

Marcelo R Fontana

List of Publications by Year in descending order

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32
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times ranked

285
citing authors

#	ARTICLE	IF	CITATIONS
1	Ionic conductivity (Ag) in AgGeSe glasses. Solid State Ionics, 2005, 176, 505-512.	2.7	65
2	Crystallization processes of Ag-Ge-Se superionic glasses. Journal of Non-Crystalline Solids, 2003, 320, 151-167.	3.1	45
3	X-ray analysis of GeSeAg glasses. Journal of Non-Crystalline Solids, 2000, 273, 30-35.	3.1	44
4	Modelling of induction heating of carbon steel tubes: Mathematical analysis, numerical simulation and validation. Journal of Alloys and Compounds, 2012, 536, S564-S568.	5.5	38
5	Conductivity percolation transition of $\text{Ag}_x(\text{Ge}_{0.25}\text{Se}_{0.75})_{100-x}$ glasses. Journal of Non-Crystalline Solids, 2007, 353, 3314-3317.	3.1	22
6	Crystallization process on amorphous GeTeSb samples near to eutectic point Ge ₁₅ Te ₈₅ . Journal of Non-Crystalline Solids, 2009, 355, 2068-2073.	3.1	22
7	Structural considerations about the $(\text{Ge}_{0.25}\text{Se}_{0.75})_{100-x}\text{Ag}_x$ glasses. Journal of Non-Crystalline Solids, 2003, 332, 1-10.	3.1	19
8	Structure of chalcogenide glasses by neutron diffraction. Journal of Non-Crystalline Solids, 2007, 353, 729-732.	3.1	18
9	Transient liquid phase bonding of steel using an Fe-B interlayer. Journal of Materials Science, 2007, 42, 4044-4050.	3.7	16
10	Homogeneous and inhomogeneous models of $\text{Ag}_x(\text{Ge}_{0.25}\text{Se}_{0.75})_{100-x}$ bulk glasses. Physica B: Condensed Matter, 2007, 389, 77-82.	2.7	15
11	Influence of Cu addition in the crystallization of the superionic glass $(\text{Ge}_{25}\text{Se}_{75})_{75}\text{Ag}_{25}$. Journal of Non-Crystalline Solids, 2002, 304, 306-314.	3.1	11
12	Characterisation of thin films obtained by laser ablation of Ge ₂₈ Se ₆₀ Sb ₁₂ glasses. Journal of Physics and Chemistry of Solids, 2007, 68, 993-997.	4.0	11
13	Raman spectroscopy of chalcogenide thin films prepared by PLD. Journal of Alloys and Compounds, 2010, 495, 642-645.	5.5	11
14	Nanoscale intrinsic heterogeneities in Ag-Ge-Se glasses and their correlation with physical properties. Applied Surface Science, 2007, 254, 321-324.	6.1	9
15	Effective diffusion coefficient for Cu in steel joined by transient liquid phase bonding. Materials and Design, 2016, 92, 760-766.	7.0	9
16	Mechanisms controlling primary crystallisation of Ga ₂₀ Te ₈₀ glasses. Journal of Non-Crystalline Solids, 2007, 353, 2131-2142.	3.1	8
17	Compositional dependence of the optical properties on amorphous $\text{Ag}_x(\text{Ge}_{0.25}\text{Se}_{0.75})_{100-x}$ thin films. Journal of Non-Crystalline Solids, 2013, 377, 186-190.	3.1	8
18	Microstructural and mechanical characterizations of steel tubes joined by transient liquid phase bonding using an amorphous Fe-B-Si interlayer. Journal of Alloys and Compounds, 2014, 615, S18-S22.	5.5	8

#	ARTICLE	IF	CITATIONS
19	Temperature Dependence of Electrical Resistance in Ge-Sb-Te Thin Films. <i>Materials Research</i> , 2019, 22, .	1.3	7
20	Quenched GaTeFe alloys near the Ga ₂₀ Te ₈₀ composition. <i>Journal of Non-Crystalline Solids</i> , 1998, 231, 234-239.	3.1	6
21	AgGeSe-based bulk glasses: A survey of their fundamental properties. <i>Journal of Alloys and Compounds</i> , 2010, 495, 305-308.	5.5	5
22	Structural and Mössbauer study of (Sb _{0.70} Te _{0.30}) _{100-x} Sn _x alloys with x = 0, 2.5, 5.0 and 7.5. <i>Journal of Alloys and Compounds</i> , 2019, 795, 27-33.	5.5	5
23	Simulation of non-volatile memory cell using chalcogenide glasses. <i>Journal of Alloys and Compounds</i> , 2012, 536, S516-S521.	5.5	4
24	Transient liquid phase bonding of carbon steel tubes using a Cu interlayer: Characterization and comparison with amorphous Fe-B-Si interlayer bonds. <i>Journal of Alloys and Compounds</i> , 2014, 615, S13-S17.	5.5	4
25	Imaging of boron distribution in steel with neutron radiography and tomography. <i>Journal of Materials Science</i> , 2020, 55, 7927-7937.	3.7	4
26	Analyses of intrinsic inhomogeneity and metal segregation in samples of Ag-Ge-Se glasses. <i>Physica B: Condensed Matter</i> , 2009, 404, 2816-2818.	2.7	3
27	Indium local geometry in In-Sb-Te thin films using XANES and DFT calculations. <i>Applied Surface Science</i> , 2017, 425, 1066-1073.	6.1	3
28	The effect of adding a bit of Fe to Ag-Ge-Se system. <i>Hyperfine Interactions</i> , 2008, 182, 137-147.	0.5	2
29	Transient liquid phase bonding of carbon steel components using Ni-based foils – A comprehensive joint characterization. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 751, 51-61.	5.6	2
30	Non-equilibrium and crystalline phases on the Mg-Ga-Sn system. <i>Hyperfine Interactions</i> , 1994, 83, 245-252.	0.5	1
31	Mössbauer characterization of joints of steel pieces in transient liquid phase bonding experiences. <i>Hyperfine Interactions</i> , 2011, 203, 125-132.	0.5	1
32	Atomic and electronic structure of Sn _x Pb(100-x)Te. <i>Journal of Physics and Chemistry of Solids</i> , 1992, 53, 1101-1103.	4.0	0