

Benoit Revil-Baudard

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

68

papers

530

citations

12

h-index

21

g-index

73

ext. papers

596

ext. citations

2.3

avg, IF

4.13

L-index

#	Paper	IF	Citations
68	Modeling bending of titanium with embedded polycrystal plasticity in implicit finite elements. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 564, 116-126	5.3	133
67	Combined effects of anisotropy and tension-compression asymmetry on the torsional response of AZ31 Mg. <i>International Journal of Solids and Structures</i> , 2015 , 58, 190-200	3.1	38
66	On the Combined Effect of Pressure and Third Invariant on Yielding of Porous Solids With von Mises Matrix. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2013 , 80,	2.7	37
65	New analytical criterion for porous solids with Tresca matrix under axisymmetric loadings. <i>International Journal of Solids and Structures</i> , 2014 , 51, 861-874	3.1	29
64	Correlation between swift effects and tension-compression asymmetry in various polycrystalline materials. <i>Journal of the Mechanics and Physics of Solids</i> , 2014 , 70, 104-115	5	28
63	Plastic deformation of high-purity titanium: Model development and validation using the Taylor cylinder impact test. <i>Mechanics of Materials</i> , 2015 , 80, 264-275	3.3	27
62	Unusual plastic deformation and damage features in titanium: Experimental tests and constitutive modeling. <i>Journal of the Mechanics and Physics of Solids</i> , 2016 , 88, 100-122	5	20
61	On the effect of the matrix tension-compression asymmetry on damage evolution in porous plastic solids. <i>European Journal of Mechanics, A/Solids</i> , 2013 , 37, 35-44	3.7	17
60	New three-dimensional strain-rate potentials for isotropic porous metals: Role of the plastic flow of the matrix. <i>International Journal of Plasticity</i> , 2014 , 60, 101-117	7.6	16
59	New interpretation of monotonic Swift effects: Role of tension-compression asymmetry. <i>Mechanics of Materials</i> , 2013 , 57, 42-52	3.3	16
58	High strain-rate plastic deformation of molybdenum: Experimental investigation, constitutive modeling and validation using impact tests. <i>International Journal of Impact Engineering</i> , 2016 , 96, 116-128	4	13
57	A yield criterion for cubic single crystals. <i>International Journal of Solids and Structures</i> , 2018 , 151, 9-19	3.1	12
56	Importance of the coupling between the sign of the mean stress and the third invariant on the rate of void growth and collapse in porous solids with a von Mises matrix. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2014 , 22, 025005	2	12
55	New analytic criterion for porous solids with pressure-insensitive matrix. <i>International Journal of Plasticity</i> , 2017 , 89, 66-84	7.6	11
54	Plasticity-Damage Couplings: From Single Crystal to Polycrystalline Materials. <i>Solid Mechanics and Its Applications</i> , 2019 ,	0.4	11
53	Effect of the yield stresses in uniaxial tension and pure shear on the size of the plastic zone near a crack. <i>International Journal of Plasticity</i> , 2018 , 102, 101-117	7.6	10
52	Effect of stress triaxiality on porosity evolution in notched bars: Quantitative agreement between a recent dilatational model and X-ray tomography data. <i>Mechanics Research Communications</i> , 2013 , 50, 77-82	2.2	10

51	Role of the plastic flow of the matrix on yielding and void evolution of porous solids: Comparison between the theoretical response of porous solids with Tresca and von Mises matrices. <i>Mechanics Research Communications</i> , 2014 , 56, 69-75	2.2	9
50	Plastic deformation of polycrystalline molybdenum: Experimental data and macroscopic model accounting for its anisotropy and tension-compression asymmetry. <i>International Journal of Solids and Structures</i> , 2015 , 75-76, 287-298	3.1	8
49	New interpretation of cyclic Swift effects. <i>European Journal of Mechanics, A/Solids</i> , 2014 , 44, 82-90	3.7	8
48	Importance of the consideration of the specificities of local plastic deformation on the response of porous solids with Tresca matrix. <i>European Journal of Mechanics, A/Solids</i> , 2014 , 47, 194-205	3.7	7
47	Simulation du comportement mécanique des alliages de titane pour les procédés de mise en forme à froid de produits plats. <i>Mecanique Et Industries</i> , 2010 , 11, 265-270		6
46	Experimental Characterization and Modeling of the Anisotropy and Tension-Compression Asymmetry of Polycrystalline Molybdenum for Strain Rates Ranging from Quasi-static to Impact. <i>Jom</i> , 2015 , 67, 2635-2641	2.1	5
45	Modeling the effect of notch geometry on the deformation of a strongly anisotropic aluminum alloy. <i>European Journal of Mechanics, A/Solids</i> , 2020 , 82, 104004	3.7	5
44	Analytical expressions for the yield stress and Lankford coefficients of polycrystalline sheets based on a new single crystal model. <i>International Journal of Material Forming</i> , 2018 , 11, 571-581	2	5
43	Prediction of plastic anisotropy of textured polycrystalline sheets using a new single-crystal model. <i>Comptes Rendus - Mecanique</i> , 2018 , 346, 756-769	2.1	5
42	A model for creep of porous crystals with cubic symmetry. <i>International Journal of Solids and Structures</i> , 2017 , 110-111, 67-79	3.1	4
41	New three-dimensional plastic potentials for porous solids with a von Mises matrix. <i>Comptes Rendus - Mecanique</i> , 2015 , 343, 77-94	2.1	4
40	Forming of Materials with Cubic Crystal Structure. <i>Procedia Manufacturing</i> , 2020 , 47, 1300-1307	1.5	2
39	Prediction of strain distribution and four, six, or eight ears depending on single-crystal orientation using a new single crystal criterion. <i>International Journal of Material Forming</i> , 2019 , 12, 943-954	2	2
38	New polycrystalline modeling as applied to textured steel sheets. <i>Mechanics Research Communications</i> , 2017 , 84, 98-101	2.2	2
37	Plastic deformation of high-purity α -titanium: model development and validation using the Taylor cylinder impact test. <i>Journal of Physics: Conference Series</i> , 2016 , 734, 032048	0.3	2
36	Tension-compression asymmetry effects on the plastic response in bending: new theoretical and numerical results. <i>Mechanics Research Communications</i> , 2021 , 114, 103596	2.2	2
35	Room-temperature plastic behavior and formability of a commercially pure titanium: Mechanical characterization, modeling, and validation. <i>International Journal of Solids and Structures</i> , 2021 , 228, 111121	3.1	2
34	On Modeling the Mechanical Behavior and Texture Evolution of Rolled AZ31 Mg for Complex Loadings Involving Strain Path Changes 2016 , 245-250		1

33	New Analytical Criterion for Porous Solids with Tresca Matrix 2014 , 3, 1412-1417		1
32	On the influence of damage evolution in an incompressible material with matrix displaying tension-compression asymmetry. <i>Procedia IUTAM</i> , 2012 , 3, 331-349		1
31	Plastic Deformation of Single Crystals. <i>Solid Mechanics and Its Applications</i> , 2019 , 61-139	0.4	1
30	Yield Criteria for Anisotropic Polycrystals. <i>Solid Mechanics and Its Applications</i> , 2019 , 201-288	0.4	1
29	Anisotropic Plastic Potentials for Porous Metallic Materials. <i>Solid Mechanics and Its Applications</i> , 2019 , 503-581	0.4	1
28	Constitutive modeling of a commercially pure titanium: validation using bulge tests. <i>Journal of Physics: Conference Series</i> , 2016 , 734, 032057	0.3	1
27	Prediction of the torsional response of HCP metals. <i>Journal of Physics: Conference Series</i> , 2018 , 1063, 012045	0.3	1
26	Plastic deformation of metallic materials during dynamic events. <i>Journal of Physics: Conference Series</i> , 2018 , 1063, 012054	0.3	1
25	Dynamic response of polycrystalline high energetic systems: Constitutive modeling and application to impact. <i>Journal of Applied Physics</i> , 2022 , 131, 145101	2.5	1
24	Forming of titanium materials 2021 , 479-537		0
23	New Yield Criterion for Description of Plastic Deformation of Face-Centered Cubic Single Crystals. <i>Minerals, Metals and Materials Series</i> , 2017 , 393-398	0.3	
22	On Modeling Plasticity-damage Couplings in Polycrystalline Materials 2014 , 3, 1423-1428		
21	New analytic criterion for FCC single crystals. <i>Procedia Engineering</i> , 2017 , 207, 2113-2118		
20	Prediction of Anisotropy of Textured Sheets Based on a New Polycrystal Model. <i>Procedia Engineering</i> , 2017 , 207, 239-244		
19	New Model Predicting the Unusual Buckling Behavior of AZ31 Mg 2015 , 151-157		
18	Simulation of the anisotropic behavior of titanium alloys during sheet metal forming. <i>International Journal of Material Forming</i> , 2009 , 2, 73-76		2
17	Constitutive Equations for Elastic-Plastic Materials. <i>Solid Mechanics and Its Applications</i> , 2019 , 37-60	0.4	
16	Yield Criteria for Isotropic Polycrystals. <i>Solid Mechanics and Its Applications</i> , 2019 , 141-200	0.4	

15	Mathematical Framework. <i>Solid Mechanics and Its Applications</i> , 2019 , 1-35	0.4
14	Strain-Rate-Based Plastic Potentials for Polycrystalline Materials. <i>Solid Mechanics and Its Applications</i> , 2019 , 289-335	0.4
13	Plastic Potentials for Isotropic Porous Materials: Influence of the Particularities of Plastic Deformation on Damage Evolution. <i>Solid Mechanics and Its Applications</i> , 2019 , 337-502	0.4
12	Plastic Deformation of Pure Polycrystalline Molybdenum 143-175	
11	Role of the Plastic Flow of the Matrix on Yielding and Void Evolution of Porous Solids 573-580	
10	Response to the letter to editor. <i>International Journal of Material Forming</i> , 2020 , 13, 855-860	2
9	Numerical investigation into the dynamic behavior of sands. <i>Mechanics Research Communications</i> , 2021 , 114, 103664	2.2
8	Constitutive modeling and simulation at room-temperature deformation and failure of polycrystalline Molybdenum. <i>Journal of Physics: Conference Series</i> , 2016 , 734, 032110	0.3
7	Constitutive modelling of plastic deformation and damage in anisotropic high-purity titanium and validation using ex-situ and in-situ tomography data. <i>Journal of Physics: Conference Series</i> , 2016 , 734, 032052	0.3
6	Yield criteria for anisotropic materials 2021 , 115-208	
5	Yield criteria for isotropic materials 2021 , 37-114	
4	Experimental characterization and modeling of metallic materials with cubic crystal structure 2021 , 209-263	
3	Experimental characterization and modeling of metallic materials with hexagonal closed-packed structure 2021 , 265-310	
2	Prediction of four, six or eight ears in drawn cups of single-crystal aluminum sheets. <i>Journal of Physics: Conference Series</i> , 2018 , 1063, 012055	0.3
1	Elastic/plastic behavior of metallic materials in torsion and bending 2021 , 311-424	