 36-40. | 1.2 | 13 |
| 48 | Microstructural Modifications Due to Tungsten and Tantalum in 9Cr Reduced Activation Ferritic Martensitic Steels on Creep Exposure. Procedia Engineering, 2013, 55, 295-299. | 1.2 | 17 |
| 49 | Notch creep rupture strength of 316LN SS and its variation with nitrogen content. Nuclear Engineering and Design, 2013, 254, 179-184. | 0.8 | 19 |
| 50 | Nitrogen Enhanced 316LN Austenitic Stainless Steel for Sodium Cooled Fast Reactors. Advanced Materials Research, 2013, 794, 670-680. | 0.3 | 9 |
| 51 | Kocks–Mecking approach to tensile work hardening behaviour of normalised and tempered and post-weld heat-treated modified 9Cr–1Mo steel. Materials at High Temperatures, 2013, 30, 295-305. | 0.5 | 7 |
| 52 | Influence of re-solutionising treatment on the cyclic deformation behaviour of a service-exposed Inconel [®] 625 superalloy. Materials at High Temperatures, 2012, 29, 49-53. | 0.5 | 8 |
| 53 | Effect of mean stress and stress amplitude on the ratcheting behaviour of 316LN stainless steel under dynamic strain aging regime. Materials at High Temperatures, 2012, 29, 351-358. | 0.5 | 22 |
| 54 | Long-term creep-rupture strength prediction for modified 9Cr–1Mo ferritic steel and type 316L(N) austenitic stainless steel. Materials at High Temperatures, 2012, 29, 41-48. | 0.5 | 18 |

Mathew

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Evaluation of the effect of nitrogen on creep properties of 316LN stainless steel from impression creep tests. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 552, 112-118. | 2.6 | 25 |
| 56 | Isothermal and thermomechanical fatigue studies on a modified 9Cr–1Mo ferritic martensitic steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 554, 95-104. | 2.6 | 44 |
| 57 | Effect of tungsten and tantalum on the low cycle fatigue behavior of reduced activation ferritic/martensitic steels. Fusion Engineering and Design, 2012, 87, 318-324. | 1.0 | 40 |
| 58 | Effect of microstructure on the critical strain to onset of serrated flow in modified 9Cr–1Mo steel. International Journal of Pressure Vessels and Piping, 2012, 89, 162-169. | 1.2 | 27 |
| 59 | Low cycle fatigue and thermo-mechanical fatigue behavior of modified 9Cr–1Mo ferritic steel at elevated temperatures. Journal of Nuclear Materials, 2012, 420, 23-30. | 1.3 | 49 |
| 60 | Tensile stress–strain and work hardening behaviour of P9 steel for wrapper application in sodium cooled fast reactors. Journal of Nuclear Materials, 2012, 420, 583-590. | 1.3 | 19 |
| 61 | Influence of strain rate and temperature on tensile properties and flow behaviour of a reduced activation ferritic–martensitic steel. Journal of Nuclear Materials, 2012, 424, 116-122. | 1.3 | 32 |
| 62 | Influence of flowing sodium on creep deformation and rupture behaviour of 316L(N) austenitic stainless steel. Journal of Nuclear Materials, 2012, 427, 174-180. | 1.3 | 18 |
| 63 | Creep deformation and rupture behaviour of 9Cr–1W–0.2V–0.06Ta Reduced Activation Ferritic–Martensitic steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 533, 17-25. | 2.6 | 57 |
| 64 | Improving creep strength of 316L stainless steel by alloying with nitrogen. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 535, 76-83. | 2.6 | 107 |
| 65 | Influence of strain rate and temperature on tensile stress–strain and work hardening behaviour of 9Cr–1Mo ferritic steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 538, 110-117. | 2.6 | 52 |
| 66 | Development of Structural and Steam Generator Materials for Sodium Cooled Fast Reactors. Energy Procedia, 2011, 7, 250-256. | 1.8 | 19 |
| 67 | Creep–fatigue-oxidation interaction in Grade 91 steel weld joints for high temperature applications. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 8428-8437. | 2.6 | 40 |
| 68 | Influence of dynamic sodium environment on the creep–fatigue behaviour of Modified 9Cr–1Mo ferritic–martensitic steel. Nuclear Engineering and Design, 2011, 241, 2807-2812. | 0.8 | 19 |
| 69 | Tensile and creep properties of reduced activation ferritic–martensitic steel for fusion energy application. Journal of Nuclear Materials, 2011, 417, 77-80. | 1.3 | 29 |
| 70 | Effect of titanium on the creep deformation behaviour of 14Cr–15Ni–Ti stainless steel. Journal of Nuclear Materials, 2011, 409, 214-220. | 1.3 | 25 |
| 71 | Creep rupture strength of activated-TIG welded 316L(N) stainless steel. Journal of Nuclear Materials, 2011, 413, 36-40. | 1.3 | 18 |
| 72 | Tensile flow and work hardening behaviour of 9Cr–1Mo ferritic steel in the frame work of Voce relationship. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 6589-6595. | 2.6 | 43 |

Μάτηεω

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 73 | 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 |
| 74 | Finite element analysis of type IV cracking in 2.25Cr–1Mo steel weldment based on micro-mechanistic approach. Philosophical Magazine, 2011, 91, 3128-3154. | 0.7 | 33 |
| 75 | Influence of strain rate and temperature on tensile properties of 9Cr–1Mo ferritic steel. Materials at High Temperatures, 2011, 28, 155-161. | 0.5 | 25 |
| 76 | Creep behaviour of 14Cr–15Ni–Ti stainless steel at 923K. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 5167-5174. | 2.6 | 17 |
| 77 | An anomalous cyclic stress evolution in reduced activation ferritic/martensitic steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 6449-6453. | 2.6 | 12 |
| 78 | High temperature design curves for high nitrogen grades of 316LN stainless steel. Nuclear Engineering and Design, 2010, 240, 1363-1370. | 0.8 | 47 |
| 79 | Mechanical behaviour of stainless steel, ferritic steel welds and weld joints. , 2009, , 153-184. | | 1 |
| 80 | Thermal creep properties of alloy D9 stainless steel and 316 stainless steel fuel clad tubes. International Journal of Pressure Vessels and Piping, 2008, 85, 866-870. | 1.2 | 63 |
| 81 | Microstructural changes in alloy 625 during high temperature creep. Materials Characterization, 2008, 59, 508-513. | 1.9 | 77 |
| 82 | The effect of strain rate and temperature on the elevated temperature tensile flow behavior of service-exposed 2.25Cr-1Mo steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 465, 109-115. | 2.6 | 10 |
| 83 | An assessment of creep strength reduction factors for 316L(N) SS welds. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 456, 28-34. | 2.6 | 16 |
| 84 | Nondestructive monitoring of structural materials using automated ball indentation (ABI) technique. Nuclear Engineering and Design, 2004, 228, 81-96. | 0.8 | 27 |
| 85 | Analysis of elevated temperature flow and work hardening behaviour of service-exposed 2.25Cr-1Mo steel using Voce equation. International Journal of Pressure Vessels and Piping, 2004, 81, 297-301. | 1.2 | 27 |
| 86 | Creep properties of service-exposed Alloy 625 after re-solution annealing treatment. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 372, 327-333. | 2.6 | 44 |
| 87 | Assessing microstructural changes in alloy 625 using ultrasonic waves and correlation with tensile properties. Scripta Materialia, 2001, 45, 1025-1030. | 2.6 | 23 |
| 88 | Recovery of Creep Properties of Alloy 625 After Long Term Service. Key Engineering Materials, 2000, 171-174, 537-544. | 0.4 | 3 |
| 89 | Creep deformation and fracture behaviour of a nitrogen-bearing type 316 stainless steel weld metal. Journal of Nuclear Materials, 1999, 273, 257-264. | 1.3 | 29 |
| 90 | Ball indentation studies on the effect of aging on mechanical behavior of alloy 625. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1999, 264, 159-166. | 2.6 | 55 |

Μάτηεω

| # | Article | IF | CITATIONS |
|-----|--|-----|-----------|
| 91 | Low temperature aging embrittlement of CF-8 stainless steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1999, 269, 186-196. | 2.6 | 57 |
| 92 | Characterization of gradients in mechanical properties of SA-533B steel welds using ball indentation. International Journal of Pressure Vessels and Piping, 1999, 76, 361-369. | 1.2 | 49 |
| 93 | Nondestructive determination of tensile properties and fracture toughness of cold worked A36 steel. International Journal of Pressure Vessels and Piping, 1998, 75, 831-840. | 1.2 | 77 |
| 94 | A comparative study of creep rupture behaviour of modified 316L(N) base metal and weldment in air and liquid sodium environments. International Journal of Pressure Vessels and Piping, 1997, 72, 111-118. | 1.2 | 12 |
| 95 | Prediction of creep parameters of type 316 stainless steel under service conditions using the ï€-projection concept. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1992, 159, 199-204. | 2.6 | 18 |
| 96 | Influence of carbon and nitrogen on the creep properties of type 316 stainless steel at 873 K. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1991, 148, 253-260. | 2.6 | 57 |
| 97 | 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 |
| 98 | The Effect of Nitrogen Alloying on the Low Cycle Fatigue and Creep-Fatigue Interaction Behavior of 316LN Stainless Steel. Advanced Materials Research, 0, 794, 441-448. | 0.3 | 6 |
| 99 | 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 |
| 100 | Low Cycle Fatigue and Creep-Fatigue Interaction Behaviour of Reduced Activation Ferritic Martensitic (RAFM) Steels with Varying W and Ta Contents. Advanced Materials Research, 0, 891-892, 383-388. | 0.3 | 1 |