

SÃ³nia Simões

List of Publications by Year in descending order

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Version: 2024-02-01

72
papers

1,229
citations

430874

18
h-index

414414

32
g-index

76
all docs

76
docs citations

76
times ranked

1050
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>In situ</i> TEM study of grain growth in nanocrystalline copper thin films. <i>Nanotechnology</i> , 2010, 21, 145701.	2.6	115
2	Improved dispersion of carbon nanotubes in aluminum nanocomposites. <i>Composite Structures</i> , 2014, 108, 992-1000.	5.8	74
3	Production of intermetallic compounds from Ti/Al and Ni/Al multilayer thin films—A comparative study. <i>Journal of Alloys and Compounds</i> , 2009, 484, 335-340.	5.5	67
4	Multilayered ZrN/CrN coatings with enhanced thermal and mechanical properties. <i>Journal of Alloys and Compounds</i> , 2019, 776, 679-690.	5.5	64
5	Influence of dispersion/mixture time on mechanical properties of Al—CNTs nanocomposites. <i>Composite Structures</i> , 2015, 126, 114-122.	5.8	60
6	Diffusion bonding of TiAl using reactive Ni/Al nanolayers and Ti and Ni foils. <i>Materials Chemistry and Physics</i> , 2011, 128, 202-207.	4.0	58
7	Anisothermal solid-state reactions of Ni/Al nanometric multilayers. <i>Intermetallics</i> , 2011, 19, 350-356.	3.9	50
8	The influence of deposition conditions and bilayer thickness on physical-mechanical properties of CA-PVD multilayer ZrN/CrN coatings. <i>Materials Characterization</i> , 2018, 140, 189-196.	4.4	50
9	Recent Advances in EBSD Characterization of Metals. <i>Metals</i> , 2020, 10, 1097.	2.3	48
10	Diffusion bonding of TiAl using Ni/Al multilayers. <i>Journal of Materials Science</i> , 2010, 45, 4351-4357.	3.7	47
11	Aluminum and Nickel Matrix Composites Reinforced by CNTs: Dispersion/Mixture by Ultrasonication. <i>Metals</i> , 2017, 7, 279.	2.3	47
12	Joining of Superalloys to Intermetallics Using Nanolayers. <i>Advanced Materials Research</i> , 0, 59, 225-229.	0.3	39
13	Reaction zone formed during diffusion bonding of TiNi to Ti6Al4V using Ni/Ti nanolayers. <i>Journal of Materials Science</i> , 2013, 48, 7718-7727.	3.7	37
14	Joining of TiAl to Steel by Diffusion Bonding with Ni/Ti Reactive Multilayers. <i>Metals</i> , 2016, 6, 96.	2.3	31
15	Microstructure of Reaction Zone Formed During Diffusion Bonding of TiAl with Ni/Al Multilayer. <i>Journal of Materials Engineering and Performance</i> , 2012, 21, 678-682.	2.5	26
16	Reactive Commercial Ni/Al Nanolayers for Joining Lightweight Alloys. <i>Journal of Materials Engineering and Performance</i> , 2014, 23, 1536-1543.	2.5	25
17	Microstructural Characterization of Aluminum-Carbon Nanotube Nanocomposites Produced Using Different Dispersion Methods. <i>Microscopy and Microanalysis</i> , 2016, 22, 725-732.	0.4	24
18	EBSD Analysis of Metal Matrix Nanocomposite Microstructure Produced by Powder Metallurgy. <i>Nanomaterials</i> , 2019, 9, 878.	4.1	22

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19	Recent Progress in the Joining of Titanium Alloys to Ceramics. <i>Metals</i> , 2018, 8, 876.	2.3	21
20	Strengthening Mechanisms in Carbon Nanotubes Reinforced Metal Matrix Composites: A Review. <i>Metals</i> , 2021, 11, 1613.	2.3	18
21	Reaction-Assisted Diffusion Bonding of Advanced Materials. <i>Defect and Diffusion Forum</i> , 2010, 297-301, 972-977.	0.4	17
22	Reaction-assisted diffusion bonding of TiAl alloy to steel. <i>Materials Chemistry and Physics</i> , 2016, 171, 73-82.	4.0	17
23	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.	2.5	14
24	TEM and HRTEM Characterization of TiAl Diffusion Bonds Using Ni/Al Nanolayers. <i>Microscopy and Microanalysis</i> , 2015, 21, 132-139.	0.4	13
25	Ni/Al Multilayers Produced by Accumulative Roll Bonding and Sputtering. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 4394-4401.	2.5	13
26	Raman spectroscopy fingerprint of stainless steel-MWCNTs nanocomposite processed by ball-milling. <i>AIP Advances</i> , 2018, 8, .	1.3	13
27	Joining of ³ TiAl Alloy to Ni-Based Superalloy Using Ag-Cu Sputtered Coated Ti Brazing Filler Foil. <i>Metals</i> , 2018, 8, 723.	2.3	13
28	Effect of Morphology and Structure of MWCNTs on Metal Matrix Nanocomposites. <i>Materials</i> , 2020, 13, 5557.	2.9	13
29	TiAl diffusion bonding using Ni/Ti multilayers. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2017, 61, 1267-1273.	2.5	12
30	Characterization of Ni@CNTs Nanocomposites Produced by Ball-Milling. <i>Metals</i> , 2020, 10, 2.	2.3	12
31	Preliminary tribo-electrochemical and biological responses of the Ti-TiB-TiC _x in-situ composites intended for load-bearing biomedical implants. <i>Journal of Alloys and Compounds</i> , 2022, 896, 162965.	5.5	12
32	Microstructural Characterization of Dissimilar Titanium Alloys Joints Using Ni/Al Nanolayers. <i>Metals</i> , 2018, 8, 715.	2.3	10
33	Investigation on the Strengthening Mechanisms of Nickel Matrix Nanocomposites. <i>Nanomaterials</i> , 2021, 11, 1426.	4.1	10
34	TEM Characterization of As-Deposited and Annealed Ni/Al Multilayer Thin Film. <i>Microscopy and Microanalysis</i> , 2010, 16, 662-669.	0.4	9
35	Multiwall carbon nanotubes filled with Al ₄ C ₃ : Spectroscopic signatures for electron-phonon coupling due to doping process. <i>Carbon</i> , 2017, 124, 348-356.	10.3	9
36	Diffusion Bonding and Brazing of Advanced Materials. <i>Metals</i> , 2018, 8, 959.	2.3	9

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37	Microstructural Characterization of Carbon Nanotubes (CNTs)-Reinforced Nickel Matrix Nanocomposites. <i>Microscopy and Microanalysis</i> , 2019, 25, 180-186.	0.4	9
38	Joining Alumina to Titanium Alloys Using Ag-Cu Sputter-Coated Ti Brazing Filler. <i>Materials</i> , 2020, 13, 4802.	2.9	9
39	Diffusion Bonding of TiAl to Ti6Al4V Using Nanolayers. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 5064-5068.	2.5	8
40	Strengthening Mechanisms of Aluminum Matrix Nanocomposites Reinforced with CNTs Produced by Powder Metallurgy. <i>Metals</i> , 2021, 11, 1711.	2.3	8
41	Effect of Annealing Conditions on the Grain Size of Nanocrystalline Copper Thin Films. <i>Materials Science Forum</i> , 0, 587-588, 483-487.	0.3	7
42	Microstructural Characterization of Diffusion Bonds Assisted by Ni/Ti Nanolayers. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 3245-3251.	2.5	7
43	Diffusion Bonding of Ti6Al4V to Al ₂ O ₃ Using Ni/Ti Reactive Multilayers. <i>Metals</i> , 2021, 11, 655.	2.3	6
44	Joining Ti6Al4V to Alumina by Diffusion Bonding Using Titanium Interlayers. <i>Metals</i> , 2021, 11, 1728.	2.3	6
45	TEM and SEM in-situ annealing of nanocrystalline copper thin films. <i>Microscopy and Microanalysis</i> , 2008, 14, 49-52.	0.4	4
46	Intermixing in Ni/Al multilayer thin films. <i>Microscopy and Microanalysis</i> , 2009, 15, 75-76.	0.4	4
47	Effect of dispersion method in the production of Al-CNTs nanocomposites. <i>Microscopy and Microanalysis</i> , 2016, 22, 52-53.	0.4	4
48	Electrical and Tensile Properties of Carbon Nanotubes-Reinforced Aluminum Alloy 6101 Wire. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 4837-4841.	0.9	4
49	Characterization of multilayered ZrN/CrN coatings deposited by vacuum arc technology. , 2017, , .		4
50	Ni/Ti and Ni/Al Laminated Composites Produced by ARB and Annealing: Microstructural Aspects. <i>Microscopy and Microanalysis</i> , 2015, 21, 23-24.	0.4	3
51	Joining of TiAl Alloy Using Novel Ag-Cu Sputtered Coated Ti Brazing Filler. <i>Microscopy and Microanalysis</i> , 2019, 25, 192-195.	0.4	3
52	Effect of Deposition Parameters on the Reactivity of Al/Ni Multilayer Thin Films. <i>Coatings</i> , 2020, 10, 721.	2.6	3
53	Seedless Cu Electroplating on Co-W Thin Films in Low pH Electrolyte: Early Stages of Formation. <i>Nanomaterials</i> , 2021, 11, 1914.	4.1	3
54	Heat-Treated Ni-CNT Nanocomposites Produced by Powder Metallurgy Route. <i>Materials</i> , 2021, 14, 5458.	2.9	3

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55	TEM Characterization of a Mould Steel in Pre-hardened Condition and After Subsequent Heat Treatments. <i>Microscopy and Microanalysis</i> , 2015, 21, 51-52.	0.4	2
56	TEM and HRTEM characterization of nanocomposites reinforced with carbon nanotubes. <i>Microscopy and Microanalysis</i> , 2015, 21, 86-87.	0.4	2
57	Morphology, Structure and Thermal Properties of Multilayer ZrN/CrN Coatings. , 2018, , .		2
58	Joining of Zirconia to Ti6Al4V Using Ag-Cu Sputter-Coated Ti Brazing Filler. <i>Metals</i> , 2022, 12, 358.	2.3	2
59	Thermal Stability of Nanocrystalline Copper Thin Films. <i>Microscopy and Microanalysis</i> , 2007, 13, .	0.4	1
60	Characterization of Ni/Ti interlayer foil to assist diffusion bonding.. <i>Microscopy and Microanalysis</i> , 2015, 21, 120-121.	0.4	1
61	Effect of functionalization and size of CNTs in the production of nanocomposites. <i>Microscopy and Microanalysis</i> , 2017, 23, 1942-1943.	0.4	1
62	HIGH-TEMPERATURE IN SITU DSC STUDIES OF MULTILAYER ZrN/CrN COATINGS OBTAINED BY CA-PVD. <i>High Temperature Material Processes</i> , 2019, 23, 221-237.	0.6	1
63	In-Situ TEM Annealing of Nanocrystalline Copper Thin Films. <i>Microscopy and Microanalysis</i> , 2007, 13, .	0.4	0
64	Effect of Temperature in the Evolution of Ni/Al Nanolayers. <i>Microscopy and Microanalysis</i> , 2008, 14, 41-42.	0.4	0
65	Joining of TiAl alloys using Ni/Al multilayers. <i>Microscopy and Microanalysis</i> , 2009, 15, 73-74.	0.4	0
66	Microstructural Characterization of CNT/Al Nanocomposites Produced by Hot Extrusion. <i>Microscopy and Microanalysis</i> , 2015, 21, 53-54.	0.4	0
67	Diffusion Brazing of Ti6Al4V and $\hat{1}^3$ -TiAl alloy with Al/Cu multifoils fillers. <i>Microscopy and Microanalysis</i> , 2015, 21, 124-125.	0.4	0
68	Characterization of TiAl diffusion bonds using Ni/Ti nanolayers. <i>Microscopy and Microanalysis</i> , 2016, 22, 54-55.	0.4	0
69	Advances in Microstructural Characterization of Metals by EBSD. <i>Metals</i> , 2021, 11, 1452.	2.3	0
70	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, .	0.3	0
71	Study of Advanced Nanoscale ZrN/CrN Multilayer Coatings. <i>East European Journal of Physics</i> , 2019, , .	0.8	0
72	Joining of Ti6Al4V to Al ₂ O ₃ Using Nanomultilayers. <i>Nanomaterials</i> , 2022, 12, 706.	4.1	0