

Tarak Bouraoui

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

249
citations

933264

10
h-index

996849

15
g-index

21
all docs

21
docs citations

21
times ranked

143
citing authors

#	ARTICLE	IF	CITATIONS
1	A finite-strain thermomechanical behavior model for iron-based shape memory alloys accounting for coupling between phase transformation and plastic slip. International Journal of Plasticity, 2020, 124, 96-116.	4.1	10
2	Experimental analysis of the pseudoelastic damping capacity of the Fe-30Mn-6Si-5Cr Shape Memory Alloy. Smart Materials and Structures, 2020, 29, 084002.	1.8	4
3	Modeling of Hydrogen Effects on the Thermomechanical Behavior of NiTi-Based Shape Memory Alloys. Shape Memory and Superelasticity, 2019, 5, 206-217.	1.1	5
4	Fatigue analysis of shape memory alloys by self-heating method. International Journal of Mechanical Sciences, 2019, 156, 329-341.	3.6	16
5	Numerical simulation of the force generated by a superelastic NiTi orthodontic archwire during tooth alignment phase: comparison between different constitutive models. Materials Research Express, 2018, 5, 045405.	0.8	13
6	Fatigue properties by "self-heating" method: Application to orthodontic Ni-Ti wires after hydrogen charging. Journal of Intelligent Material Systems and Structures, 2018, 29, 3242-3253.	1.4	5
7	Hydrogen effects on Ni-Ti fatigue performance by self-heating method. Smart Materials and Structures, 2017, 26, 105016.	1.8	6
8	Modeling of hydrogen effect on the superelastic behavior of Ni-Ti shape memory alloy wires. Smart Materials and Structures, 2016, 25, 115047.	1.8	12
9	Strain rate response of a Ni-Ti shape memory alloy after hydrogen charging. Philosophical Magazine Letters, 2014, 94, 30-36.	0.5	19
10	Finite element modeling of superelastic nickel-titanium orthodontic wires. Journal of Biomechanics, 2014, 47, 3630-3638.	0.9	22
11	Hydrogen effect on the austenite-martensite transformation of the cycled Ni-Ti alloy. Journal of Intelligent Material Systems and Structures, 2014, 25, 980-988.	1.4	22
12	Shape Memory Effect Improvement and Study of the Corrosion Resistance of the Fe-8Mn-6Si-13Cr-6Ni-12Co Alloy. Advanced Materials Research, 2012, 476-478, 2162-2170.	0.3	2
13	Effect of hydrogen on the tensile strength of aged Ni-Ti superelastic alloy. Journal of Intelligent Material Systems and Structures, 2011, 22, 2053-2059.	1.4	36
14	Modelling of martensitic transformation and plastic slip effects on the thermo-mechanical behaviour of Fe-based shape memory alloys. Mechanics of Materials, 2009, 41, 849-856.	1.7	23
15	Surface treatment and corrosion behaviour of Fe-32Mn-6Si shape memory alloy. Comptes Rendus Chimie, 2009, 12, 270-275.	0.2	17
16	Optimization of springback in L-bending process using a coupled Abaqus/Python algorithm. International Journal of Advanced Manufacturing Technology, 2009, 44, 61-67.	1.5	20
17	Tensile properties of a Fe-32Mn-6Si shape memory alloy. Strength of Materials, 2008, 40, 203-211.	0.2	8
18	Réticulation et comportement mécanique d'une résine polyester insaturée pour différents taux de catalyseur. Annales De Chimie: Science Des Matériaux, 2008, 33, 293-302.	0.2	2

#	ARTICLE	IF	CITATIONS
19	Plasticité de transformation d'un acier à mémoire de forme Fe ₁₈ Mn ₈ Cr ₅ Ni ₅ Si. Annales De Chimie: Science Des Materiaux, 2001, 26, 21-28.	0.2	0
20	Variations de résistivité électrique associées aux transformations martensitiques dans l'acier à mémoire de forme FM30. Journal De Physique III, 1996, 6, 831-841.	0.3	4
21	Effect of the Residual Deformation on the Mechanical Behavior of the Ni-Ti Alloy Charged by Hydrogen. Advanced Materials Research, 0, 324, 181-184.	0.3	3