

Alberto Somoza

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2406526/publications.pdf>

Version: 2024-02-01

72
papers

1,552
citations

257357

24
h-index

345118

36
g-index

72
all docs

72
docs citations

72
times ranked

1438
citing authors

#	ARTICLE	IF	CITATIONS
1	Studies of light alloys by positron annihilation techniques. <i>Acta Materialia</i> , 2004, 52, 4707-4726.	3.8	133
2	Microstructural evolution of 7012 alloy during the early stages of artificial ageing. <i>Acta Materialia</i> , 1999, 47, 4355-4364.	3.8	80
3	Effect of the nano-cellulose content on the properties of reinforced polyurethanes. A study using mechanical tests and positron anihilation spectroscopy. <i>Polymer Testing</i> , 2013, 32, 115-122.	2.3	70
4	Positron trapping at grain boundaries. <i>Physical Review B</i> , 1993, 48, 9235-9245.	1.1	67
5	Dependence of the network structure of cured styrene butadiene rubber on the sulphur content. <i>Polymer</i> , 2004, 45, 6037-6044.	1.8	66
6	Secondary precipitation in Al–Zn–Mg–(Ag) alloys. <i>Acta Materialia</i> , 2003, 51, 5151-5158.	3.8	55
7	Measurement of the Young's modulus in particulate epoxy composites using the impulse excitation technique. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 4619-4623.	2.6	46
8	A comparative study of the post-quench behaviour of Cu–Al–Be and Cu–Zn–Al shape memory alloys. <i>Acta Materialia</i> , 1998, 46, 1045-1053.	3.8	44
9	Yield and internal stresses in aluminum filled epoxy resin. A compression test and positron annihilation analysis. <i>Polymer</i> , 2003, 44, 3193-3199.	1.8	44
10	Pre-precipitation study in the 7012 Al–Zn–Mg–Cu alloy by electrical resistivity. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002, 334, 1-5.	2.6	43
11	Current positron studies of structural modifications in age-hardenable metallic systems. <i>Journal of Physics Condensed Matter</i> , 1998, 10, 10409-10422.	0.7	40
12	Influence of vulcanization temperature on the cure kinetics and on the microstructural properties in natural rubber/styrene-butadiene rubber blends prepared by solution mixing. <i>European Polymer Journal</i> , 2015, 69, 50-61.	2.6	37
13	Quenched-in defects and martensitic transformation in Cu–Al–Be shape memory alloys. <i>Acta Materialia</i> , 1997, 45, 2101-2107.	3.8	34
14	Natural rubber/styrene-butadiene rubber blends prepared by solution mixing: Influence of vulcanization temperature using a Semi-EV sulfur curing system on the microstructural properties. <i>Polymer Testing</i> , 2017, 63, 150-157.	2.3	33
15	Influence of the filler content on the thermal expansion behavior of an epoxy matrix particulate composite. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2009, 157, 26-31.	1.7	31
16	Influence of a microalloying addition of Ag on the precipitation kinetics of an Al–Cu–Mg alloy with high Mg:Cu ratio. <i>Acta Materialia</i> , 2015, 98, 275-287.	3.8	31
17	Direct relationships between volume variations at macro and nanoscale in epoxy systems. PALS/PVT measurements. <i>Polymer</i> , 2004, 45, 6691-6697.	1.8	30
18	Nucleation, growth and coarsening of β -precipitates in a Ni–Cr–Al-based commercial superalloy during artificial aging. <i>Journal of Alloys and Compounds</i> , 2009, 479, 129-133.	2.8	30

#	ARTICLE	IF	CITATIONS
37	Influence of the BaTiO ₃ addition to K _{0.5} Na _{0.5} NbO ₃ lead-free ceramics on the vacancy-like defect structure and dielectric properties. <i>Journal of the European Ceramic Society</i> , 2021, 41, 1288-1298.	2.8	17
38	A SAXS and swelling study of cured natural rubber/styrene-butadiene rubber blends. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009, 47, 2320-2327.	2.4	16
39	Structural properties of vegetable oil thermosets: Effect of crosslinkers, modifiers and oxidative aging. <i>European Polymer Journal</i> , 2020, 124, 109470.	2.6	15
40	Electronic and bonding properties of MgH ₂ -Nb containing vacancies. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 12421-12427.	3.8	14
41	Positron trapping in BaTiO ₃ perovskite. <i>Journal of Physics Condensed Matter</i> , 2001, 13, 5717-5722.	0.7	13
42	Positron annihilation study of δ' precipitation kinetics in an aluminium alloy. <i>Journal of Physics Condensed Matter</i> , 1989, 1, 3679-3686.	0.7	12
43	Age-Hardening and Precipitation Phenomena in the Inconel-713C Superalloy Studied by Means of Positron Lifetime Spectroscopy. <i>Physica Status Solidi A</i> , 1999, 174, 189-198.	1.7	11
44	Microstructural analysis of carbon films obtained from C ₆₀ fullerene ion beams. <i>Applied Surface Science</i> , 2003, 211, 379-385.	3.1	11
45	Intermolecular interactions on amine-cured epoxy matrices with different crosslink densities. Influence on the hole and specific volumes and the mechanical behavior. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009, 47, 1240-1252.	2.4	11
46	Quench-In Defects in Long Range Ordered β^2 Cu-Zn-Al Alloys. <i>Materials Science Forum</i> , 1995, 175-178, 497-500.	0.3	10
47	Cure temperature influence on natural rubber-A small angle X-ray scattering study. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007, 45, 2966-2971.	2.4	10
48	Impurity migration and effects on vacancy formation enthalpy in polycrystalline depleted uranium. <i>Journal of Nuclear Materials</i> , 2015, 466, 343-350.	1.3	10
49	Nanohole volume dependence on the cure schedule in epoxy thermosetting networks: A PALS study. <i>Polymer</i> , 2006, 47, 5066-5070.	1.8	9
50	Positron Diffusion and Trapping in Fine-Grained Materials. <i>Materials Science Forum</i> , 1995, 175-178, 35-46.	0.3	8
51	On the perfect MgH ₂ (-Nb,-Zr) systems and the influence of vacancy-like defects on their structural properties. A self-consistent first principle calculations study of the electron and positron parameters. <i>Journal of Alloys and Compounds</i> , 2013, 556, 188-197.	2.8	8
52	Aging behavior in Cu-Al-Be shape memory alloy. <i>Journal of Applied Physics</i> , 1999, 85, 130-133.	1.1	7
53	On the matrix-particle interphase in epoxy-based composites. <i>Journal of Alloys and Compounds</i> , 2010, 495, 588-591.	2.8	6
54	Characterization of β^3 -irradiated polymethyl methacrylate by means of mechanical properties and positron annihilation lifetime spectroscopy. <i>Physical Review B</i> , 1999, 60, 3792-3798.	1.1	5

#	ARTICLE	IF	CITATIONS
55	Microstructural changes in the Al _{1-x} Ca _x Zn superplastic alloy studied by positron lifetime spectroscopy. Scripta Metallurgica Et Materialia, 1990, 24, 2225-2229.	1.0	4
56	Temperature dependence of positron trapping at grain boundaries. Journal of Physics Condensed Matter, 1997, 9, 6749-6759.	0.7	3
57	Correlation between nanohole volume and mechanical properties of amine-cured epoxy resin blended with poly(ethylene oxide). Polymers for Advanced Technologies, 2009, 20, 35-38.	1.6	3
58	Depth profiling and morphological characterization of AlN thin films deposited on Si substrates using a reactive sputter magnetron. EPJ Applied Physics, 2014, 67, 21301.	0.3	3
59	Interstitial oxygen related defects and nanovoids in Au implanted SiO_2 glass depth profiled by positron annihilation spectroscopy. Journal Physics D: Applied Physics, 2015, 48, 495302.	1.3	3
60	Effect of the composition and chemical aging in tung oil-styrene networks: Free volume and dynamic-mechanical properties. European Polymer Journal, 2017, 87, 231-240.	2.6	3
61	Positron and transmission electron microscopy study of precipitation phenomena in an Al _{1-x} Li _x Zr alloy. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1996, 73, 203-211.	0.7	2
62	Vacancy-solute interaction in magnesium alloy WE54 during artificial ageing: a positron annihilation spectroscopy study. International Journal of Materials Research, 2009, 100, 378-381.	0.1	2
63	Hamiltonian formulation for the positron trapping model. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1989, 11, 1113-1121.	0.4	1
64	Positron study of defects in a-Si _{1-x} C _x films produced by ion beam deposition method. Applied Surface Science, 2001, 177, 96-102.	3.1	1
65	Thermal formation of atomic vacancies in Cu-Zn . Scripta Materialia, 2006, 54, 437-440.	2.6	1
66	On the cure process in an epoxy-anhydride system. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 2423-2425.	0.8	1
67	A Microstructural Study of Acrylic-Modified Chitosan by Means of PALS and SAXS. Defect and Diffusion Forum, 0, 373, 265-268.	0.4	1
68	CHANGES IN THE MECHANICAL, MICRO-, AND NANO-STRUCTURAL PROPERTIES OF REINFORCED VULCANIZED NATURAL RUBBER COMPOUNDS: THEIR DEPENDENCE ON THE SiO ₂ /CB RATIO. Rubber Chemistry and Technology, 2021, , .	0.6	1
69	Directional response of a scintillation detector to gamma-rays. Journal of Radioanalytical and Nuclear Chemistry, 1990, 145, 5-10.	0.7	0
70	Hamiltonian formulation for the positron trapping model: An extended treatment. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1993, 15, 969-976.	0.4	0
71	Influence of the cure temperature and the accelerator content on the free volume in a DGEBA epoxy-anhydride-imidazole system. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 2426-2428.	0.8	0
72	Influence of the Crosslinking Content on the Structural Properties of Polybutadiene Rubbers with Different Isomeric Composition. Defect and Diffusion Forum, 0, 373, 269-273.	0.4	0