

Petrica Vizureanu

List of Publications by Year in Descending Order

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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	Potential Applications of Geopolymer Cement-Based Composite as Self-Cleaning Coating: A Review. <i>Coatings</i> , 2022 , 12, 133	2.9	1
105	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
104	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	
103	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
102	Potential of Rapid Tooling in Rapid Heat Cycle Molding: A Review. <i>Materials</i> , 2022 , 15, 3725	3.5	1
101	A State-of-the-Art Review on Innovative Geopolymer Composites Designed for Water and Wastewater Treatment. <i>Materials</i> , 2021 , 14,	3.5	6
100	Design, Synthesis, and Preliminary Evaluation for Ti-Mo-Zr-Ta-Si Alloys for Potential Implant Applications. <i>Materials</i> , 2021 , 14,	3.5	5
99	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
98	Biomimetic Deposition of Hydroxyapatite Layer on Titanium Alloys.. <i>Micromachines</i> , 2021 , 12,	3.3	3
97	New Titanium Alloys, Promising Materials for Medical Devices. <i>Materials</i> , 2021 , 14,	3.5	6
96	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
95	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	
94	Corrosion-Resistance Analysis of HA Layer Deposited through Electrophoresis on Ti4Al4Zr Metallic Substrate. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 4198	2.6	3
93	Relation between Density and Compressive Strength of Foamed Concrete. <i>Materials</i> , 2021 , 14,	3.5	9
92	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
91	In-depth assessment of new Ti-based biocompatible materials. <i>Materials Chemistry and Physics</i> , 2021 , 258, 123959	4.4	3
90	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

89	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
88	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
87	Properties of a New Insulation Material Glass Bubble in Geo-Polymer Concrete. <i>Materials</i> , 2021 , 14,	3.5	11
86	Effect of Electromigration and Thermal Ageing on the Tin Whiskers Formation in Thin Sn0.7Cu0.05Ga Lead (Pb)-Free Solder Joints. <i>Coatings</i> , 2021 , 11, 935	2.9	3
85	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
84	Microstructural Analysis and Mechanical Properties of TiMoZrTaSi Alloys as Biomaterials. <i>Materials</i> , 2020 , 13,	3.5	2
83	Strength Development and Elemental Distribution of Dolomite/Fly Ash Geopolymer Composite under Elevated Temperature. <i>Materials</i> , 2020 , 13,	3.5	17
82	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
81	Improvement of the Turbine Blade Surface Phase Structure Recovered by Plasma Spraying. <i>Coatings</i> , 2020 , 10, 62	2.9	6
80	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
79	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
78	Influence of Co and Zr Content on Creation of Crystalline Phases in Rapidly-Cooled, Injection-Cast Alloys Fe70Zr8-xCoxNb2B20 (where x=0, 2, 4, 6 or 8). <i>Acta Physica Polonica A</i> , 2020 , 138, 152-155	0.6	1
77	Biocompatibility Evaluation of New TiMoSi Alloys. <i>Acta Physica Polonica A</i> , 2020 , 138, 283-286	0.6	2
76	Microstructural Analysis of Ti/W/WC Deposition by ESD Method. <i>Acta Physica Polonica A</i> , 2020 , 138, 214-217	2.6	1
75	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
74	Revealing the Influence of Microparticles on Geopolymers' Synthesis and Porosity. <i>Materials</i> , 2020 , 13,	3.5	13
73	Electrochemical Analysis and In Vitro Assay of Mg-0.5Ca-xY Biodegradable Alloys. <i>Materials</i> , 2020 , 13,	3.5	6
72	Properties of Cu-xFeO Nanocomposites for Electrical Application. <i>Materials</i> , 2020 , 13,	3.5	3

71	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
70	Microstructural Analysis and Tribological Behavior of AMDRY 1371 (MoNiCrFeBSiC) Atmospheric Plasma Spray Deposited Thin Coatings. <i>Coatings</i> , 2020 , 10, 1186	2.9	7
69	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
68	Characterization and Mechanical Proprieties of New TiMo Alloys Used for Medical Applications. <i>Materials</i> , 2019 , 12,	3.5	21
67	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
66	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
65	Biocompatible Titanium Alloys used in Medical Applications. <i>Revista De Chimie (discontinued)</i> , 2019 , 70, 1302-1306	1.8	21
64	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
63	Electrochemical Evaluation of AISI 420 Steel after Several Heat Treatments. <i>Acta Physica Polonica A</i> , 2019 , 135, 115-118	0.6	
62	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
61	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	0
60	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	
59	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
58	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
57	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
56	Geopolymers and Their Uses: Review. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 374, 012019	0.4	25
55	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
54	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

53	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
52	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
51	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
50	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
49	Ti-Mo-Zr-Ta Alloy for Biomedical Applications: Microstructures and Mechanical Properties. <i>Key Engineering Materials</i> , 2017 , 750, 184-188	0.4	1
48	Zirconia Dental Implant Materials. <i>Materials Science Forum</i> , 2017 , 907, 99-103	0.4	
47	Morpho-Structural Characterization of WC20Co Deposited Layers. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 209, 012020	0.4	1
46	Surface Characterization of New Biomaterials. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 209, 012022	0.4	0
45	Preliminary Microstructural and Microscratch Results of Ni-Cr-Fe and Cr3C2-NiCr Coatings on Magnesium Substrate. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 209, 012024	0.4	5
44	Improvement of Structural Characteristics for CuZn Alloy through Heat Treatments. <i>Key Engineering Materials</i> , 2017 , 750, 3-8	0.4	
43	Electromagnetic Nondestructive Evaluation of Tubes using Data Mining Procedure. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 209, 012005	0.4	
42	Thermal Processing of a Titanium Alloy for Aeronautical Applications. <i>Materials Science Forum</i> , 2017 , 907, 214-219	0.4	1
41	Synthesis and Characterization of TiO2/SiO2 Thin Film via Sol-Gel Method. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 209, 012002	0.4	6
40	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
39	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
38	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
37	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
36	Behavior of CuPb12Sn6 Alloys subjected to Heat Treatments. <i>MATEC Web of Conferences</i> , 2016 , 78, 010823		

35	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
34	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
33	Structural Analysis of CoCrMoSi6 Alloy Used in Medical Applications. <i>Key Engineering Materials</i> , 2016 , 700, 86-92	0.4	1
32	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	
31	Study on structure and properties of CuZn40Pb alloy. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 133, 012015	0.4	3
30	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
29	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
28	The Analysis of Metallic Materials Subjected to Cycles of Thermal and Mechanical Fatigue. <i>Key Engineering Materials</i> , 2016 , 700, 78-85	0.4	
27	Study on Al-Si Alloys Properties Enhancement. <i>Applied Mechanics and Materials</i> , 2015 , 754-755, 634-638	0.3	
26	Investigations on Thermal Conductivity of Carbon Nanotubes Reinforced Composites. <i>Experimental Heat Transfer</i> , 2015 , 28, 37-57	2.4	12
25	Ti-Mo Alloys Used in Medical Applications. <i>Advanced Materials Research</i> , 2015 , 1128, 105-111	0.5	14
24	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
23	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	
22	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
21	Corrosion Behavior in Saline Medium for a Cu-Zn Casting Alloy. <i>Key Engineering Materials</i> , 2015 , 660, 68-74	0.4	1
20	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	0
19	Improvement of Properties of Aluminum Bronze CuAl7Mn3 by Heat Treatments. <i>Applied Mechanics and Materials</i> , 2014 , 657, 412-416	0.3	2
18	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

17	Study of Various Thin Films Obtained by Several Deposition Methods . <i>Advanced Materials Research</i> , 2014 , 1036, 201-206	0.5	1
16	Active Screen Plasma Nitriding Efficiency and Ecology. <i>Applied Mechanics and Materials</i> , 2014 , 657, 369-373	0.4	4
15	Study on Quenching and Artificial Ageing on Al-Si Alloy. <i>Materials Science Forum</i> , 2014 , 803, 209-215	0.4	
14	Obtaining hydroxyapatite (HA) by sol-gel method on Ti6Al4V alloys aiming the implant's surface bio-functionalization 2013 ,		1
13	On the Structure of Shape Memory Alloys. <i>Key Engineering Materials</i> , 2013 , 594-595, 140-145	0.4	
12	On the Fatigue of Shape Memory Alloys. <i>Key Engineering Materials</i> , 2013 , 594-595, 133-139	0.4	1
11	Technological Development Perspectives and Experimental Results of MIG Welding Soldering. <i>Advanced Materials Research</i> , 2013 , 814, 54-59	0.5	1
10	Experimental and Theoretical Aspects of Aluminum Expanding Laser Plasma. <i>Japanese Journal of Applied Physics</i> , 2009 , 48, 066001	1.4	30
9	MATERIALS PROCESSING USING SOLAR ENERGY. <i>Environmental Engineering and Management Journal</i> , 2009 , 8, 301-306	0.6	1
8	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	
7	Waveparticle duality through an extended model of the scale relativity theory. <i>Physica Scripta</i> , 2008 , 78, 065101	2.6	3
6	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
5	Structural Conductivity of Carbon Nanotubes. <i>Revista De Chimie (discontinued)</i> , 2008 , 59, 1169-1171	1.8	4
4	El Naschie's superconductivity in the time dependent Ginzburg-Landau model. <i>Chaos, Solitons and Fractals</i> , 2007 , 34, 1060-1074	9.3	7
3	A Theoretical Approach of the Heat Transfer in Nanofluids. <i>Materials Transactions</i> , 2007 , 48, 3021-3023	1.3	7
2	Fractal Characteristics of the Solidification Process. <i>Materials Transactions</i> , 2004 , 45, 972-975	1.3	7
1	Materials types and selection for carabiners manufacturing: a review. <i>IOP Conference Series: Materials Science and Engineering</i> , 572 , 012027	0.4	2