

Adele CarradÃ²

List of Publications by Year in descending order

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papers

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docs citations

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times ranked

870
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#	ARTICLE	IF	CITATIONS
1	Metal/polymer/metal hybrid systems: Towards potential formability applications. <i>Composite Structures</i> , 2011, 93, 715-721.	3.1	80
2	Structural, Microstructural, and Residual Stress Investigations of Plasma-Sprayed Hydroxyapatite on Ti-6Al-4 V. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 561-565.	4.0	52
3	Harnessing the Multifunctionality in Nature: A Bioactive Agent Release System with Self-antimicrobial and Immunomodulatory Properties. <i>Advanced Healthcare Materials</i> , 2015, 4, 2026-2036.	3.9	52
4	Metal-polymer-metal sandwiches with local metal reinforcements: A study on formability by deep drawing and bending. <i>Composite Structures</i> , 2011, 94, 1-7.	3.1	47
5	Nanoporous hydroxyapatite/sodium titanate bilayer on titanium implants for improved osteointegration. <i>Dental Materials</i> , 2017, 33, 321-332.	1.6	41
6	Mechanical properties and forming behaviour of laminated steel/polymer sandwich systems with local inlays - Part 1. <i>Composite Structures</i> , 2014, 118, 112-120.	3.1	38
7	Influence of corona treatment on adhesion and mechanical properties in metal/polymer/metal systems. <i>Journal of Applied Polymer Science</i> , 2011, 120, 3709-3715.	1.3	36
8	Residual stresses evolution in Cu tubes, cold drawn with tilted dies - Neutron diffraction measurements and finite element simulation. <i>Materials and Design</i> , 2016, 107, 163-170.	3.3	28
9	Investigation on the Residual Stress State of Drawn Tubes by Numerical Simulation and Neutron Diffraction Analysis. <i>Materials</i> , 2013, 6, 5118-5130.	1.3	27
10	Nanocrystalline spin coated sol-gel hydroxyapatite thin films on Ti substrate: Towards potential applications for implants. <i>Solid State Sciences</i> , 2010, 12, 1047-1050.	1.5	26
11	Novel Alkali Activation of Titanium Substrates To Grow Thick and Covalently Bound PMMA Layers. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 5967-5977.	4.0	26
12	Consolidation by spark plasma sintering of polyimide and polyetheretherketone. <i>Journal of Applied Polymer Science</i> , 2014, 131, n/a-n/a.	1.3	24
13	Mechanical properties and forming behaviour of laminated steel/polymer sandwich systems with local inlays - Part 2: Stretching and deep drawing. <i>Composite Structures</i> , 2017, 160, 1084-1094.	3.1	23
14	Determination of residual stresses in materials and industrial components by neutron diffraction. <i>Measurement Science and Technology</i> , 1999, 10, R56-R73.	1.4	22
15	Production of Customized High-Strength Hybrid Sandwich Structures. <i>Advanced Materials Research</i> , 2010, 137, 81-128.	0.3	21
16	Microstructure and mechanical characteristics of hydroxyapatite coatings on Ti/TiN/Si substrates synthesized by pulsed laser deposition. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 102, 629-640.	1.1	20
17	Press Joining Rolling Process for Hybrid Systems. <i>Key Engineering Materials</i> , 0, 425, 271-281.	0.4	18
18	Precision tube production: Influencing the eccentricity and residual stresses by tilting and shifting. <i>Journal of Materials Processing Technology</i> , 2015, 222, 155-162.	3.1	17

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19	Residual stress distribution in seamless tubes determined experimentally and by FEM. <i>Procedia Engineering</i> , 2011, 10, 3080-3085.	1.2	16
20	Spark plasma sintering technology applied to polymer-based composites for structural light weighting. <i>Powder Metallurgy</i> , 2015, 58, 87-90.	0.9	16
21	Study of the gradual interface between hydroxyapatite thin films PLD grown onto Ti-controlled sublayers. <i>Applied Surface Science</i> , 2007, 254, 1150-1154.	3.1	15
22	Nano-crystalline pulsed laser deposition hydroxyapatite thin films on Ti substrate for biomedical application. <i>Journal of Coatings Technology Research</i> , 2011, 8, 749-755.	1.2	13
23	Biomimetic calcium phosphate produced by an auto-catalytic route on stainless steel 316L and bio-inert polyolefin. <i>RSC Advances</i> , 2013, 3, 11255.	1.7	13
24	Alternative technique for calcium phosphate coating on titanium alloy implants. <i>Biomatter</i> , 2014, 4, e28534.	2.6	13
25	Multiscale mechanical characterization of hybrid Ti/PMMA layered materials. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 532, 244-251.	2.3	13
26	Development of Residual Stresses and Texture in Drawn Copper Tubes. <i>Advanced Engineering Materials</i> , 2013, 15, 469-475.	1.6	12
27	Coupled Electro-Thermo-Mechanical Finite Element Modeling of the Spark Plasma Sintering Technique. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2016, 47, 1263-1273.	1.0	12
28	Resin-free three-layered Ti/PMMA/Ti sandwich materials: Adhesion and formability study. <i>Composite Structures</i> , 2019, 218, 107-119.	3.1	12
29	Neutron Stress Imaging of Drawn Copper Tube: Comparison with Finite-Element Model. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2008, 39, 3149-3154.	1.1	11
30	Nanocrystalline γ -Al ₂ O ₃ thin film deposited by magnetron sputtering (MS) at low temperature. <i>Journal of Coatings Technology Research</i> , 2010, 7, 515-519.	1.2	11
31	Optimization of the spark plasma sintering processing parameters affecting the properties of polyimide. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	11
32	Tailored Sandwich Structures in the Focus of Research. <i>Materials and Manufacturing Processes</i> , 2009, 24, 1150-1154.	2.7	10
33	Lightweight titanium/polymer/titanium sandwich sheet for technical and biomedical application. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2014, 45, 1084-1091.	0.5	10
34	Three-layered sandwich material for lightweight applications. <i>Emerging Materials Research</i> , 2014, 3, 130-135.	0.4	10
35	Impact behaviour of 3-layered metal-polymer-metal sandwich panels. <i>Composite Structures</i> , 2015, 133, 140-147.	3.1	10
36	Consolidation by spark plasma sintering (SPS) of polyetheretherketone. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	1.3	10

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37	Neutron and synchrotron evaluation of residual stresses in coatings. Journal of Neutron Research, 2001, 9, 193-200.	0.4	8
38	Characterisation of Microstructure and Residual Stresses in Hydroxyapatite Coatings on Titanium Prostheses. Journal of Neutron Research, 2004, 12, 117-122.	0.4	7
39	Structural and mechanical investigations of magnetron sputtering TiO ₂ /Ti/TiN multilayer films on Si(100) substrate. Journal of Coatings Technology Research, 2010, 7, 821-829.	1.2	7
40	Evolution of texture in precision seamless tubes investigated by synchrotron and neutron radiation measurement. Materials Characterization, 2019, 151, 582-589.	1.9	7
41	Adhesion Behavior of Ti-PMMA-Ti Sandwiches for Biomedical Applications. Jom, 2022, 74, 96-101.	0.9	7
42	A Perspective of Pulsed Laser Deposition (PLD) in Surface Engineering: Alumina Coatings and Substrates. Key Engineering Materials, 2008, 384, 185-212.	0.4	6
43	Calcium phosphate coating on Ti6Al4V by autocatalytic route. Bioinspired, Biomimetic and Nanobiomaterials, 2012, 1, 221-228.	0.7	6
44	Multilayer Roll-Bonded Sandwich: Processing, Mechanical Performance, and Bioactive Behavior. Jom, 2012, 64, 514-519.	0.9	6
45	How alkali-activated Ti surfaces affect the growth of tethered PMMA chains: a close-up study on the PMMA thickness and surface morphology. Pure and Applied Chemistry, 2019, 91, 1687-1694.	0.9	6
46	Synchrotron Evaluation of Residual Stress in Palladium Alloy Substrate. Materials Science Forum, 2002, 404-407, 335-340.	0.3	5
47	Metal-Polymer-Metal Laminates for Lightweight Application. Key Engineering Materials, 0, 684, 323-334.	0.4	5
48	Integrated computational material engineering model development for tube drawing process. Procedia Manufacturing, 2018, 15, 287-293.	1.9	5
49	Neutron Diffraction Measurements for the Determination of Residual Stress in Ti6Al4V Welded Plates. Materials Science Forum, 2000, 347-349, 684-0.	0.3	4
50	Microstructural and Mechanical Investigations on Porcelain-Fused-to-Metal in Multilayer System. Advanced Engineering Materials, 2010, 12, B122.	1.6	4
51	Influence of heat treatment on Ti6Al4V for biomimetic biolayer. Bioinspired, Biomimetic and Nanobiomaterials, 2012, 1, 173-182.	0.7	4
52	Effects of pressure on poly(ether-ether-ketone) (PEEK) sintering mechanisms. Journal of Applied Polymer Science, 2019, 136, 47645.	1.3	4
53	Multiscale Simulation Study on the Anisotropic Behavior of Seamless Copper Tubes Processed under Varied Conditions. Journal of Manufacturing Processes, 2020, 56, 258-270.	2.8	4
54	Tube Drawing with Tilted Die: Texture, Dislocation Density and Mechanical Properties. Metals, 2021, 11, 638.	1.0	4

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55	Forming Limit Diagram of Steel/Polymer/Steel Sandwich Systems for the Automotive Industry. , 2014, , 243-254.		4
56	Neutron diffraction measurements of residual stresses in metal matrix composite samples. Radiation Physics and Chemistry, 2001, 61, 575-577.	1.4	3
57	Variation of Residual Stresses in Drawn Copper Tubes. Materials Science Forum, 2008, 571-572, 21-26.	0.3	3
58	Pulsed Laser Deposition of Thin Coatings: Applications on Biomaterials. Materials Science Forum, 2010, 638-642, 530-535.	0.3	3
59	Forming Potential of Steel/Polymer/Steel Sandwich Composites with Local Plate Inserts. Materials Science Forum, 0, 706-709, 681-686.	0.3	3
60	Interface and in bulk residual stress analysis in biomedical systems by non-destructive techniques. Surface and Coatings Technology, 2014, 243, 10-14.	2.2	3
61	Noble metals role in autocatalytic phosphate coatings on TAV alloys. I.Ag functionalization of autocatalytic phosphate deposition on TAV alloys. Surface and Coatings Technology, 2015, 282, 171-179.	2.2	3
62	Energy Absorption Behavior of Metal/Polymer/Metal Sandwich Crash Structures. Key Engineering Materials, 2017, 746, 275-281.	0.4	3
63	Stability of PMMA-grafted/Ti hybrid biomaterial interface in corrosive media. Pure and Applied Chemistry, 2019, 91, 1617-1629.	0.9	3
64	Double Functionalization for the Design of Innovative Craniofacial Prostheses. Jom, 0, , .	0.9	3
65	Trends in Metal-Based Composite Biomaterials for Hard Tissue Applications. Jom, 2022, 74, 102-125.	0.9	3
66	A new methodology for the near-surface strain measurement on Pdâ€“Agâ€“Sn alloy. Applied Surface Science, 2010, 256, 6340-6344.	3.1	2
67	Development of Bioactive Hydroxyapatite Coatings on Titanium Alloys. Key Engineering Materials, 2012, 533, 183-193.	0.4	2
68	Experimental Analysis and Numerical Simulation at Metal-Ceramic Interface. Materials Science Forum, 2003, 426-432, 3963-3968.	0.3	1
69	Nanocrystalline Thin Ceramic Films Synthesised by Pulsed Laser Deposition and Magnetron Sputtering on Metal Substrates for Medical Applications. , 0, , .		1
70	Residual stress distribution in ceramic/metal systems by nondestructive techniques. Procedia Engineering, 2011, 10, 3074-3079.	1.2	1
71	Residual Stress Measurements at the Metal/Ceramic Interface Using Modelling of Neutron Diffraction Spectrometer. , 2002, , 487-494.		1
72	Designing maxillofacial prostheses for bone reconstruction: an overview. Emerging Materials Research, 2022, 11, 176-184.	0.4	1

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73	Complementarity of Various Diffraction Techniques Applied to Characterisation of Residual Stress in a Palladium Alloy. <i>Journal of Neutron Research</i> , 2004, 12, 93-98.	0.4	0
74	Synchrotron Evaluation of Residual Stress in a Leucite Reinforced Glass Ceramic. <i>Materials Science Forum</i> , 2005, 490-491, 527-532.	0.3	0
75	Comparative Studies of Textured Pulsed Laser Deposition and Sol-Gel Growth of Thin Hydroxyapatite Layers on Titanium Substrates. <i>Materials Science Forum</i> , 2006, 524-525, 885-890.	0.3	0