

# 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	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
2	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
3	Finite element modeling of superelastic nickel-titanium orthodontic wires. Journal of Biomechanics, 2014, 47, 3630-3638.	0.9	22
4	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
5	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
6	Strain rate response of a Ni-Ti shape memory alloy after hydrogen charging. Philosophical Magazine Letters, 2014, 94, 30-36.	0.5	19
7	Surface treatment and corrosion behaviour of Fe-32Mn-6Si shape memory alloy. Comptes Rendus Chimie, 2009, 12, 270-275.	0.2	17
8	Fatigue analysis of shape memory alloys by self-heating method. International Journal of Mechanical Sciences, 2019, 156, 329-341.	3.6	16
9	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
10	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
11	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
12	Tensile properties of a Fe-32Mn-6Si shape memory alloy. Strength of Materials, 2008, 40, 203-211.	0.2	8
13	Hydrogen effects on Ni-Ti fatigue performance by self-heating method. Smart Materials and Structures, 2017, 26, 105016.	1.8	6
14	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
15	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
16	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
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Shape Memory Effect Improvement and Study of the Corrosion Resistance of the Fe-8Mn-6Si-13Cr-6Ni-12Co Alloy. <i>Advanced Materials Research</i> , 2012, 476-478, 2162-2170.	0.3	2
20	Réticulation et comportement mécanique d'une résine polyester insaturée pour différents taux de catalyseur. <i>Annales De Chimie: Science Des Matériaux</i> , 2008, 33, 293-302.	0.2	2
21	Plasticité de transformation d'un acier à mémoire de forme Fe <sub>18</sub> Mn <sub>8</sub> Cr <sub>5</sub> Ni <sub>5</sub> Si. <i>Annales De Chimie: Science Des Matériaux</i> , 2001, 26, 21-28.	0.2	0