

Fabrice Barbe

List of Publications by Year in descending order

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36
papers

2,072
citations

566801

15
h-index

360668

35
g-index

37
all docs

37
docs citations

37
times ranked

1663
citing authors

#	ARTICLE	IF	CITATIONS
1	Fracture of Honeycombs Produced by Additive Manufacturing. Journal of Multiscale Modeling, 2022, 13, .	1.0	1
2	Experimental and numerical investigations of plastic strain mechanisms of AISI 316L alloys with bimodal grain size distribution. International Journal of Plasticity, 2022, 153, 103246.	4.1	15
3	Identification of crystal plasticity parameters for a non-irradiated and irradiated A508 bainite steel. Metallurgical Research and Technology, 2021, 118, 204.	0.4	1
4	A full-field crystal-plasticity analysis of bimodal polycrystals. International Journal of Solids and Structures, 2020, 184, 178-192.	1.3	24
5	Study of thermomechanical coupling in carbon fibers woven-ply reinforced thermoplastic laminates: Tensile behavior under radiant heat flux. Polymer Composites, 2020, 41, 3552-3563.	2.3	7
6	Investigations on the fracture behavior of Inconel 718 superalloys obtained from cast and additive manufacturing processes. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 790, 139666.	2.6	26
7	An investigation into the fracture behaviour of honeycombs with density gradients. AIP Conference Proceedings, 2020, , .	0.3	3
8	Elucidating the Effect of Bimodal Grain Size Distribution on Plasticity and Fracture Behavior of Polycrystalline Materials. Journal of Multiscale Modeling, 2020, 11, .	1.0	2
9	Mechanical behavior of carbon fibers polyphenylene sulfide composites exposed to radiant heat flux and constant compressive force. Composite Structures, 2018, 200, 1-11.	3.1	16
10	Tensile properties of spark plasma sintered AISI 316L stainless steel with unimodal and bimodal grain size distributions. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 729, 249-256.	2.6	45
11	Post-fire compressive behaviour of carbon fibers woven-ply Polyphenylene Sulfide laminates for aeronautical applications. Composites Part B: Engineering, 2017, 119, 101-113.	5.9	30
12	Elaboration of austenitic stainless steel samples with bimodal grain size distributions and investigation of their mechanical behavior. AIP Conference Proceedings, 2017, , .	0.3	4
13	Influence of matrix nature on the post-fire mechanical behaviour of notched polymer-based composite structures for high temperature applications. Composites Part B: Engineering, 2016, 100, 114-124.	5.9	15
14	Bimodal distribution of blocking temperature for exchange-bias ferromagnetic/antiferromagnetic bilayers: a granular Monte Carlo study with less stable magnetic regions spread over the interface. Journal Physics D: Applied Physics, 2015, 48, 115001.	1.3	10
15	Temperature dependence of the exchange bias properties of ferromagnetic/antiferromagnetic polycrystalline bilayers. Journal of Magnetism and Magnetic Materials, 2014, 372, 134-140.	1.0	13
16	Porous Biodegradable Starch-Based Polymer: Effects of Plasticizers on the Physical Properties. Macromolecular Symposia, 2014, 340, 65-72.	0.4	1
17	Modelling Polycrystalline Materials: An Overview of Three-Dimensional Grain-Scale Mechanical Models. Journal of Multiscale Modeling, 2013, 05, 1350002.	1.0	43
18	Temperature effect in polycrystalline exchange-biased bilayers: A Monte Carlo study. Journal of Applied Physics, 2012, 111, 07D105.	1.1	2

#	ARTICLE	IF	CITATIONS
19	Evaluation of microstructure-based transformation plasticity models from experiments on 100C6 steel. <i>Computational Materials Science</i> , 2012, 52, 55-60.	1.4	10
20	Micromechanical local approach to brittle failure in bainite high resolution polycrystals: A short presentation. <i>Computational Materials Science</i> , 2012, 64, 62-65.	1.4	5
21	Experiment-based analyses of martensitic transformation plasticity predictions from different models in cases of pre-hardening and gradually varying loads. <i>Computational Materials Science</i> , 2012, 64, 25-29.	1.4	1
22	Large-scale 3D random polycrystals for the finite element method: Generation, meshing and remeshing. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2011, 200, 1729-1745.	3.4	806
23	A numerical modelling of 3D polycrystal-to-polycrystal diffusive phase transformations involving crystal plasticity. <i>International Journal of Plasticity</i> , 2011, 27, 823-840.	4.1	39
24	Effect of the random spatial distribution of nuclei on the transformation plasticity in diffusively transforming steel. <i>International Journal of Microstructure and Materials Properties</i> , 2010, 5, 354.	0.1	3
25	Three-dimensional characterization of strain localization bands in high-resolution elastoplastic polycrystals. <i>Mechanics Research Communications</i> , 2009, 36, 762-768.	1.0	30
26	Numerical modelling of the plasticity induced during diffusive transformation. An ensemble averaging approach for the case of random arrays of nuclei. <i>European Journal of Mechanics, A/Solids</i> , 2008, 27, 1121-1139.	2.1	19
27	FE determination of the plasticity induced during diffusive transformation in the case of nucleation at random locations and instants. <i>Computational Materials Science</i> , 2008, 43, 101-107.	1.4	9
28	Numerical modelling of the plasticity induced during diffusive transformation. Case of a cubic array of nuclei. <i>European Journal of Mechanics, A/Solids</i> , 2007, 26, 611-625.	2.1	23
29	Parametric numerical simulations of TRIP and its interaction with classical plasticity in martensitic transformation. <i>European Journal of Mechanics, A/Solids</i> , 2007, 26, 688-700.	2.1	26
30	Analysis by x-ray microtomography of a granular packing undergoing compaction. <i>Physical Review E</i> , 2003, 68, 020301.	0.8	114
31	Numerical study of crystalline plasticity: measurements of the heterogeneities due to grain boundaries under small strains. <i>Revue De Metallurgie</i> , 2003, 100, 815-823.	0.3	5
32	Intergranular and intragranular behavior of polycrystalline aggregates. Part 1: F.E. model. <i>International Journal of Plasticity</i> , 2001, 17, 513-536.	4.1	309
33	Intergranular and intragranular behavior of polycrystalline aggregates. Part 2: Results. <i>International Journal of Plasticity</i> , 2001, 17, 537-563.	4.1	201
34	Polycrystalline Plasticity Under Small Strains. , 2001, , 191-206.		3
35	Cosserat modelling of size effects in the mechanical behaviour of polycrystals and multi-phase materials. <i>International Journal of Solids and Structures</i> , 2000, 37, 7105-7126.	1.3	204
36	Plastic deformation of minerals at high pressure. , 0, , 389-415.		6