

Kartik Prasad

List of Publications by Year in descending order

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445
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| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Crystal plasticity-based homogenized models of transformed β^2 colonies in titanium alloys. Multiscale and Multidisciplinary Modeling, Experiments and Design, 2022, 5, 119-134. | 0.9 | 3 |
| 2 | Homogenization of Transformed β^2 Colony of a Titanium Alloy Using CPFEM. Lecture Notes in Mechanical Engineering, 2022, , 93-102. | 0.3 | 0 |
| 3 | Crystal plasticity modeling of a titanium alloy under thermo-mechanical fatigue. Mechanics Research Communications, 2021, 111, 103647. | 1.0 | 11 |
| 4 | The effect of laser scanning strategies on the microstructure, texture and crystallography of grains exhibiting hot cracks in additively manufactured Hastelloy X. Mechanics of Materials, 2021, 157, 103816. | 1.7 | 23 |
| 5 | Synchrotron diffraction characterization of dislocation density in additively manufactured IN 718 superalloy. Materials Characterization, 2021, 179, 111379. | 1.9 | 19 |
| 6 | The possible role of nano sized precipitates on the mechanical properties of additively manufactured IN 718 superalloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 826, 141972. | 2.6 | 5 |
| 7 | On the probabilistic assessment of variability in fatigue life in a near β titanium alloy Timetal 834: Crystallography of fatigue crack initiating facets. Acta Materialia, 2021, 218, 117214. | 3.8 | 13 |
| 8 | Transmission X ray diffraction characterization of deformation induced martensite in 301 and 304 stainless steels rolled at 77K: Role of grain size. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 794, 139984. | 2.6 | 10 |
| 9 | On the Dominance of Creep-Fatigue Interaction Over Oxidation in Thermomechanical Fatigue Behavior of a Diffusion Aluminide Coated Near β Titanium Alloy. , 2020, 5, 759-768. | | 0 |
| 10 | Low-Cycle-Fatigue (LCF) behavior and cyclic plasticity modeling of E250A mild steel. Structures, 2019, 20, 594-606. | 1.7 | 18 |
| 11 | Strain controlled isothermal low cycle fatigue life, deformation and fracture characteristics of Superni 263 superalloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 760, 296-315. | 2.6 | 6 |
| 12 | Probabilistic prediction of minimum fatigue life behaviour in β titanium alloys. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 674-685. | 1.7 | 11 |
| 13 | Effects of silicon on characteristics of dynamic strain aging in a near- β titanium alloy. International Journal of Materials Research, 2017, 108, 275-285. | 0.1 | 3 |
| 14 | Isothermal and thermomechanical fatigue behavior of aluminide coated near β titanium alloy. International Journal of Fatigue, 2016, 92, 107-115. | 2.8 | 8 |
| 15 | Effects of $\beta + \beta^2$ phase deformation on microstructure, fatigue and dwell fatigue behavior of a near alpha titanium alloy. International Journal of Fatigue, 2016, 91, 100-109. | 2.8 | 28 |
| 16 | A Critical Assessment of Cyclic Softening and Hardening Behavior in a Near- β Titanium Alloy During Thermomechanical Fatigue. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 4904-4921. | 1.1 | 12 |
| 17 | A comparative assessment of crack closure mechanisms in Timetal 834 near β titanium alloy under isothermal and thermomechanical fatigue loading. Journal of Alloys and Compounds, 2016, 688, 8-11. | 2.8 | 13 |
| 18 | Effects of Crack Closure and Cyclic Deformation on Thermomechanical Fatigue Crack Growth of a Near β Titanium Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 3713-3730. | 1.1 | 9 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Role of shrinkage pores, carbides on cyclic deformation behaviour of conventionally cast nickel base superalloy CM247LC [®] at 870 °C. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 654, 381-389. | 2.6 | 19 |
| 20 | Influence of test temperature on cyclic deformation behavior of a near α titanium alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 662, 373-384. | 2.6 | 10 |
| 21 | Experimental evidence for segregation of interstitial impurities to defects in a near α titanium alloy during dynamic strain aging using energy filtered transmission electron microscopy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 638, 90-96. | 2.6 | 13 |
| 22 | On the occurrence of dynamic strain aging in C-103 Nb based alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 620, 286-292. | 2.6 | 19 |
| 23 | Electron back scattered diffraction characterization of thermomechanical fatigue crack propagation of a near α titanium alloy Timetal 834. Materials & Design, 2015, 65, 297-311. | 5.1 | 18 |
| 24 | Influence of mixed mode I/III loading on dynamic fracture toughness of mild steel at room and low temperatures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 590, 54-59. | 2.6 | 6 |
| 25 | Simultaneous creep-fatigue damage accumulation of forged turbine disc of IN 718 superalloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 572, 1-7. | 2.6 | 24 |
| 26 | Temperature gradients in flat thermomechanical fatigue specimens. Applied Thermal Engineering, 2013, 59, 131-133. | 3.0 | 7 |
| 27 | Fatigue crack growth behaviour of a near α titanium alloy Timetal 834 at 450°C and 600°C. Engineering Fracture Mechanics, 2013, 102, 194-206. | 2.0 | 15 |
| 28 | Fatigue Crack Growth Behaviour of Conventional and Modified IN 718 Superalloys at 650°C. Transactions of the Indian Institute of Metals, 2013, 66, 1-4. | 0.7 | 2 |
| 29 | High temperature low cycle fatigue deformation behaviour of forged IN 718 superalloy turbine disc. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 568, 239-245. | 2.6 | 43 |
| 30 | Effect of Shot Peening on Low Cycle Fatigue Life of Compressor Disc of a Typical Fighter Class Aero-Engine. Procedia Engineering, 2013, 55, 144-148. | 1.2 | 13 |
| 31 | A novel test method to study the simultaneous creep-fatigue interaction. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 551, 293-295. | 2.6 | 6 |
| 32 | Effect of frequency and orientation on fatigue crack growth behavior of forged turbine disc of IN 718 superalloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 544, 83-87. | 2.6 | 6 |
| 33 | Tensile behaviour of boron modified Timetal 834 titanium alloy in the intermediate temperature range 400-500°C. Journal of Alloys and Compounds, 2011, 509, 7361-7367. | 2.8 | 12 |
| 34 | High-temperature low cycle fatigue damage assessment in near alpha IMI-834 titanium alloy. Fatigue and Fracture of Engineering Materials and Structures, 2011, 34, 131-138. | 1.7 | 8 |
| 35 | Fracture toughness and low cycle fatigue behaviour in boron modified Timetal 834 titanium alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 529, 74-80. | 2.6 | 18 |
| 36 | Effect of strain rate on tensile behaviour of cryo-rolled ultrafine grained OFHC copper. Transactions of the Indian Institute of Metals, 2011, 64, 321-324. | 0.7 | 5 |

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|----|---|-----|-----------|
| 37 | Effects of strain waveform on low cycle fatigue behaviour of near α Timetal 834 titanium alloy. <i>Materials & Design</i> , 2011, 32, 1710-1715. | 5.1 | 16 |
| 38 | Isothermal and thermomechanical fatigue behaviour of Ti-6Al-4V titanium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 6263-6270. | 2.6 | 32 |
| 39 | Tensile and creep properties of thermomechanically processed boron modified Timetal 834 titanium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 6733-6741. | 2.6 | 28 |
| 40 | Low cycle fatigue behaviour of modified and conventional superalloy Inconel 718 at 650°C. <i>Transactions of the Indian Institute of Metals</i> , 2010, 63, 63-66. | 0.7 | 7 |
| 41 | A comparative evaluation of low cycle fatigue behavior of conventional and modified INCONEL 718. <i>Transactions of the Indian Institute of Metals</i> , 2010, 63, 515-516. | 0.7 | 5 |
| 42 | Fatigue crack growth behaviour of nickel based superalloys at ambient temperature. <i>Transactions of the Indian Institute of Metals</i> , 2010, 63, 719-721. | 0.7 | 0 |
| 43 | Effect of temperature and hold time on internal hardening behavior of a near α titanium alloy under cyclic deformation. <i>Materials & Design</i> , 2010, 31, 2716-2724. | 5.1 | 19 |
| 44 | High temperature low cycle fatigue behaviour of hot isostatically pressed superalloy Udimet 720 LI. <i>Materials at High Temperatures</i> , 2010, 27, 295-300. | 0.5 | 0 |
| 45 | Dynamic fracture toughness of a near alpha titanium alloy Timetal 834. <i>Journal of Alloys and Compounds</i> , 2010, 491, 237-241. | 2.8 | 16 |
| 46 | Influence of hold time on low cycle fatigue behaviour of near alpha titanium alloy IMI 834 at 873K. <i>Transactions of the Indian Institute of Metals</i> , 2008, 61, 407-414. | 0.7 | 2 |
| 47 | Serrated flow behavior in a near alpha titanium alloy IMI 834. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 486, 158-166. | 2.6 | 50 |
| 48 | Transient flow behaviour in a near alpha titanium alloy Timetal 834 in the dynamic strain aging regime. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 490, 477-480. | 2.6 | 16 |
| 49 | The influence of dynamic strain aging on the low cycle fatigue behavior of near alpha titanium alloy IMI 834. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 494, 227-231. | 2.6 | 31 |