

Alessandra Varone

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Residual stresses in the graded interlayer between W and CuCrZr alloy. Journal of Materials Science, 2022, 57, 285-298.	3.7	2
2	Grain Orientation and Hardness in the Graded Interlayer of Plasma Sprayed W on CuCrZr. Applied Sciences (Switzerland), 2022, 12, 1822.	2.5	1
3	Plasma Carburizing of Laser Powder Bed Fusion Manufactured 316 L Steel for Enhancing the Surface Hardness. Coatings, 2022, 12, 258.	2.6	8
4	Mechanical spectroscopy study of as-cast and additive manufactured AlSi10Mg. Journal of Alloys and Compounds, 2022, 914, 165361.	5.5	7
5	Flat-Top Cylinder Indenter for Mechanical Characterization: A Report of Industrial Applications. Materials, 2021, 14, 1742.	2.9	4
6	A Focus on Dynamic Modulus: Effects of External and Internal Morphological Features. Metals, 2021, 11, 40.	2.3	4
7	Grain Refinement and Improved Mechanical Properties of EUROFER97 by Thermo-Mechanical Treatments. Applied Sciences (Switzerland), 2021, 11, 10598.	2.5	18
8	Zn-Al Layered Double Hydroxides Synthesized on Aluminum Foams for Fluoride Removal from Water. Processes, 2021, 9, 2109.	2.8	2
9	Cr Segregation and Impact Fracture in a Martensitic Stainless Steel. Coatings, 2020, 10, 843.	2.6	14
10	Dislocation Breakaway Damping in AA7050 Alloy. Metals, 2020, 10, 1682.	2.3	4
11	La distribution on the crater surface of W-La ₂ O ₃ produced by a single laser pulse. Surface and Interface Analysis, 2020, 52, 1093-1097.	1.8	1
12	Surface Morphological Features of Molybdenum Irradiated by a Single Laser Pulse. Coatings, 2020, 10, 67.	2.6	10
13	XPS study of Cr segregation in a martensitic stainless steel. Surface and Interface Analysis, 2020, 52, 1089-1092.	1.8	3
14	The effect of Equal Channel Angular Pressing on the stress corrosion cracking susceptibility of AZ31 alloy in simulated body fluid. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 106, 103724.	3.1	43
15	Adsorption of heavy metals by layered double hydroxides grown in situ on Al foam. Surface and Interface Analysis, 2020, 52, 996-999.	1.8	2
16	Effect of Al substrate microstructure on layered double hydroxide morphology. Journal of Materials Science, 2019, 54, 12437-12449.	3.7	1
17	Lead-Bismuth Eutectic: Atomic and Micro-Scale Melt Evolution. Materials, 2019, 12, 3158.	2.9	2
18	Processing-Structure-Property Relationships in Metals. Metals, 2019, 9, 907.	2.3	3

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19	AA7050 Al Alloy Hot-Forging Process for Improved Fracture Toughness Properties. <i>Metals</i> , 2019, 9, 64.	2.3	13
20	Alloys for Aeronautic Applications: State of the Art and Perspectives. <i>Metals</i> , 2019, 9, 662.	2.3	128
21	Surface phenomena during the early stage of liquid phase SPS of a mixture of coarse WC and Ni-Alloy particles. <i>Surface and Interface Analysis</i> , 2018, 50, 1072-1076.	1.8	0
22	Oxidative treatment effect on TiH ₂ powders. <i>Surface and Interface Analysis</i> , 2018, 50, 1195-1199.	1.8	4
23	Design of Wear-Resistant Austenitic Steels for Selective Laser Melting. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 962-971.	2.2	5
24	Surface and microstructural analyses of a Roman quadrans dating back to first century AD. <i>Surface and Interface Analysis</i> , 2018, 50, 1042-1045.	1.8	1
25	W-1% La ₂ O ₃ Submitted to a Single Laser Pulse: Effect of Particles on Heat Transfer and Surface Morphology. <i>Metals</i> , 2018, 8, 389.	2.3	7
26	Temperature Dependent Mechanical Behavior of ODS Steels. <i>Materials Science Forum</i> , 2018, 941, 257-262.	0.3	2
27	An Innovative Industrial Process for Forging 7050 Al Alloy. <i>Materials Science Forum</i> , 2018, 941, 1047-1052.	0.3	4
28	Mechanical Spectroscopy Investigation of Point Defect-Driven Phenomena in a Cr Martensitic Steel. <i>Metals</i> , 2018, 8, 870.	2.3	10
29	Hydrogen Release from Oxidized Titanium Hydride. <i>Materials Science Forum</i> , 2018, 941, 2203-2208.	0.3	4
30	Layered Double Hydroxides Containing an Ionic Liquid: Ionic Conductivity and Use in Composite Anion Exchange Membranes. <i>ChemElectroChem</i> , 2018, 5, 2781-2788.	3.4	26
31	Preparation, intercalation, and characterization of nanostructured (Zn, Al) layered double hydroxides (LDHs). <i>Surface and Interface Analysis</i> , 2018, 50, 1094-1098.	1.8	8
32	Electron Beam Welding of IN792 DS: Effects of Pass Speed and PWHT on Microstructure and Hardness. <i>Materials</i> , 2017, 10, 1033.	2.9	19
33	Flat-Top Cylinder Indenter Examination of Duplex Stainless Steel 2205 after Different Heat Treatments. <i>Metals</i> , 2017, 7, 178.	2.3	2
34	Analysis of Relaxation Processes in HNS Due to Interstitial-Substitutional Pairs. <i>Metals</i> , 2017, 7, 246.	2.3	3
35	Effects of Laser Offset and Hybrid Welding on Microstructure and IMC in Fe-Al Dissimilar Welding. <i>Metals</i> , 2017, 7, 282.	2.3	32
36	Mechanical Characterization of a Nano-ODS Steel Prepared by Low-Energy Mechanical Alloying. <i>Metals</i> , 2017, 7, 283.	2.3	19

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37	Study of 13Cr-4Ni-(Mo) (F6NM) Steel Grade Heat Treatment for Maximum Hardness Control in Industrial Heats. <i>Metals</i> , 2017, 7, 351.	2.3	9
38	Laser Pulse Effects on Plasma-Sprayed and Bulk Tungsten. <i>Metals</i> , 2017, 7, 454.	2.3	14
39	Evaluation of Structural Stability of Materials through Mechanical Spectroscopy: Four Case Studies. <i>Metals</i> , 2016, 6, 306.	2.3	3
40	Welding of IN792 DS superalloy by electron beam. <i>Surface and Interface Analysis</i> , 2016, 48, 483-487.	1.8	6
41	Surface spectroscopy and structural analysis of nanostructured multifunctional (Zn, Al) layered double hydroxides. <i>Surface and Interface Analysis</i> , 2016, 48, 514-518.	1.8	31
42	Early Instability Phenomena of IN792 DS Superalloy. <i>Materials Science Forum</i> , 2016, 879, 2026-2031.	0.3	2
43	Effect of Heat Treatments on TiH ₂ : Surface Composition and Hydrogen Release. <i>Materials Science Forum</i> , 2016, 879, 2032-2037.	0.3	2
44	Thermal Diffusivity of Sintered Steels with Flash Method at Ambient Temperature. <i>International Journal of Thermophysics</i> , 2016, 37, 1.	2.1	16
45	IN792 DS Superalloy: Optimization of EB Welding and Post-Welding Heat Treatments. <i>Materials Science Forum</i> , 2016, 879, 175-180.	0.3	4
46	Anelastic Phenomena Preceding the Melting of Pure Metals and Alloys. <i>Materials Science Forum</i> , 2016, 879, 66-71.	0.3	2
47	Study of steel-WC interface produced by solid-state capacitor discharge sintering. <i>Surface and Interface Analysis</i> , 2016, 48, 538-542.	1.8	10
48	Synergic Role of Self-Interstitials and Vacancies in Indium Melting. <i>Metals</i> , 2015, 5, 1061-1072.	2.3	16
49	Microchemical inhomogeneity in eutectic Pb-Bi alloy quenched from melt. <i>Surface and Interface Analysis</i> , 2014, 46, 877-881.	1.8	2
50	High temperature tribological behavior and microstructural modifications of the low-temperature carburized AISI 316L austenitic stainless steel. <i>Surface and Coatings Technology</i> , 2014, 258, 772-781.	4.8	26
51	Surface and bulk characterization of molten In and In-Sn alloys. <i>EPJ Web of Conferences</i> , 2011, 15, 01007.	0.3	4
52	Mechanical Spectroscopy Investigation of Liquid Pb-Bi Alloys. <i>Solid State Phenomena</i> , 0, 184, 434-439.	0.3	10
53	Structural Changes of Liquid Pb-Bi Eutectic Alloy. <i>Materials Science Forum</i> , 0, 706-709, 878-883.	0.3	4
54	Young's Modulus Profile in Kolsterized AISI 316L Steel. <i>Materials Science Forum</i> , 0, 762, 183-188.	0.3	20

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55	Elemental Clustering and Structure of Liquid LBE. <i>Advanced Materials Research</i> , 0, 922, 785-790.	0.3	0
56	Temperature Dependent Phenomena in Liquid LBE Alloy. <i>Materials Science Forum</i> , 0, 884, 41-52.	0.3	3
57	Physical Phenomena Leading to Melting of Metals. <i>Materials Science Forum</i> , 0, 884, 3-17.	0.3	2
58	Welding of IN792 DS Superalloy by High Energy Density Techniques. <i>Materials Science Forum</i> , 0, 884, 166-177.	0.3	2
59	Laser Beam Welding of IN792 DS Superalloy. <i>Materials Science Forum</i> , 0, 941, 1149-1154.	0.3	3
60	Increasing the Electrical Conductivity of Layered Double Hydroxides by Intercalation of Ionic Liquids. <i>Materials Science Forum</i> , 0, 941, 2209-2213.	0.3	4
61	Design Solutions from Material Selection for Rib Fixators. <i>Materials Science Forum</i> , 0, 1016, 303-308.	0.3	4
62	Study of High Temperature Properties of AlSi10Mg Alloy Produced by Laser-Based Powder Bed Fusion. <i>Materials Science Forum</i> , 0, 1016, 1485-1491.	0.3	6
63	Surface Morphology of Refractory Metals Submitted to a Single Laser Pulse. <i>Materials Science Forum</i> , 0, 1016, 1526-1531.	0.3	0