Antonio Isalgue

List of Publications by Year
in descending order

134	1,861	257450	315739
papers	citations	24 h-index	38 g-index

135	135	135	1270
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Monitoring and Calculation Study in Mediterranean Residential Spaces: Thermal Performance Comparison for the Winter Season. Buildings, 2022, 12, 325.	3.1	4
2	Techno-economic optimization model for polygeneration hybrid energy storage systems using biogas and batteries. Energy, 2021, 218, 119544.	8.8	31
3	Data set of climatic factors measured in a low latitude region with warm and humid climate: Solar radiation, cloud cover and sky temperature. Data in Brief, 2021, 38, 107404.	1.0	1
4	The Energy Consumption of Terraces in the Barcelona Public Space: Heating the Street. Sustainability, 2021, 13, 865.	3.2	4
5	Heat Flux Balance in Mediterranean Climates: Thermal Insulation Location in Building Enclosures. Smart Innovation, Systems and Technologies, 2021, , 491-501.	0.6	0
6	The Role of Vegetation in Urban Comfort: Surface Temperature Assessment at Street Level. Smart Innovation, Systems and Technologies, 2021, , 539-548.	0.6	0
7	Evaluation of Three Lighting Software in the Use of Different Light Intensity Spaces. Smart Innovation, Systems and Technologies, 2021, , 419-429.	0.6	0
8	Exergetic model of a small-scale, biomass-based CCHP/HP system for historic building structures. Energy Conversion and Management: X, 2021, 12, 100148.	1.6	1
9	Renewable Land: Planning the Evolution of Logistic Areas. Architecture, City and Environment, 2021, 16, .	0.1	0
10	A techno-economic optimization model of a biomass-based CCHP/heat pump system under evolving climate conditions. Energy Conversion and Management, 2020, 223, 113256.	9.2	39
11	How Much Does It Cost to Go Off-Grid with Renewables? A Case Study of a Polygeneration System for a Neighbourhood in Hermosillo, Mexico. Smart Innovation, Systems and Technologies, 2020, , 395-405.	0.6	1
12	Buildingmass and Energy Demand in Conventional Housing Typologies of the Mediterranean City. Sustainability, 2019, 11, 3540.	3.2	2
13	3E-Analysis of a Bio-Solar CCHP System for the Andaman Islands, Indiaâ€"A Case Study. Energies, 2019, 12, 1113.	3.1	14
14	Assessment of the reflectivity and emissivity impact on light metal roofs thermal behaviour, in warm and humid climate. Energy and Buildings, 2019, 188-189, 200-208.	6.7	11
15	Biomass-fired combined cooling, heating and power for small scale applications â€“ A review. Renewable and Sustainable Energy Reviews, 2018, 96, 392-410.	16.4	58
16	An Approach to Daylight Contrast Assessment in Mediterranean Urban Environments. , 2017, , 77-87.		1
17	Ordering kinetics evaluation of FeAl powders. Intermetallics, 2017, 91, 78-85.	3.9	7
18	Daylight Management in Mediterranean Cities: When Shortage Is Not the Issue. Energies, 2016, 9, 753.	3.1	8

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19	Side-View Atmospheres under Outdoor Midday High Luminance. Buildings, 2016, 6, 53.	3.1	5
20	Solar Energy as a Form Giver for Future Cities. Energies, 2016, 9, 544.	3.1	15
21	A digital image processing method for urban scenes brightness assessment. Architecture, City and Environment, 2016, 11, 157-170.	0.1	2
22	Functional fatigue recovery of superelastic cycled NiTi wires based on near 100 Â°C aging treatments. MATEC Web of Conferences, 2015, 33, 03019.	0.2	1
23	Effect of Thermal Cycling on CuAlAg Shape Memory Alloys. Materials Today: Proceedings, 2015, 2, S805-S808.	1.8	2
24	Effects of Strain Aging in NiTi SMA Wire for Dampers. Materials Today: Proceedings, 2015, 2, S983-S986.	1.8	4
25	Microstructural effects of strain aging on NiTi pseudoelastic wires by synchrotron X-ray micro-diffraction. MATEC Web of Conferences, 2015, 33, 03020.	0.2	0
26	Behavior of NiTi Wires for Dampers and Actuators in Extreme Conditions. Journal of Materials Engineering and Performance, 2015, 24, 3323-3327.	2.5	12
27	Shape memory alloys as an effective tool to damp oscillations. Journal of Thermal Analysis and Calorimetry, 2015, 119, 1475-1533.	3.6	47
28	Yellow is green: An opportunity for energy savings through colour in architectural spaces. Energy and Buildings, 2014, 78, 105-112.	6.7	7
29	Metastable effects on martensitic transformation in SMA. Journal of Thermal Analysis and Calorimetry, 2013, 112, 777-780.	3.6	9
30	Mechanical and nanoindentation behavior of TiCâ€“NiTi thermal spray coatings. Journal of Alloys and Compounds, 2013, 577, S277-S281.	5.5	10
31	Built in dampers for stayed cables in bridges via SMA. The SMARTeR-ESF project: A mesoscopic and macroscopic experimental analysis with numerical simulations. Engineering Structures, 2013, 49, 43-57.	5.3	59
32	Thermomechanical Fatigue Behavior of NiTi Wires. Materials Science Forum, 2013, 738-739, 311-315.	0.3	0
33	NiTi Splat Features during Vacuum Thermal Spraying onto Several Substrates. Materials Science Forum, 2013, 738-739, 357-361.	0.3	0
34	Damping in civil engineering using SMA Part 2 â€“ particular properties of NiTi for damping of stayed cables in bridges. Canadian Metallurgical Quarterly, 2013, 52, 81-89.	1.2	18
35	SMA Dampers for Cable Vibration: An Available Solution for Oscillation Mitigation of Stayed Cables in Bridges. Advances in Science and Technology, 2012, 78, 92-102.	0.2	7
36	SMA (Cu-BASED, NiTi) FOR USE IN DAMPING: THE IMPLICATIONS OF RELIABILITY FOR LONG TIME APPLICATIONS AND AGING BEHAVIOR. Functional Materials Letters, 2012, 05, 1250008.	1.2	10

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37	SMA (NiTi): The Coupling between Time, Temperature and Cycling Frequency. Materials Science Forum, 2012, 730-732, 853-858.	0.3	0
38	Fatigue of NiTi for Dampers and Actuators. Advances in Science and Technology, 2012, 83, 18-27.	0.2	5
39	SMA in Mitigation of Extreme Loads in Civil Engineering: Study of their Application in a Realistic Steel Portico. Applied Mechanics and Materials, 2011, 82, 278-283.	0.2	7
40	Fatigue laboratory tests toward the design of SMA portico-braces. Smart Structures and Systems, 2011, 7, 41-57.	1.9	44
41	Damping in Civil Engineering Using SMA. Part I: Particular Properties of CuAlBe for Damping of Family Houses. Canadian Metallurgical Quarterly, 2010, 49, 179-190.	1.2	11
42	Metastable effects on martensitic transformation in SMA. Journal of Thermal Analysis and Calorimetry, 2010, 102, 671-680.	3.6	15
43	[illegible] tribological properties of TiCâ€“NiTi and TiCâ€“<mml:math altimg="si1.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/	1.2	3
44	Wear and corrosion of metal-matrix (stainless steel or NiTi)-TiC coatings. Physics Procedia, 2010, 10, 77-80.	1.2	9
45	Structure characterization and wear performance of NiTi thermal sprayed coatings. Smart Materials and Structures, 2010, 19, 085011.	3.5	17
46	Pseudoelastic fatigue of NiTi wires: frequency and size effects on damping capacity. Smart Materials and Structures, 2010, 19, 085006.	3.5	86
47	Damping in Civil Engineering Using SMA. The Fatigue Behavior and Stability of CuAlBe and NiTi Alloys. Journal of Materials Engineering and Performance, 2009, 18, 738-745.	2.5	24
48	Low temperature aging behaviour of transformation temperatures in some Cu-based and NiTi SMA. , 2009, , .		3
49	NiTi thermal sprayed coatings characterization. , 2009, , .		2
50	Wear of NiTi coatings obtained by thermal spraying. , 2009, , .		3
51	The SMA properties in civil engineering applications. The SMARTeR project: Use of SMA in damping of stayed cables for bridges. , 2009, , .		2
52	Choice of SMAs for damping applications in Civil Engineering: simulations and realistic experiments. , 2009, , .		0
53	Metastable effects on martensitic transformation in SMA part V. fatigue-life and detailed hysteresis behavior in NiTi and Cu-based alloys. Journal of Thermal Analysis and Calorimetry, 2008, 91, 575-579.	3.6	19
54	Metastable effects on martensitic transformation in SMA. Journal of Thermal Analysis and Calorimetry, 2008, 91, 991-998.	3.6	48

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55	Metastable effects on martensitic transformation in SMA part VII. Aging problems in NiTi. Journal of Thermal Analysis and Calorimetry, 2008, 92, 63-71.	3.6	9
56	Scaling laws and the modern city. Physica A: Statistical Mechanics and Its Applications, 2007, 382, 643-649.	2.6	31
57	Metastable effects on martensitic transformation in SMA. Journal of Thermal Analysis and Calorimetry, 2007, 89, 101-107.	3.6	26
58	Metastable effects on martensitic transformation in SMA. Journal of Thermal Analysis and Calorimetry, 2007, 89, 537-542.	3.6	20
59	Metastable effects onmartensitic transformation in SMA. Journal of Thermal Analysis and Calorimetry, 2007, 88, 537-548.	3.6	26
60	Built in dampers for family homes via SMA: An ANSYS computation scheme based on mesoscopic and microscopic experimental analyses. Engineering Structures, 2007, 29, 1889-1902.	5.3	59
61	SMA for Dampers in Civil Engineering. Materials Transactions, 2006, 47, 682-690.	1.2	25
62	Conditioning treatments of Cuâ€“Alâ€“Be shape memory alloys for dampers. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 438-440, 1085-1088.	5.6	16
63	Metastable effects on martensitic transformation in SMA (I) recoverable effects by the action of thermodynamic forces in parent phase. Journal of Thermal Analysis and Calorimetry, 2005, 81, 131-135.	3.6	17
64	Shape memory alloys: From the physical properties of metastable phase transitions to dampers for civil engineering applications. European Physical Journal Special Topics, 2004, 113, 85-90.	0.2	14
65	Micro and macroscopic effects on the long time guaranteed behaviour of Cu-based shape memory alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 378, 227-231.	5.6	5
66	Physical constraints in SMA applications. One study case: dampers in civil engineering. , 2004, , .		3
67	Mesoscale observations and yearly effects in Cu-Zn-Al shape memory alloys: Representative model and predictable damping effects. European Physical Journal Special Topics, 2003, 112, 1155-1158.	0.2	1
68	Fundamental aspects on the thermoelasticity and pseudoelasticity in single interface transformations. European Physical Journal Special Topics, 2003, 112, 479-482.	0.2	1
69	<title>Damping via Cu-Zn-Al shape memory alloys (SMA): the action of diffusive effects on the macroscopic description</title>. , 2002, 4696, 186.		2
70	Diffusion Effects on Transformation and Deformation Behavior in Copper-Based Shape Memory Alloys. Materials Transactions, 2002, 43, 926-932.	1.2	4
71	Guaranteed behaviour of shape memory alloys : After quench and long time effects in CuZnAl SMA. European Physical Journal Special Topics, 2001, 11, Pr8-141-Pr8-146.	0.2	2
72	<title>Damping in single crystals of Cu-Zn-Al SMA: predictable effects related to external amplitudes and temperature</title>. , 2001, , .		0

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73	‹title›Model and constitutive equation describing the hysteretic behavior of single crystals in Cu-Zn-Al SMA: from single plate to a collective behavior‹/title›. , 2001, 4326, 440.		0
74	Title is missing!. Magyar AprÃ³vad KÃ¶zlemÃ©nyek, 2001, 66, 7-16.	1.4	10
75	‹title›Guaranteed behavior on SMA: mesoscopic and microscopic analysis of Cu-based alloys‹/title›. , 2000, 3988, 244.		1
76	Microstructure and Thermodynamics of the Martensitic Transformation. Canadian Metallurgical Quarterly, 2000, 39, 207-214.	1.2	10
77	Microstructure and Thermodynamics of the Martensitic Transformation. Canadian Metallurgical Quarterly, 2000, 39, 207-214.	1.2	2
78	Low temperature crystallised Ti-rich NiTi shape memory alloy films for microactuators. Sensors and Actuators A: Physical, 1999, 74, 65-69.	4.1	54
79	Shape memory NiTi thin films deposited at low temperature. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1999, 273-275, 717-721.	5.6	14
80	Title is missing!. , 1998, 52, 773-780.		6
81	Title is missing!. Magyar AprÃ³vad KÃ¶zlemÃ©nyek, 1998, 53, 671-683.	1.4	5
82	The Mediterranean blind: Less light, better vision. Renewable Energy, 1998, 15, 431-436.	8.9	2
83	Experimental approach to the diffusion effects near room temperature in copperÂ-ÂzincÂ-Âaluminium shape memory alloys. High Temperatures - High Pressures, 1998, 30, 515-521.	0.3	0
84	Ms-Evolution in Cu-Zn-Al SMA. Predictable Temperature and Time Actions on Parent Phase. European Physical Journal Special Topics, 1997, 07, C5-339-C5-344.	0.2	2
85	MatÃ©riaux intelligents : modÃ©lisation prÃ©dictive de lâ€™Ã©volution temporelle dâ€™alliages Ã mÃ©moire de forme du type Cu-Zn-Al. Journal De Chimie Physique Et De Physico-Chimie Biologique, 1997, 94, 1069-1080.	0.2	0
86	Predictable behavior of smart materials (Cu-Zn-Al SMA). Journal of Thermal Analysis, 1996, 47, 151-163.	0.6	2
87	Time Evolution in Static Î²-Phase and Dynamic Î²-Martensite Coexistence (Cu-Zn-Al SMA). European Physical Journal Special Topics, 1995, 05, C8-853-C8-858.	0.2	2
88	Anisotropic Behaviour in Cu-Zn-Al SMA Due to the Oriented Growth of Î³ Precipitates. European Physical Journal Special Topics, 1995, 05, C2-153-C2-158.	0.2	0
89	Experimental Studies, Modelling and Simulation of the Hysteresis in SMA Single Crystals : The Ïƒ, Îµ, T and t Coordinate Space. European Physical Journal Special Topics, 1995, 05, C2-471-C2-476.	0.2	0
90	From adapted and computerized thermomechanical equipments to modelling and the time-evolution behaviour in Cuâ^'Znâ^'Al shape memory alloys. Journal of Thermal Analysis, 1994, 41, 1425-1432.	0.6	1

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91	Interaction of single variant martensitic transformation with small Î³ type precipitates in Cuî—¸Znî—¸Al. Acta Metallurgica Et Materialia, 1994, 42, 453-460.	1.8	36
92	Cu-Zn-Al SMA: Time dependent processes in the Î² - m coexistence. , 1994, , 923-926.		0
93	Î³ precipitates in Cu based SMA: Interface effects and training processes. , 1994, , 915-918.		0
94	Modelling and simulation in SMA. , 1994, , 943-946.		0
95	Oriented growth of gamma precipitates and TWSME in Cu-Zn-Al. Scripta Metallurgica Et Materialia, 1993, 28, 1183-1188.	1.0	11
96	High-resolution equipment for martensitic transformation in shape memory alloys: local studies in stress-strain-temperature. Measurement Science and Technology, 1993, 4, 456-461.	2.6	13
97	Hysteresis loops in stress induced Î²-18R martensite transformation in Cuî—¸Znî—¸Al. Acta Metallurgica Et Materialia, 1992, 40, 3389-3394.	1.8	20
98	Automatic equipment with improved performances (ATD and DSC) in shape memory alloys studies. Journal of Thermal Analysis, 1992, 38, 583-592.	0.6	10
99	Shape memory alloys: Local and global transformations by high resolution thermal analysis. Journal of Thermal Analysis, 1992, 38, 593-602.	0.6	4
100	SMA and SME in Cu-Zn-Al Alloys: Local Studies in Î±, Îµ, T Space. Materials Research Society Symposia Proceedings, 1991, 246, 241.	0.1	0
101	Study of the spinodal decomposition of an Fe-28Cr-2Mo-4Ni-Nb alloy by small-angle neutron scattering. Journal of Materials Science, 1990, 25, 4977-4980.	3.7	15
102	Analysis of a martensitic transformation by optical microscopy, acoustic emission detection, resistance measurements and differential scanning calorimetry. Thermochimica Acta, 1989, 155, 115-134.	2.7	12
103	Influence of the plastic strain amplitude on the stability of the spinodal microstructure in the cyclic deformation of a Fe-28Cr-2Mo-4Ni-Niî—¸Nb alloy. Scripta Metallurgica, 1989, 23, 1633-1638.	1.2	8
104	Magnetic frustration and lattice dimensionality in SrCr8Ga4O19. Solid State Communications, 1988, 65, 189-192.	1.9	191
105	The dynamics of bipyramidal ions in magnetoplumbite-like hexagonal ferrite systems revisited. European Physical Journal B, 1988, 70, 379-386.	1.5	13
106	Thermal behaviour of a medieval sheltered building. Energy and Buildings, 1987, 10, 19-27.	6.7	5
107	Neutron diffraction study of the crystallographic and magnetic structures of the BaFe12â^'xMnxO19 m-type hexagonal ferrites. Journal of Magnetism and Magnetic Materials, 1987, 69, 317-324.	2.3	33
108	Hexagonal ferrite particles for perpendicular recording prepared by the precursor method. IEEE Transactions on Magnetics, 1987, 23, 22-24.	2.1	33

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109	CEMs and Faraday rotation study of Î³-Fe<inf>2</inf>O<inf>3</inf>-Fe<inf>3</inf>O<inf>4</inf>films obtained by a new pyrolisis technique. IEEE Transactions on Magnetics, 1987, 23, 74-76.	2.1	6
110	Cation distribution and random spin canting in LaZnFe11O19. Journal of Physics C: Solid State Physics, 1986, 19, 6605-6621.	1.5	32
111	PropriÃ©tÃ©s magnÃ©tiques des ferrites hexagonaux: BaMg2â€“W et BaCo2â€“W. Physica Status Solidi A, 1986, 97, 511-519.	1.7	9
112	Exchange interactions in BaFe12O19. Applied Physics A: Solids and Surfaces, 1986, 39, 221-225.	1.4	46
113	Hyperfine fields and exchange interactions in BaLiFe17O27 W-type hexagonal ferrite. Hyperfine Interactions, 1986, 28, 565-568.	0.5	5
114	MÃ¶ssbauer study of the mixed ferrimagnetic-spin glass phase in SrFe12â^'x CrxO19 hexagonal ferrites. Hyperfine Interactions, 1986, 28, 569-572.	0.5	9
115	Thermal conductivity measurements on samples with low cross-sections. Journal of Thermal Analysis, 1986, 31, 279-284.	0.6	2
116	THERMAL REGULATION OF ATTACHED SOLAR SPACES. , 1986, , 151-155.		0
117	On the amorphous to crystalline transformation of Fe80B20 by means of electrical and thermal conductivity, X-ray diffraction, and MÃ¶ssbauer measurements. Physica Status Solidi A, 1985, 87, 169-174.	1.7	7
118	A simple generalized model for the kinetics of crystallization in metallic glasses. Physica Status Solidi A, 1985, 90, 127-133.	1.7	3
119	MAGNETIC PROPERTIES OF BaFe4Mn2O11 R-TYPE HEXAGONAL FERRITE. Journal De Physique Colloque, 1985, 46, C6-339-C6-343.	0.2	1
120	Spin glass behaviour in an antiferromagnetic non-frustrated lattice: Sr2FeNbO6perovskite. Journal of Physics C: Solid State Physics, 1985, 18, L401-L405.	1.5	75
121	PARTICLE SIZE AND MAGNETIC PROPERTIES OF BaFe₁₂O₁₉ PREPARED BY THE ORGANOMETALLIC PRECURSOR METHOD. Journal De Physique Colloque, 1985, 46, C6-335-C6-338.	0.2	9
122	DIPOLAR MAGNETIC ANISOTROPY IN SOME UNIAXIAL HEXAGONAL FERRITES. Journal De Physique Colloque, 1985, 46, C6-345-C6-348.	0.2	7
123	HIGH FIELD MAGNETIZATION STUDY OF SODIUM-ZINC SPINEL FERRITES. Journal De Physique Colloque, 1985, 46, C6-445-C6-448.	0.2	2
124	MÃ¶ssbauer study of bipyramidal site occupancy in BaFe12â^'xMnxO19. Solid State Communications, 1984, 50, 821-824.	1.9	20
125	Cation distribution and high field magnetization studies on SrFe<inf>12-x</inf>Cr<inf>x</inf>O<inf>19</inf>. IEEE Transactions on Magnetics, 1984, 20, 1636-1638.	2.1	29
126	Synthesis, crystal and molecular structure and spectroscopic studies (i.r., electronic,13C-n.m.r. and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 and its chromium(III) analogue. Transition Metal Chemistry, 1984, 9, 57-62.	1.4	6

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127	Structural and magnetic properties of BaFe12-xMnxO19 hexagonal ferrites. Journal of Magnetism and Magnetic Materials, 1984, 44, 118-128.	2.3	69
128	Crystal structure and cationic distribution of BaFe4Ti2O11 R-type hexagonal ferrite. Materials Research Bulletin, 1983, 18, 1543-1553.	5.2	34
129	MÃ–ssbauer emission studies of LiNbO₃:⁵⁷Co. Radiation Effects, 1983, 73, 173-177.	0.4	0
130	Damping by SMA in Civil Engineering Structures. Advances in Science and Technology, 0, , .	0.2	1
131	Oxidation Behaviour of Stainles Steel Matrix with TiC and TiC+TiB₂ SHS Powders in a Thermal Spray Process. Defect and Diffusion Forum, 0, 289-292, 455-460.	0.4	2
132	SMA in Mitigation of Extreme Loads in Civil Engineering: Damping Actions in Stayed Cables. Applied Mechanics and Materials, 0, 82, 539-544.	0.2	20
133	SMA Fatigue in Civil Engineering Applications. Advances in Science and Technology, 0, , 168-177.	0.2	1
134	Analysis and discussion of maritime accidents in the spanish fishing sector. , 0, , .		0