

Daniel Barba

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

1,259
citations

566801

15
h-index

676716

22
g-index

28
all docs

28
docs citations

28
times ranked

1055
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Thermo-mechanics of Polymers at Extreme and Failure Conditions: Influence of Strain Rate and Temperature. , 2022, , 249-276. | | 0 |
| 2 | Alloys-by-design: A low-modulus titanium alloy for additively manufactured biomedical implants. Acta Materialia, 2022, 229, 117749. | 3.8 | 39 |
| 3 | Biomechanical Comparison of Periprosthetic Femoral Fracture Risk in Three Femoral Components in a Sawbone Model. Journal of Arthroplasty, 2021, 36, 387-394. | 1.5 | 11 |
| 4 | On the mechanical behaviour of additively manufactured metamaterials under dynamic conditions. EPJ Web of Conferences, 2021, 250, 05006. | 0.1 | 1 |
| 5 | Temperature and strain rate dependences on hardening and softening behaviours in semi-crystalline polymers: Application to PEEK. International Journal of Solids and Structures, 2020, 182-183, 205-217. | 1.3 | 58 |
| 6 | On the size and orientation effect in additive manufactured Ti-6Al-4V. Materials and Design, 2020, 186, 108235. | 3.3 | 95 |
| 7 | A Novel Titanium Alloy for Additively Manufactured Orthopaedic Implants. Minerals, Metals and Materials Series, 2020, , 267-276. | 0.3 | 1 |
| 8 | On the Temperature Limits of Ni-Based Superalloys. Minerals, Metals and Materials Series, 2020, , 785-792. | 0.3 | 2 |
| 9 | Design of Metallic Lattices for Bone Implants by Additive Manufacturing. Minerals, Metals and Materials Series, 2020, , 745-759. | 0.3 | 3 |
| 10 | Smart Modelling of Additively Manufactured Metamaterials. , 2020, , . | | 1 |
| 11 | On the Size Effects in Additively Manufactured Titanium and the Implications in AM Components. Minerals, Metals and Materials Series, 2020, , 449-456. | 0.3 | 0 |
| 12 | Rationalisation of the Micromechanisms Behind the High-Temperature Strength Limit in Single-Crystal Nickel-Based Superalloys. Minerals, Metals and Materials Series, 2020, , 260-272. | 0.3 | 4 |
| 13 | Thermo-mechanics of Polymers at Extreme and Failure Conditions: Influence of Strain Rate and Temperature. , 2020, , 1-28. | | 0 |
| 14 | On Optimising Ring-Rolling Manufacturability of C&W Nickel Superalloys for Aero-engine Turbine Disc. Minerals, Metals and Materials Series, 2020, , 408-420. | 0.3 | 0 |
| 15 | Synthetic bone: Design by additive manufacturing. Acta Biomaterialia, 2019, 97, 637-656. | 4.1 | 169 |
| 16 | Alloys-by-design: Application to titanium alloys for optimal superplasticity. Acta Materialia, 2019, 178, 275-287. | 3.8 | 75 |
| 17 | Design of metallic bone by additive manufacturing. Scripta Materialia, 2019, 164, 110-114. | 2.6 | 119 |
| 18 | Ultrafast miniaturised assessment of high-temperature creep properties of metals. Materials Letters, 2019, 240, 287-290. | 1.3 | 3 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Grain boundary properties of a nickel-based superalloy: Characterisation and modelling. Acta Materialia, 2018, 151, 377-394. | 3.8 | 42 |
| 20 | A thermodynamically consistent constitutive model for diffusion-assisted plasticity in Ni-based superalloys. International Journal of Plasticity, 2018, 105, 74-98. | 4.1 | 28 |
| 21 | Combined modelling and miniaturised characterisation of high-temperature forging in a nickel-based superalloy. Materials and Design, 2018, 160, 683-697. | 3.3 | 24 |
| 22 | Segregation-Assisted Plasticity in Ni-Based Superalloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 4173-4185. | 1.1 | 75 |
| 23 | On the microtwinning mechanism in a single crystal superalloy. Acta Materialia, 2017, 135, 314-329. | 3.8 | 102 |
| 24 | On the composition of microtwins in a single crystal nickel-based superalloy. Scripta Materialia, 2017, 127, 37-40. | 2.6 | 59 |
| 25 | On the role of boron on improving ductility in a new polycrystalline superalloy. Acta Materialia, 2017, 124, 489-500. | 3.8 | 90 |
| 26 | On the mechanisms of superplasticity in Ti-6Al-4V. Acta Materialia, 2016, 105, 449-463. | 3.8 | 171 |
| 27 | Multiscale modeling of the mechanical behavior of IN718 superalloy based on micropillar compression and computational homogenization. Acta Materialia, 2015, 98, 242-253. | 3.8 | 83 |
| 28 | Mechanisms of Superplasticity in Titanium Alloys: Measurement, & In Situ & Observations and Rationalization. Defect and Diffusion Forum, 0, 385, 65-71. | 0.4 | 4 |