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List of Publications by Year
in descending order

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75 papers	968 citations	516215 16 h-index	552369 26 g-index
79 all docs	79 docs citations	79 times ranked	870 citing authors

#	Article	IF	Citations
1	Adhesion Behavior of Tiâ€“PMMAâ€“Ti Sandwiches for Biomedical Applications. Jom, 2022, 74, 96-101.	0.9	7
2	Designing maxillofacial prostheses for bone reconstruction: an overview. Emerging Materials Research, 2022, 11, 176-184.	0.4	1
3	Trends in Metal-Based Composite Biomaterials for Hard Tissue Applications. Jom, 2022, 74, 102-125.	0.9	3
4	Tube Drawing with Tilted Die: Texture, Dislocation Density and Mechanical Properties. Metals, 2021, 11, 638.	1.0	4
5	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
6	Stability of PMMA-grafted/Ti hybrid biomaterial interface in corrosive media. Pure and Applied Chemistry, 2019, 91, 1617-1629.	0.9	3
7	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
8	Resin-free three-layered Ti/PMMA/Ti sandwich materials: Adhesion and formability study. Composite Structures, 2019, 218, 107-119.	3.1	12
9	Evolution of texture in precision seamless tubes investigated by synchrotron and neutron radiation measurement. Materials Characterization, 2019, 151, 582-589.	1.9	7
10	Effects of pressure on poly(etherâ€etherâ€ketone) (PEEK) sintering mechanisms. Journal of Applied Polymer Science, 2019, 136, 47645.	1.3	4
11	Novel Alkali Activation of Titanium Substrates To Grow Thick and Covalently Bound PMMA Layers. ACS Applied Materials & Interfaces, 2018, 10, 5967-5977.	4.0	26
12	Integrated computational material engineering model development for tube drawing process. Procedia Manufacturing, 2018, 15, 287-293.	1.9	5
13	Nanoporous hydroxyapatite/sodium titanate bilayer on titanium implants for improved osteointegration. Dental Materials, 2017, 33, 321-332.	1.6	41
14	Consolidation by spark plasma sintering (<scp>SPS</scp>) of polyetheretherketone. Journal of Applied Polymer Science, 2017, 134, .	1.3	10
15	Multiscale mechanical characterization of hybrid Ti/PMMA layered materials. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 532, 244-251.	2.3	13
16	Energy Absorption Behavior of Metal/Polymer/Metal Sandwich Crash Structures. Key Engineering Materials, 2017, 746, 275-281.	0.4	3
17	Mechanical properties and forming behaviour of laminated steel/polymer sandwich systems with local inlays â€“ Part 2: Stretching and deep drawing. Composite Structures, 2017, 160, 1084-1094.	3.1	23
18	Residual stresses evolution in Cu tubes, cold drawn with tilted dies â€“ Neutron diffraction measurements and finite element simulation. Materials and Design, 2016, 107, 163-170.	3.3	28

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19	Coupled Electro-Thermo-Mechanical Finite Element Modeling of the Spark Plasma Sintering Technique. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2016, 47, 1263-1273.	1.0	12
20	Optimization of the spark plasma sintering processing parameters affecting the properties of polyimide. Journal of Applied Polymer Science, 2015, 132, .	1.3	11
21	Harnessing the Multifunctionality in Nature: A Bioactive Agent Release System with Selfâ€Antimicrobial and Immunomodulatory Properties. Advanced Healthcare Materials, 2015, 4, 2026-2036.	3.9	52
22	Spark plasma sintering technology applied to polymer-based composites for structural light weighting. Powder Metallurgy, 2015, 58, 87-90.	0.9	16
23	Impact behaviour of 3-layered metal-polymer-metal sandwich panels. Composite Structures, 2015, 133, 140-147.	3.1	10
24	Precision tube production: Influencing the eccentricity and residual stresses by tilting and shifting. Journal of Materials Processing Technology, 2015, 222, 155-162.	3.1	17
25	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
26	Consolidation by spark plasma sintering of polyimide and polyetheretherketone. Journal of Applied Polymer Science, 2014, 131, n/a-n/a.	1.3	24
27	Alternative technique for calcium phosphate coating on titanium alloy implants. Biomatter, 2014, 4, e28534.	2.6	13
28	Lightweight titanium/polymer/titanium sandwich sheet for technical and biomedical application. Materialwissenschaft Und Werkstofftechnik, 2014, 45, 1084-1091.	0.5	10
29	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
30	Mechanical properties and forming behaviour of laminated steel/polymer sandwich systems with local inlays â€“ Part 1. Composite Structures, 2014, 118, 112-120.	3.1	38
31	Three-layered sandwich material for lightweight applications. Emerging Materials Research, 2014, 3, 130-135.	0.4	10
32	Forming Limit Diagram of Steel/Polymer/Steel Sandwich Systems for the Automotive Industry. , 2014, , 243-254.		4
33	Development of Residual Stresses and Texture in Drawn Copper Tubes. Advanced Engineering Materials, 2013, 15, 469-475.	1.6	12
34	Biomimetic calciumâ€“phosphates produced by an auto-catalytic route on stainless steel 316L and bio-inert polyolefin. RSC Advances, 2013, 3, 11255.	1.7	13
35	Investigation on the Residual Stress State of Drawn Tubes by Numerical Simulation and Neutron Diffraction Analysis. Materials, 2013, 6, 5118-5130.	1.3	27
36	Development of Bioactive Hydroxyapatite Coatings on Titanium Alloys. Key Engineering Materials, 2012, 533, 183-193.	0.4	2

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37	Influence of heat treatment on Ti6Al4V for biomimetic biolayer. Bioinspired, Biomimetic and Nanobiomaterials, 2012, 1, 173-182.	0.7	4
38	Calcium phosphate coating on Ti6Al4V by autocatalytic route. Bioinspired, Biomimetic and Nanobiomaterials, 2012, 1, 221-228.	0.7	6
39	Multilayer Roll-Bonded Sandwich: Processing, Mechanical Performance, and Bioactive Behavior. Jom, 2012, 64, 514-519.	0.9	6
40	Metalâ€“polymerâ€“metal sandwiches with local metal reinforcements: A study on formability by deep drawing and bending. Composite Structures, 2011, 94, 1-7.	3.1	47
41	Microstructure and mechanical characteristics of hydroxyapatite coatings on Ti/TiN/Si substrates synthesized by pulsed laser deposition. Applied Physics A: Materials Science and Processing, 2011, 102, 629-640.	1.1	20
42	Nano-crystalline pulsed laser deposition hydroxyapatite thin films on Ti substrate for biomedical application. Journal of Coatings Technology Research, 2011, 8, 749-755.	1.2	13
43	Influence of corona treatment on adhesion and mechanical properties in metal/polymer/metal systems. Journal of Applied Polymer Science, 2011, 120, 3709-3715.	1.3	36
44	Metal/polymer/metal hybrid systems: Towards potential formability applications. Composite Structures, 2011, 93, 715-721.	3.1	80
45	Residual stress distribution in ceramic/metal systems by nondestructive techniques. Procedia Engineering, 2011, 10, 3074-3079.	1.2	1
46	Residual stress distribution in seamless tubes determined experimentally and by FEM. Procedia Engineering, 2011, 10, 3080-3085.	1.2	16
47	Nanocrystalline Î³-Al2O3 thin film deposited by magnetron sputtering (MS) at low temperature. Journal of Coatings Technology Research, 2010, 7, 515-519.	1.2	11
48	Structural and mechanical investigations of magnetron sputtering TiO2/Ti/TiN multilayer films on Si(100) substrate. Journal of Coatings Technology Research, 2010, 7, 821-829.	1.2	7
49	Nanocrystalline spin coated solâ€“gel hydroxyapatite thin films on Ti substrate: Towards potential applications for implants. Solid State Sciences, 2010, 12, 1047-1050.	1.5	26
50	Microstructural and Mechanical Investigations on Porcelainâ€Fusedâ€toâ€Metal in Multilayer System. Advanced Engineering Materials, 2010, 12, B122.	1.6	4
51	A new methodology for the near-surface strain measurement on Pdâ€“Agâ€“Sn alloy. Applied Surface Science, 2010, 256, 6340-6344.	3.1	2
52	Pulsed Laser Deposition of Thin Coatings: Applications on Biomaterials. Materials Science Forum, 2010, 638-642, 530-535.	0.3	3
53	Production of Customized High-Strength Hybrid Sandwich Structures. Advanced Materials Research, 2010, 137, 81-128.	0.3	21
54	Structural, Microstructural, and Residual Stress Investigations of Plasma-Sprayed Hydroxyapatite on Ti-6Al-4 V. ACS Applied Materials & Interfaces, 2010, 2, 561-565.	4.0	52

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55	Tailored Sandwich Structures in the Focus of Research. Materials and Manufacturing Processes, 2009, 24, 1150-1154.	2.7	10
56	Neutron Stress Imaging of Drawn Copper Tube: Comparison with Finite-Element Model. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2008, 39, 3149-3154.	1.1	11
57	A Perspective of Pulsed Laser Deposition (PLD) in Surface Engineering: Alumina Coatings and Substrates. Key Engineering Materials, 2008, 384, 185-212.	0.4	6
58	Variation of Residual Stresses in Drawn Copper Tubes. Materials Science Forum, 2008, 571-572, 21-26.	0.3	3
59	Study of the gradual interface between hydroxyapatite thin films PLD grown onto Ti-controlled sublayers. Applied Surface Science, 2007, 254, 1150-1154.	3.1	15
60	Comparative Studies of Textured Pulsed Laser Deposition and Sol-Gel Growth of Thin Hydroxyapatite Layers on Titanium Substrates. Materials Science Forum, 2006, 524-525, 885-890.	0.3	0
61	Synchrotron Evaluation of Residual Stress in a Leucite Reinforced Glass Ceramic. Materials Science Forum, 2005, 490-491, 527-532.	0.3	0
62	Complementarity of Various Diffraction Techniques Applied to Characterisation of Residual Stress in a Palladium Alloy. Journal of Neutron Research, 2004, 12, 93-98.	0.4	0
63	Characterisation of Microstructure and Residual Stresses in Hydroxyapatite Coatings on Titanium Prostheses. Journal of Neutron Research, 2004, 12, 117-122.	0.4	7
64	Experimental Analysis and Numerical Simulation at Metal-Ceramic Interface. Materials Science Forum, 2003, 426-432, 3963-3968.	0.3	1
65	Synchrotron Evaluation of Residual Stress in Palladium Alloy Substrate. Materials Science Forum, 2002, 404-407, 335-340.	0.3	5
66	Residual Stress Measurements at the Metal/Ceramic Interface Using Modelling of Neutron Diffraction Spectrometer. , 2002, , 487-494.		1
67	Neutron and synchrotron evaluation of residual stresses in coatings. Journal of Neutron Research, 2001, 9, 193-200.	0.4	8
68	Neutron diffraction measurements of residual stresses in metal matrix composite samples. Radiation Physics and Chemistry, 2001, 61, 575-577.	1.4	3
69	Neutron Diffraction Measurements for the Determination of Residual Stress in Ti6A14V Welded Plates. Materials Science Forum, 2000, 347-349, 684-0.	0.3	4
70	Determination of residual stresses in materials and industrial components by neutron diffraction. Measurement Science and Technology, 1999, 10, R56-R73.	1.4	22
71	Press Joining Rolling Process for Hybrid Systems. Key Engineering Materials, 0, 425, 271-281.	0.4	18
72	Nanocrystalline Thin Ceramic Films Synthesised by Pulsed Laser Deposition and Magnetron Sputtering on Metal Substrates for Medical Applications. , 0, , .		1

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73	Forming Potential of Steel/Polymer/Steel Sandwich Composites with Local Plate Inserts. Materials Science Forum, 0, 706-709, 681-686.	0.3	3
74	Metal-Polymer-Metal Laminates for Lightweight Application. Key Engineering Materials, 0, 684, 323-334.	0.4	5
75	Double Functionalization for the Design of Innovative Craniofacial Prostheses. Jom, 0, , .	0.9	3