

Petrica Vizureanu

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

106
papers

555
citations

13
h-index

18
g-index

128
ext. papers

988
ext. citations

1.7
avg, IF

4.38
L-index

#	Paper	IF	Citations
106	XRD and TG-DTA Study of New Alkali Activated Materials Based on Fly Ash with Sand and Glass Powder. <i>Materials</i> , 2020 , 13,	3.5	38
105	Experimental and Theoretical Aspects of Aluminum Expanding Laser Plasma. <i>Japanese Journal of Applied Physics</i> , 2009 , 48, 066001	1.4	30
104	Synthesis and Characteristics of Local Fly Ash Based Geopolymers Mixed with Natural Aggregates. <i>Revista De Chimie (discontinued)</i> , 2019 , 70, 1262-1267	1.8	30
103	Geopolymers and Their Uses: Review. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 374, 012019	0.4	25
102	Characterization and Mechanical Proprieties of New TiMo Alloys Used for Medical Applications. <i>Materials</i> , 2019 , 12,	3.5	21
101	Biocompatible Titanium Alloys used in Medical Applications. <i>Revista De Chimie (discontinued)</i> , 2019 , 70, 1302-1306	1.8	21
100	Evaluation of the Corrosion Resistance of Phosphate Coatings Deposited on the Surface of the Carbon Steel Used for Carabiners Manufacturing. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2753	2.6	20
99	Strength Development and Elemental Distribution of Dolomite/Fly Ash Geopolymer Composite under Elevated Temperature. <i>Materials</i> , 2020 , 13,	3.5	17
98	Effect of Ta on the electrochemical behavior of new TiMoZrTa alloys in artificial physiological solution simulating in vitro inflammatory conditions. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2016 , 67, 1314-1320	1.6	17
97	Effect of Unmodified and Modified Nanocrystalline Cellulose Reinforced Polylactic Acid (PLA) Polymer Prepared by Solvent Casting Method Morphology, mechanical and thermal properties 2017 , 54, 91-97		15
96	Ti-Mo Alloys Used in Medical Applications. <i>Advanced Materials Research</i> , 2015 , 1128, 105-111	0.5	14
95	Obtaining shape memory alloy thin layer using PLD technique. <i>Journal of Mining and Metallurgy, Section B: Metallurgy</i> , 2014 , 50, 69-76	1	13
94	Revealing the Influence of Microparticles on Geopolymers' Synthesis and Porosity. <i>Materials</i> , 2020 , 13,	3.5	13
93	Investigations on Thermal Conductivity of Carbon Nanotubes Reinforced Composites. <i>Experimental Heat Transfer</i> , 2015 , 28, 37-57	2.4	12
92	Microstructural Analysis and Tribological Behavior of Ti-Based Alloys with a Ceramic Layer Using the Thermal Spray Method. <i>Coatings</i> , 2020 , 10, 1216	2.9	11
91	Properties of a New Insulation Material Glass Bubble in Geo-Polymer Concrete. <i>Materials</i> , 2021 , 14,	3.5	11
90	Phosphate Surface Treatment for Improving the Corrosion Resistance of the C45 Carbon Steel Used in Carabiners Manufacturing. <i>Materials</i> , 2020 , 13,	3.5	9

89	Relation between Density and Compressive Strength of Foamed Concrete. <i>Materials</i> , 2021 , 14,	3.5	9
88	Preliminary Tests for Ti-Mo-Zr-Ta Alloys as Potential Biomaterials. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 374, 012023	0.4	8
87	El Naschie's superconductivity in the time dependent Ginzburg-Landau model. <i>Chaos, Solitons and Fractals</i> , 2007 , 34, 1060-1074	9.3	7
86	A Theoretical Approach of the Heat Transfer in Nanofluids. <i>Materials Transactions</i> , 2007 , 48, 3021-3023	1.3	7
85	Fractal Characteristics of the Solidification Process. <i>Materials Transactions</i> , 2004 , 45, 972-975	1.3	7
84	Microstructural Analysis and Tribological Behavior of AMDRY 1371 (Mo-Ni-Cr-Fe-B-SiC) Atmospheric Plasma Spray Deposited Thin Coatings. <i>Coatings</i> , 2020 , 10, 1186	2.9	7
83	Mechanical tests for Ti-based alloys as new medical materials. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 572, 012029	0.4	7
82	New Ti-Mo-Si materials for bone prosthesis applications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021 , 113, 104198	4.1	7
81	Improvement of the Turbine Blade Surface Phase Structure Recovered by Plasma Spraying. <i>Coatings</i> , 2020 , 10, 62	2.9	6
80	Synthesis and Characterization of TiO ₂ /SiO ₂ Thin Film via Sol-Gel Method. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 209, 012002	0.4	6
79	A State-of-the-Art Review on Innovative Geopolymer Composites Designed for Water and Wastewater Treatment. <i>Materials</i> , 2021 , 14,	3.5	6
78	Compressive Strength and Thermal Conductivity of Fly Ash Geopolymer Concrete Incorporated with Lightweight Aggregate, Expanded Clay Aggregate and Foaming Agent. <i>Revista De Chimie (discontinued)</i> , 2019 , 70, 4021-4028	1.8	6
77	New Titanium Alloys, Promising Materials for Medical Devices. <i>Materials</i> , 2021 , 14,	3.5	6
76	Electrochemical Analysis and In Vitro Assay of Mg-0.5Ca-xY Biodegradable Alloys. <i>Materials</i> , 2020 , 13,	3.5	6
75	Preliminary Microstructural and Microscratch Results of Ni-Cr-Fe and Cr ₃ C ₂ -NiCr Coatings on Magnesium Substrate. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 209, 012024	0.4	5
74	Damage detection of carbon reinforced composites using nondestructive evaluation with ultrasound and electromagnetic methods. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 133, 012013	0.4	5
73	Design, Synthesis, and Preliminary Evaluation for Ti-Mo-Zr-Ta-Si Alloys for Potential Implant Applications. <i>Materials</i> , 2021 , 14,	3.5	5
72	Tribological characterization of phosphate conversion coating and rubber paint coating deposited on carbon steel carabiners surfaces. <i>Materials Today: Proceedings</i> , 2019 , 19, 969-978	1.4	5

71	Obtaining and Mechanical Properties of Ti-Mo-Zr-Ta Alloys. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 209, 012019	0.4	4
70	Active Screen Plasma Nitriding Efficiency and Ecology. <i>Applied Mechanics and Materials</i> , 2014 , 657, 369-373	3.3	4
69	Structural Conductivity of Carbon Nanotubes. <i>Revista De Chimie (discontinued)</i> , 2008 , 59, 1169-1171	1.8	4
68	ESD morphology deposition with WZr8 electrode on austenitic stainless steel support. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 133, 012025	0.4	4
67	Effects of the chemical composition on the microstructural characteristics of Ti-Nb-Ta-Zr alloys. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 572, 012022	0.4	4
66	Performance of local fly ash geopolymers under different types of acids. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 572, 012026	0.4	4
65	Study on structure and properties of CuZn40Pb alloy. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 133, 012015	0.4	3
64	Waveparticle duality through an extended model of the scale relativity theory. <i>Physica Scripta</i> , 2008 , 78, 065101	2.6	3
63	Remote Field Eddy Current Control Using Rotating Magnetic Field Transducer: Application to Pressure Tubes Examination. <i>Research in Nondestructive Evaluation</i> , 2008 , 19, 202-218	0.9	3
62	Biomimetic Deposition of Hydroxyapatite Layer on Titanium Alloys.. <i>Micromachines</i> , 2021 , 12,	3.3	3
61	Experimental Study on the Influence of Zirconia Surface Preparation on Deposition of Hydroxyapatite. <i>Revista De Chimie (discontinued)</i> , 2019 , 70, 2273-2275	1.8	3
60	Properties of Cu-xFeO Nanocomposites for Electrical Application. <i>Materials</i> , 2020 , 13,	3.5	3
59	Corrosion-Resistance Analysis of HA Layer Deposited through Electrophoresis on Ti4Al4Zr Metallic Substrate. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 4198	2.6	3
58	In-depth assessment of new Ti-based biocompatible materials. <i>Materials Chemistry and Physics</i> , 2021 , 258, 123959	4.4	3
57	Effect of Electromigration and Thermal Ageing on the Tin WhiskersFormation in Thin Sn0.7Cu0.05Ga Lead (Pb)-Free Solder Joints. <i>Coatings</i> , 2021 , 11, 935	2.9	3
56	XRD and TG-DTA Study of New Phosphate-Based Geopolymers with Coal Ash or Metakaolin as Aluminosilicate Source and Mine Tailings Addition.. <i>Materials</i> , 2021 , 15,	3.5	3
55	Microstructural Analysis and Mechanical Properties of TiMoZrTaSi Alloys as Biomaterials. <i>Materials</i> , 2020 , 13,	3.5	2
54	Improvement of Properties of Aluminum Bronze CuAl7Mn3 by Heat Treatments. <i>Applied Mechanics and Materials</i> , 2014 , 657, 412-416	0.3	2

53	Biocompatibility Evaluation of New TiMoSi Alloys. <i>Acta Physica Polonica A</i> , 2020 , 138, 283-286	0.6	2
52	Materials types and selection for carabiners manufacturing: a review. <i>IOP Conference Series: Materials Science and Engineering</i> , 572 , 012027	0.4	2
51	The Influence of MMA Esterification on Interfacial Adhesion and Mechanical Properties of Hybrid Kenaf Bast/Glass Fiber Reinforced Unsaturated Polyester Composites. <i>Materials</i> , 2021 , 14,	3.5	2
50	Study of the Spatial Distribution of Forces and Stresses on Wear Surfaces at Optimization of the Excavating Part of an Earthmoving Machine Transverse Profile. <i>Coatings</i> , 2021 , 11, 182	2.9	2
49	Performance of Sn-3.0Ag-0.5Cu Composite Solder with Kaolin Geopolymer Ceramic Reinforcement on Microstructure and Mechanical Properties under Isothermal Ageing. <i>Materials</i> , 2021 , 14,	3.5	2
48	Noninvasive Evaluation of Special Alloys for Prostheses Using Complementary Methods. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 374, 012030	0.4	2
47	Assessment of Hard Thin Layers Deposited by Plasma Spray on Hydroboration. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 374, 012029	0.4	2
46	The Effect of Heat Treatment and Corrosion Behavior of AISI420. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 374, 012039	0.4	2
45	Mechanical and Durability Analysis of Fly Ash Based Geopolymer with Various Compositions for Rigid Pavement Applications. <i>Materials</i> , 2022 , 15, 3458	3.5	2
44	Investigations of Thin Films Obtained by Plasma Jet Method on a Stainless Steel Used in Turbine Blades Construction. <i>Key Engineering Materials</i> , 2017 , 750, 85-90	0.4	1
43	Ti-Mo-Zr-Ta Alloy for Biomedical Applications: Microstructures and Mechanical Properties. <i>Key Engineering Materials</i> , 2017 , 750, 184-188	0.4	1
42	Some aspects over the quality of thin films deposited on special steels used in hydraulic blades. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 147, 012040	0.4	1
41	The structural characterization of some biomaterials, type AISI 310, used in medicine. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 133, 012019	0.4	1
40	Investigation into the Effect of Thermal Treatment on the Obtaining of Magnetic Phases: FeY, FeB, YFeB and Fe within the Amorphous Matrix of Rapidly-Quenched FeCoWYB Alloys (Where x = 0, 1 or 2). <i>Materials</i> , 2020 , 13,	3.5	1
39	Morpho-Structural Characterization of WC20Co Deposited Layers. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 209, 012020	0.4	1
38	Quality Control of Thin Films Deposited on Special Steels Used in Hydraulic Blades. <i>Advanced Materials Research</i> , 2016 , 1138, 62-68	0.5	1
37	Structural Analysis of CoCrMoSi6 Alloy Used in Medical Applications. <i>Key Engineering Materials</i> , 2016 , 700, 86-92	0.4	1
36	Preparation of Heat Treated Titanium Dioxide (TiO ₂) Nanoparticles for Water Purification. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 374, 012084	0.4	1

35	Obtaining hydroxyapatite (HA) by sol-gel method on Ti6Al4V alloys aiming the implant's surface bio-functionalization 2013 ,		1
34	Thermal Processing of a Titanium Alloy for Aeronautical Applications. <i>Materials Science Forum</i> , 2017 , 907, 214-219	0.4	1
33	Quality Surface Modification for Refractory Stainless Steel by Tungsten Deposition, Using Electro-Spark Deposition Method. <i>Applied Mechanics and Materials</i> , 2015 , 809-810, 417-422	0.3	1
32	Electromagnetic Sensors for Improvement of Damage Detection in Composite Materials Reinforced with Carbon Woven Fibers. <i>Key Engineering Materials</i> , 2015 , 660, 317-322	0.4	1
31	Corrosion Behavior in Saline Medium for a Cu-Zn Casting Alloy. <i>Key Engineering Materials</i> , 2015 , 660, 68-74	0.4	1
30	Study of Various Thin Films Obtained by Several Deposition Methods . <i>Advanced Materials Research</i> , 2014 , 1036, 201-206	0.5	1
29	On the Fatigue of Shape Memory Alloys. <i>Key Engineering Materials</i> , 2013 , 594-595, 133-139	0.4	1
28	Technological Development Perspectives and Experimental Results of MIG Welding Soldering. <i>Advanced Materials Research</i> , 2013 , 814, 54-59	0.5	1
27	Potential Applications of Geopolymer Cement-Based Composite as Self-Cleaning Coating: A Review. <i>Coatings</i> , 2022 , 12, 133	2.9	1
26	Potential of Soil Stabilization Using Ground Granulated Blast Furnace Slag (GGBFS) and Fly Ash via Geopolymerization Method: A Review.. <i>Materials</i> , 2022 , 15,	3.5	1
25	Influence of Co and Zr Content on Creation of Crystalline Phases in Rapidly-Cooled, Injection-Cast Alloys Fe ₇₀ Zr _{8-x} CoxNb ₂ B ₂₀ (where x=0, 2, 4, 6 or 8). <i>Acta Physica Polonica A</i> , 2020 , 138, 152-155	0.6	1
24	Study of Wear and Redistribution Dynamic Forces of Wheel Pairs Restored by a Wear-Resistant Coating 15Cr17Ni12V3F. <i>Coatings</i> , 2021 , 11, 1441	2.9	1
23	MATERIALS PROCESSING USING SOLAR ENERGY. <i>Environmental Engineering and Management Journal</i> , 2009 , 8, 301-306	0.6	1
22	Microstructural Analysis of Ti/W/WC Deposition by ESD Method. <i>Acta Physica Polonica A</i> , 2020 , 138, 214-217	0.6	1
21	Experimental Research on the Cutting of Metal Materials by Electrical Discharge Machining with Contact Breaking with Metal Band as Transfer Object. <i>Materials</i> , 2020 , 13,	3.5	1
20	Investigation of the Strength Parameters of Drilling Pumps during the Formation of Contact Stresses in Gears. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 7076	2.6	1
19	Potential of Rapid Tooling in Rapid Heat Cycle Molding: A Review. <i>Materials</i> , 2022 , 15, 3725	3.5	1
18	Surface Characterization of New Biomaterials. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 209, 012022	0.4	0

17	Complementary methods for nondestructive testing of composite materials reinforced with carbon woven fibers. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015 , 95, 012091	0.4	○
16	In Vitro study for new Ti-Mo-Zr-Ta alloys for medical use. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 572, 012030	0.4	○
15	Zirconia Dental Implant Materials. <i>Materials Science Forum</i> , 2017 , 907, 99-103	0.4	
14	Study on Al-Si Alloys Properties Enhancement. <i>Applied Mechanics and Materials</i> , 2015 , 754-755, 634-638	0.3	
13	Behavior of CuPb12Sn6 Alloys subjected to Heat Treatments. <i>MATEC Web of Conferences</i> , 2016 , 78, 010823	0.3	
12	Improvement of Structural Characteristics for CuZn Alloy through Heat Treatments. <i>Key Engineering Materials</i> , 2017 , 750, 3-8	0.4	
11	Nondestructive evaluation of the interface between ceramic coating and stainless steel by electromagnetic method. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 147, 012030	0.4	
10	Electromagnetic Nondestructive Evaluation of Tubes using Data Mining Procedure. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 209, 012005	0.4	
9	Synthesis of Nanosized Silica and Silver-Doped Silica Nanoparticles for Heat Transfer Fluids Applications. <i>Key Engineering Materials</i> , 2015 , 660, 155-160	0.4	
8	Study on Quenching and Artificial Ageing on Al-Si Alloy. <i>Materials Science Forum</i> , 2014 , 803, 209-215	0.4	
7	On the Structure of Shape Memory Alloys. <i>Key Engineering Materials</i> , 2013 , 594-595, 140-145	0.4	
6	Electrochemical Evaluation of AISI 420 Steel after Several Heat Treatments. <i>Acta Physica Polonica A</i> , 2019 , 135, 115-118	0.6	
5	REDUCING OF POLLUTANTS EMISSIONS AND HEAVY LIQUID FUELS CONSUMPTION IN BOILERS BY USING OF ADDITIVES. <i>Environmental Engineering and Management Journal</i> , 2009 , 8, 1241-1246	0.6	
4	Change of Magnetic Saturation Polarisation as a Function of Temperature in Bulk Fe-Based Amorphous Alloys. <i>Acta Physica Polonica A</i> , 2021 , 139, 510-512	0.6	
3	The Analysis of Metallic Materials Subjected to Cycles of Thermal and Mechanical Fatigue. <i>Key Engineering Materials</i> , 2016 , 700, 78-85	0.4	
2	Ecological process of energy growth of hydraulic turbines used in protected areas in Romania. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 572, 012082	0.4	
1	Clean Water Production Enhancement through the Integration of Small-Scale Solar Stills with Solar Dish Concentrators (SDCs) A Review. <i>Sustainability</i> , 2022 , 14, 5442	3.6	