

# Alessandra Varone

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5284012/publications.pdf>

Version: 2024-02-01

63  
papers

621  
citations

759233

12  
h-index

713466

21  
g-index

63  
all docs

63  
docs citations

63  
times ranked

572  
citing authors

#	ARTICLE	IF	CITATIONS
1	Alloys for Aeronautic Applications: State of the Art and Perspectives. <i>Metals</i> , 2019, 9, 662.	2.3	128
2	The effect of Equal Channel Angular Pressing on the stress corrosion cracking susceptibility of AZ31 alloy in simulated body fluid. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 106, 103724.	3.1	43
3	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
4	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
5	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
6	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
7	Young's Modulus Profile in Kolsterized AISI 316L Steel. <i>Materials Science Forum</i> , 0, 762, 183-188.	0.3	20
8	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
9	Mechanical Characterization of a Nano-ODS Steel Prepared by Low-Energy Mechanical Alloying. <i>Metals</i> , 2017, 7, 283.	2.3	19
10	Grain Refinement and Improved Mechanical Properties of EUROFER97 by Thermo-Mechanical Treatments. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 10598.	2.5	18
11	Synergic Role of Self-Interstitials and Vacancies in Indium Melting. <i>Metals</i> , 2015, 5, 1061-1072.	2.3	16
12	Thermal Diffusivity of Sintered Steels with Flash Method at Ambient Temperature. <i>International Journal of Thermophysics</i> , 2016, 37, 1.	2.1	16
13	Laser Pulse Effects on Plasma-Sprayed and Bulk Tungsten. <i>Metals</i> , 2017, 7, 454.	2.3	14
14	Cr Segregation and Impact Fracture in a Martensitic Stainless Steel. <i>Coatings</i> , 2020, 10, 843.	2.6	14
15	AA7050 Al Alloy Hot-Forging Process for Improved Fracture Toughness Properties. <i>Metals</i> , 2019, 9, 64.	2.3	13
16	Mechanical Spectroscopy Investigation of Liquid Pb-Bi Alloys. <i>Solid State Phenomena</i> , 0, 184, 434-439.	0.3	10
17	Study of steel-WC interface produced by solid-state capacitor discharge sintering welding. <i>Surface and Interface Analysis</i> , 2016, 48, 538-542.	1.8	10
18	Mechanical Spectroscopy Investigation of Point Defect-Driven Phenomena in a Cr Martensitic Steel. <i>Metals</i> , 2018, 8, 870.	2.3	10

#	ARTICLE	IF	CITATIONS
19	Surface Morphological Features of Molybdenum Irradiated by a Single Laser Pulse. <i>Coatings</i> , 2020, 10, 67.	2.6	10
20	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
21	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
22	Plasma Carburizing of Laser Powder Bed Fusion Manufactured 316 L Steel for Enhancing the Surface Hardness. <i>Coatings</i> , 2022, 12, 258.	2.6	8
23	W-1% La <sub>2</sub> O <sub>3</sub> Submitted to a Single Laser Pulse: Effect of Particles on Heat Transfer and Surface Morphology. <i>Metals</i> , 2018, 8, 389.	2.3	7
24	Mechanical spectroscopy study of as-cast and additive manufactured AlSi10Mg. <i>Journal of Alloys and Compounds</i> , 2022, 914, 165361.	5.5	7
25	Welding of IN792 DS superalloy by electron beam. <i>Surface and Interface Analysis</i> , 2016, 48, 483-487.	1.8	6
26	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
27	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
28	Surface and bulk characterization of molten In and In-Sn alloys. <i>EPJ Web of Conferences</i> , 2011, 15, 01007.	0.3	4
29	Structural Changes of Liquid Pb-Bi Eutectic Alloy. <i>Materials Science Forum</i> , 0, 706-709, 878-883.	0.3	4
30	IN792 DS Superalloy: Optimization of EB Welding and Post-Welding Heat Treatments. <i>Materials Science Forum</i> , 2016, 879, 175-180.	0.3	4
31	Oxidative treatment effect on TiH <sub>2</sub> powders. <i>Surface and Interface Analysis</i> , 2018, 50, 1195-1199.	1.8	4
32	An Innovative Industrial Process for Forging 7050 Al Alloy. <i>Materials Science Forum</i> , 2018, 941, 1047-1052.	0.3	4
33	Hydrogen Release from Oxidized Titanium Hydride. <i>Materials Science Forum</i> , 2018, 941, 2203-2208.	0.3	4
34	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
35	Dislocation Breakaway Damping in AA7050 Alloy. <i>Metals</i> , 2020, 10, 1682.	2.3	4
36	Design Solutions from Material Selection for Rib Fixators. <i>Materials Science Forum</i> , 0, 1016, 303-308.	0.3	4

#	ARTICLE	IF	CITATIONS
37	Flat-Top Cylinder Indenter for Mechanical Characterization: A Report of Industrial Applications. <i>Materials</i> , 2021, 14, 1742.	2.9	4
38	A Focus on Dynamic Modulus: Effects of External and Internal Morphological Features. <i>Metals</i> , 2021, 11, 40.	2.3	4
39	Evaluation of Structural Stability of Materials through Mechanical Spectroscopy: Four Case Studies. <i>Metals</i> , 2016, 6, 306.	2.3	3
40	Temperature Dependent Phenomena in Liquid LBE Alloy. <i>Materials Science Forum</i> , 0, 884, 41-52.	0.3	3
41	Analysis of Relaxation Processes in HNS Due to Interstitial-Substitutional Pairs. <i>Metals</i> , 2017, 7, 246.	2.3	3
42	Laser Beam Welding of IN792 DS Superalloy. <i>Materials Science Forum</i> , 0, 941, 1149-1154.	0.3	3
43	Processingâ€“Structureâ€“Property Relationships in Metals. <i>Metals</i> , 2019, 9, 907.	2.3	3
44	XPS study of Cr segregation in a martensitic stainless steel. <i>Surface and Interface Analysis</i> , 2020, 52, 1089-1092.	1.8	3
45	Microchemical inhomogeneity in eutectic Pbâ€“Bi alloy quenched from melt. <i>Surface and Interface Analysis</i> , 2014, 46, 877-881.	1.8	2
46	Early Instability Phenomena of IN792 DS Superalloy. <i>Materials Science Forum</i> , 2016, 879, 2026-2031.	0.3	2
47	Effect of Heat Treatments on TiH <sub>2</sub> : Surface Composition and Hydrogen Release. <i>Materials Science Forum</i> , 2016, 879, 2032-2037.	0.3	2
48	Anelastic Phenomena Preceding the Melting of Pure Metals and Alloys. <i>Materials Science Forum</i> , 2016, 879, 66-71.	0.3	2
49	Physical Phenomena Leading to Melting of Metals. <i>Materials Science Forum</i> , 0, 884, 3-17.	0.3	2
50	Welding of IN792 DS Superalloy by High Energy Density Techniques. <i>Materials Science Forum</i> , 0, 884, 166-177.	0.3	2
51	Flat-Top Cylinder Indenter Examination of Duplex Stainless Steel 2205 after Different Heat Treatments. <i>Metals</i> , 2017, 7, 178.	2.3	2
52	Temperature Dependent Mechanical Behavior of ODS Steels. <i>Materials Science Forum</i> , 2018, 941, 257-262.	0.3	2
53	Lead-Bismuth Eutectic: Atomic and Micro-Scale Melt Evolution. <i>Materials</i> , 2019, 12, 3158.	2.9	2
54	Adsorption of heavy metals by layered double hydroxides grown in situ on Al foam. <i>Surface and Interface Analysis</i> , 2020, 52, 996-999.	1.8	2

#	ARTICLE	IF	CITATIONS
55	Zn-Al Layered Double Hydroxides Synthesized on Aluminum Foams for Fluoride Removal from Water. Processes, 2021, 9, 2109.	2.8	2
56	Residual stresses in the graded interlayer between W and CuCrZr alloy. Journal of Materials Science, 2022, 57, 285-298.	3.7	2
57	Surface and microstructural analyses of a Roman quadrans dating back to first century <sc>ad</sc>. Surface and Interface Analysis, 2018, 50, 1042-1045.	1.8	1
58	Effect of Al substrate microstructure on layered double hydroxide morphology. Journal of Materials Science, 2019, 54, 12437-12449.	3.7	1
59	La distribution on the crater surface of W-1%La <sub>2</sub> O <sub>3</sub> produced by a single laser pulse. Surface and Interface Analysis, 2020, 52, 1093-1097.	1.8	1
60	Grain Orientation and Hardness in the Graded Interlayer of Plasma Sprayed W on CuCrZr. Applied Sciences (Switzerland), 2022, 12, 1822.	2.5	1
61	Elemental Clustering and Structure of Liquid LBE. Advanced Materials Research, 0, 922, 785-790.	0.3	0
62	Surface phenomena during the early stage of liquid phase SPS of a mixture of coarse WC and Ni-Alloy particles. Surface and Interface Analysis, 2018, 50, 1072-1076.	1.8	0
63	Surface Morphology of Refractory Metals Submitted to a Single Laser Pulse. Materials Science Forum, 0, 1016, 1526-1531.	0.3	0