

Filomena Viana

List of Publications by Year in descending order

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74
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74
docs citations

74
times ranked

863
citing authors

#	ARTICLE	IF	CITATIONS
1	Retrogression and re-ageing of 7075 aluminium alloy: microstructural characterization. Journal of Materials Processing Technology, 1999, 92-93, 54-59.	3.1	162
2	Improved dispersion of carbon nanotubes in aluminum nanocomposites. Composite Structures, 2014, 108, 992-1000.	3.1	74
3	Solid-state diffusion bonding of gamma-TiAl alloys using Ti/Al thin films as interlayers. Intermetallics, 2006, 14, 1151-1156.	1.8	67
4	Influence of dispersion/mixture time on mechanical properties of Al/CNTs nanocomposites. Composite Structures, 2015, 126, 114-122.	3.1	60
5	Diffusion bonding of TiAl using reactive Ni/Al nanolayers and Ti and Ni foils. Materials Chemistry and Physics, 2011, 128, 202-207.	2.0	58
6	Nanometric multilayers: A new approach for joining TiAl. Intermetallics, 2006, 14, 1157-1162.	1.8	57
7	Anisothermal solid-state reactions of Ni/Al nanometric multilayers. Intermetallics, 2011, 19, 350-356.	1.8	50
8	Diffusion bonding of TiAl using Ni/Al multilayers. Journal of Materials Science, 2010, 45, 4351-4357.	1.7	47
9	Aluminum and Nickel Matrix Composites Reinforced by CNTs: Dispersion/Mixture by Ultrasonication. Metals, 2017, 7, 279.	1.0	47
10	Joining of Superalloys to Intermetallics Using Nanolayers. Advanced Materials Research, 0, 59, 225-229.	0.3	39
11	Reaction zone formed during diffusion bonding of TiNi to Ti6Al4V using Ni/Ti nanolayers. Journal of Materials Science, 2013, 48, 7718-7727.	1.7	37
12	Multilayered interface in Ti/Macor [®] machinable glass-ceramic joints. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 301, 118-124.	2.6	34
13	Joining of TiAl to Steel by Diffusion Bonding with Ni/Ti Reactive Multilayers. Metals, 2016, 6, 96.	1.0	31
14	Diffusion bonding of gamma-TiAl using modified Ti/Al nanolayers. Journal of Alloys and Compounds, 2012, 536, S424-S427.	2.8	29
15	Microstructure of Reaction Zone Formed During Diffusion Bonding of TiAl with Ni/Al Multilayer. Journal of Materials Engineering and Performance, 2012, 21, 678-682.	1.2	26
16	Reactive Commercial Ni/Al Nanolayers for Joining Lightweight Alloys. Journal of Materials Engineering and Performance, 2014, 23, 1536-1543.	1.2	25
17	Microstructural Characterization of Aluminum-Carbon Nanotube Nanocomposites Produced Using Different Dispersion Methods. Microscopy and Microanalysis, 2016, 22, 725-732.	0.2	24
18	EBSD Analysis of Metal Matrix Nanocomposite Microstructure Produced by Powder Metallurgy. Nanomaterials, 2019, 9, 878.	1.9	22

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19	Joining Ti-47Al-2Cr-2Nb with a Ti/(Cu,Ni)/Ti clad-laminated braze alloy. <i>Journal of Materials Science</i> , 2003, 38, 2409-2414.	1.7	21
20	Abrasion wear behaviour of alloyed and chilled cast irons. <i>Wear</i> , 2011, 270, 535-540.	1.5	20
21	As-cast titanium aluminides microstructure modification. <i>Materials Research</i> , 1999, 2, 191-195.	0.6	17
22	Reaction-Assisted Diffusion Bonding of Advanced Materials. <i>Defect and Diffusion Forum</i> , 2010, 297-301, 972-977.	0.4	17
23	Reaction-assisted diffusion bonding of TiAl alloy to steel. <i>Materials Chemistry and Physics</i> , 2016, 171, 73-82.	2.0	17
24	The effect of brazing temperature on the titanium/glass-ceramic bonding. <i>Journal of Materials Processing Technology</i> , 1999, 92-93, 102-106.	3.1	16
25	Cold rolled versus sputtered Ni/Ti multilayers for reaction-assisted diffusion bonding. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2016, 60, 337-344.	1.3	14
26	TEM and HRTEM Characterization of TiAl Diffusion Bonds Using Ni/Al Nanolayers. <i>Microscopy and Microanalysis</i> , 2015, 21, 132-139.	0.2	13
27	Ni/Al Multilayers Produced by Accumulative Roll Bonding and Sputtering. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 4394-4401.	1.2	13
28	Raman spectroscopy fingerprint of stainless steel-MWCNTs nanocomposite processed by ball-milling. <i>AIP Advances</i> , 2018, 8, .	0.6	13
29	Microstructure and Strength of $\hat{3}$ -TiAl Alloy/Inconel 718 Brazed Joints. <i>Materials Science Forum</i> , 0, 730-732, 835-840.	0.3	12
30	TiAl diffusion bonding using Ni/Ti multilayers. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2017, 61, 1267-1273.	1.3	12
31	Characterization of Ni@CNTs Nanocomposites Produced by Ball-Milling. <i>Metals</i> , 2020, 10, 2.	1.0	12
32	Microstructural Characterization of Dissimilar Titanium Alloys Joints Using Ni/Al Nanolayers. <i>Metals</i> , 2018, 8, 715.	1.0	10
33	Joining Ti-47Al-2Cr-2Nb with a Ti-Ni Braze Alloy. <i>Materials Science Forum</i> , 2004, 455-456, 880-884.	0.3	9
34	TEM Characterization of As-Deposited and Annealed Ni/Al Multilayer Thin Film. <i>Microscopy and Microanalysis</i> , 2010, 16, 662-669.	0.2	9
35	Microstructural Characterization of Carbon Nanotubes (CNTs)-Reinforced Nickel Matrix Nanocomposites. <i>Microscopy and Microanalysis</i> , 2019, 25, 180-186.	0.2	9
36	Microstructural Characterisation of $\hat{3}$ -TiAl Joints. <i>Key Engineering Materials</i> , 2002, 230-232, 27-30.	0.4	8

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37	Diffusion Bonding of TiAl to Ti6Al4V Using Nanolayers. Journal of Materials Engineering and Performance, 2018, 27, 5064-5068.	1.2	8
38	Highly porous Ti as a bone substitute: Triboelectrochemical characterization of highly porous Ti against Ti alloy under fretting-corrosion conditions. Corrosion Science, 2021, 190, 109696.	3.0	8
39	Effect of Annealing Conditions on the Grain Size of Nanocrystalline Copper Thin Films. Materials Science Forum, 0, 587-588, 483-487.	0.3	7
40	Microstructural Characterization of Diffusion Bonds Assisted by Ni/Ti Nanolayers. Journal of Materials Engineering and Performance, 2016, 25, 3245-3251.	1.2	7
41	Preliminary tribocorrosion evaluation of bio-functionalized Ti doped with Ca-P-Sr. Materials Letters, 2021, 283, 128775.	1.3	7
42	Joining of Gamma-Based Titanium Aluminides – A Review. Materials Science Forum, 2006, 514-516, 483-489.	0.3	5
43	Diffusion Brazing of a $\hat{\text{T}}^3\text{-TiAl}$ Alloy Using Tini 67: Microstructural Evolution of the Interface. Materials Science Forum, 2008, 587-588, 425-429.	0.3	5
44	The Influence of the Processing Temperature on the Microstructure of $\hat{\text{T}}^3\text{-TiAl}$ Joints Brazed with a Ti-15Cu-15Ni Alloy. Materials Science Forum, 2003, 426-432, 4159-4166.	0.3	4
45	Joining of TiAl Using a Thin Multilayer. Materials Science Forum, 2006, 514-516, 1323-1327.	0.3	4
46	TEM and SEM in-situ annealing of nanocrystalline copper thin films. Microscopy and Microanalysis, 2008, 14, 49-52.	0.2	4
47	Intermixing in Ni/Al multilayer thin films. Microscopy and Microanalysis, 2009, 15, 75-76.	0.2	4
48	Effect of dispersion method in the production of Al-CNTs nanocomposites. Microscopy and Microanalysis, 2016, 22, 52-53.	0.2	4
49	Numerical Simulation and Defect Identification in the Casting of Co-Cr Alloy. Metals, 2022, 12, 351.	1.0	4
50	Zr Bearing $\hat{\text{T}}^3\text{-TiAl}$ Induction Melted. Key Engineering Materials, 2000, 188, 45-54.	0.4	3
51	Assessing the Influence of Heat Treatments on $\hat{\text{T}}^3\text{-TiAl}$ Joints. Materials Science Forum, 2006, 514-516, 1333-1337.	0.3	3
52	Bonding $\hat{\text{T}}^3\text{-TiAl}$ Alloys Using Ti/Al Nanolayers Doped with Ag. Materials Science Forum, 2008, 587-588, 488-491.	0.3	3
53	Microstructure and reaction mechanisms at $\hat{\text{T}}^3\text{-TiAl}$ brazed interfaces. Microscopy and Microanalysis, 2009, 15, 67-68.	0.2	3
54	Ni/Ti and Ni/Al Laminated Composites Produced by ARB and Annealing: Microstructural Aspects. Microscopy and Microanalysis, 2015, 21, 23-24.	0.2	3

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55	Seedless Cu Electroplating on Co-W Thin Films in Low pH Electrolyte: Early Stages of Formation. <i>Nanomaterials</i> , 2021, 11, 1914.	1.9	3
56	TEM and HRTEM characterization of nanocomposites reinforced with carbon nanotubes. <i>Microscopy and Microanalysis</i> , 2015, 21, 86-87.	0.2	2
57	Thermal Stability of Nanocrystalline Copper Thin Films. <i>Microscopy and Microanalysis</i> , 2007, 13, .	0.2	1
58	Microstructure Evolution with Direct Current Density on Electrodeposited Copper Films. <i>Microscopy and Microanalysis</i> , 2015, 21, 45-46.	0.2	1
59	Characterization of Ni/Ti interlayer foil to assist diffusion bonding.. <i>Microscopy and Microanalysis</i> , 2015, 21, 120-121.	0.2	1
60	Effect of functionalization and size of CNTs in the production of nanocomposites. <i>Microscopy and Microanalysis</i> , 2017, 23, 1942-1943.	0.2	1
61	Microstructure evolution during Ni/Al multilayer reactions. , 2008, , 487-488.		1
62	Thermo-Mechanical Processing of a Ti 49.5Al 1.25Ag Alloy. <i>Key Engineering Materials</i> , 2002, 230-232, 23-26.	0.4	0
63	In-Situ TEM Annealing of Nanocrystalline Copper Thin Films. <i>Microscopy and Microanalysis</i> , 2007, 13, .	0.2	0
64	Effect of Temperature in the Evolution of Ni/Al Nanolayers. <i>Microscopy and Microanalysis</i> , 2008, 14, 41-42.	0.2	0
65	Joining of TiAl alloys using Ni/Al multilayers. <i>Microscopy and Microanalysis</i> , 2009, 15, 73-74.	0.2	0
66	Characterization of nanolayers at TiAl diffusion bonds. <i>Microscopy and Microanalysis</i> , 2015, 21, 96-97.	0.2	0
67	Microstructural Characterization of CNT/Al Nanocomposites Produced by Hot Extrusion. <i>Microscopy and Microanalysis</i> , 2015, 21, 53-54.	0.2	0
68	Microstructural characterization of copper films produced by electrodeposition. <i>Microscopy and Microanalysis</i> , 2015, 21, 98-99.	0.2	0
69	Diffusion Brazing of Ti6Al4V and $\hat{1}^3$ -TiAl alloy with Al/Cu multifoils fillers. <i>Microscopy and Microanalysis</i> , 2015, 21, 124-125.	0.2	0
70	Characterization of TiAl diffusion bonds using Ni/Ti nanolayers. <i>Microscopy and Microanalysis</i> , 2016, 22, 54-55.	0.2	0
71	One-Step Synthesis and Characterization of a Nanocomposite Based on Carbon Nanotubes/Aluminum and Its Reinforcement Effect on the Metal Matrix. <i>Journal of Materials Science and Engineering B</i> , 2015, 5, .	0.2	0