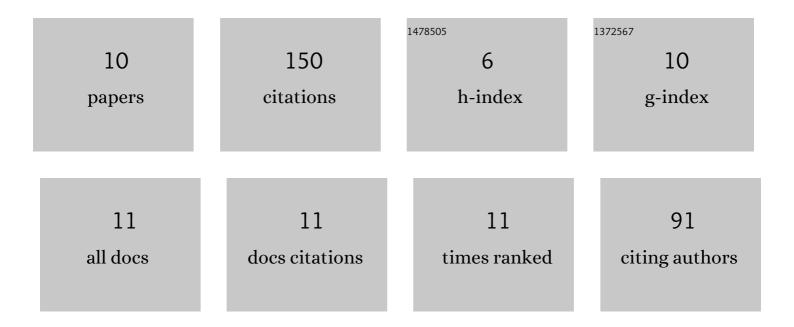
David Montes de Oca Zapiain

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Accelerating phase-field-based microstructure evolution predictions via surrogate models trained by machine learning methods. Npj Computational Materials, 2021, 7, . | 8.7 | 69 |
| 2 | Reduced-Order Microstructure-Sensitive Models for Damage Initiation in Two-Phase Composites. Integrating Materials and Manufacturing Innovation, 2018, 7, 97-115. | 2.6 | 18 |
| 3 | Prediction of microscale plastic strain rate fields in two-phase composites subjected to an arbitrary macroscale strain rate using the materials knowledge system framework. Acta Materialia, 2017, 141, 230-240. | 7.9 | 15 |
| 4 | Microscopic and Macroscopic Characterization of Grain Boundary Energy and Strength in Silicon Carbide via Machine-Learning Techniques. ACS Applied Materials & Interfaces, 2021, 13, 3311-3324. | 8.0 | 12 |
| 5 | Characterizing the Tensile Strength of Metastable Grain Boundaries in Silicon Carbide Using Machine Learning. Journal of Physical Chemistry C, 2020, 124, 24809-24821. | 3.1 | 9 |
| 6 | Localization models for the plastic response of polycrystalline materials using the material knowledge systems framework. Modelling and Simulation in Materials Science and Engineering, 2019, 27, 074008. | 2.0 | 8 |
| 7 | Texture-sensitive prediction of micro-spring performance using Gaussian process models calibrated to finite element simulations. Materials and Design, 2021, 197, 109198. | 7.0 | 7 |
| 8 | Predicting plastic anisotropy using crystal plasticity and Bayesian neural network surrogate models. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 833, 142472. | 5.6 | 6 |
| 9 | Reduced-Order Models for Ranking Damage Initiation in Dual-Phase Composites Using Bayesian Neural Networks. Jom, 2020, 72, 4359-4369. | 1.9 | 4 |
| 10 | Convolutional Neural Networks for the Localization of Plastic Velocity Gradient Tensor in Polycrystalline Microstructures. Journal of Engineering Materials and Technology, Transactions of the ASME, 2022, 144, . | 1.4 | 2 |