

Farshid Pahlevani

List of Publications by Year in descending order

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Version: 2024-02-01

94
papers

1,473
citations

361296

20
h-index

395590

33
g-index

97
all docs

97
docs citations

97
times ranked

1383
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of hydrothermal hot-compression method on the antimicrobial performance of green building materials from heterogeneous cellulose wastes. <i>Journal of Cleaner Production</i> , 2021, 280, 124377.	4.6	8
2	Effect of cyclic reprocessing on nylon 12 under injection molding: working toward more efficient recycling of plastic waste. <i>Materials Today Sustainability</i> , 2021, 11-12, 100056.	1.9	3
3	Dual functionality of mixed Cu-based two-dimensional (2D) heterostructures derived from electronic waste. <i>Green Chemistry</i> , 2021, 23, 5511-5523.	4.6	5
4	Valence Electron Ratio for Design of Shape Memory Alloys with Desired Phase Transformation Temperatures. <i>Shape Memory and Superelasticity</i> , 2021, 7, 179-189.	1.1	8
5	Synthesis of Value-Added Ferrous Material from Electric Arc Furnace (EAF) Slag and Spent Coffee Grounds. <i>Jom</i> , 2021, 73, 1878-1888.	0.9	3
6	On the damage mechanisms during compressive dwell-fatigue of β -annealed Ti-6242S alloy. <i>International Journal of Fatigue</i> , 2021, 146, 106158.	2.8	6
7	Effect of silicon and partitioning temperature on the microstructure and mechanical properties of high-carbon steel in a quenching and partitioning heat treatment. <i>Journal of Materials Science</i> , 2021, 56, 15423-15440.	1.7	5
8	Martensite and reverse transformation temperatures of TiAu-based and TiIr-based intermetallics. <i>Journal of Alloys and Compounds</i> , 2021, 870, 159399.	2.8	4
9	Synthesis and characterization of biomorphic 1D-SiC nanoceramics from novel macroalga precursor material. <i>Journal of Cleaner Production</i> , 2021, 312, 127808.	4.6	5
10	Effect of Microstructural Features on Magnetic Properties of High-Carbon Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021, 52, 5107-5122.	1.1	2
11	Characterization of Waste-Integrated Multi-hybrid Structure for Enhancing Corrosion Resistance of High-Carbon Steel. <i>Journal of Sustainable Metallurgy</i> , 2021, 7, 166-177.	1.1	0
12	Wastes as resources in steelmaking industry – current trends. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2020, 26, 100377.	3.2	4
13	Thermal Transformation of End-of-Life Latex to Valuable Materials. <i>Journal of Composites Science</i> , 2020, 4, 166.	1.4	0
14	Effects of austenizing temperature, cooling rate and isothermal temperature on overall phase transformation characteristics in high carbon steel. <i>Journal of Materials Research and Technology</i> , 2020, 9, 15286-15297.	2.6	15
15	A novel reforming approach of utilizing spent coffee grounds to produce iron. <i>Resources, Conservation and Recycling</i> , 2020, 163, 105067.	5.3	5
16	Comparison on corrosion performance of waste-based multi-hybrid structure high carbon steel and high Cr cast steel. <i>SN Applied Sciences</i> , 2020, 2, 1.	1.5	0
17	Valorisation of discarded nonwoven polypropylene as potential matrix-phase for thermoplastic-lignocellulose hybrid material engineered for building applications. <i>Journal of Cleaner Production</i> , 2020, 258, 120730.	4.6	17
18	Behaviour of Sulphide and Non-alumina-Based Oxide Inclusions in Ca-Treated High-Carbon Steel. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2020, 51, 1384-1394.	1.0	13

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19	Multifunctional marine bio-additive with synergistic effect for non-toxic flame-retardancy and anti-microbial performance. <i>Sustainable Materials and Technologies</i> , 2020, 25, e00199.	1.7	3
20	Thermal Isolation of a Clean Alloy from Waste Slag and Polymeric Residue of Electronic Waste. <i>Processes</i> , 2020, 8, 53.	1.3	11
21	Utilization of Waste Materials for the Manufacturing of Better-Quality Wear and Corrosion-Resistant Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020, 51, 2404-2410.	1.1	3
22	Current trends in direct transformation of waste printed circuit boards (WPCBs) into value-added materials and products. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2020, 24, 14-20.	3.2	22
23	Revealing the mechanism of extraordinary hardness without compensating the toughness in a low alloyed high carbon steel. <i>Scientific Reports</i> , 2020, 10, 181.	1.6	12
24	Direct transformation of waste children's toys to high quality products using 3D printing: A waste-to-wealth and sustainable approach. <i>Journal of Cleaner Production</i> , 2020, 267, 122188.	4.6	10
25	Stress-Induced Phase Transformation and Its Correlation with Corrosion Properties of Dual-Phase High Carbon Steel. <i>Journal of Manufacturing and Materials Processing</i> , 2019, 3, 55.	1.0	6
26	In situ characterisation of MnS precipitation in high carbon steel. <i>Scientific Reports</i> , 2019, 9, 10096.	1.6	16
27	Effect of austenitisation temperature on corrosion resistance properties of dual-phase high-carbon steel. <i>Journal of Materials Science</i> , 2019, 54, 13775-13786.	1.7	15
28	Recovery of heavy metals from waste printed circuit boards: statistical optimization of leaching and residue characterization. <i>Environmental Science and Pollution Research</i> , 2019, 26, 24417-24429.	2.7	19
29	Enhancing Corrosion Resistance of High-Carbon Steel by Formation of Surface Layers Using Wastes as Input. <i>Metals</i> , 2019, 9, 902.	1.0	2
30	Effect of selective-precipitations process on the corrosion resistance and hardness of dual-phase high-carbon steel. <i>Scientific Reports</i> , 2019, 9, 15631.	1.6	6
31	From Waste to Multi-Hybrid Layering of High Carbon Steel to Improve Corrosion Resistance: An In-Depth Analysis Using EPMA and AFM Techniques. <i>Surfaces</i> , 2019, 2, 485-496.	1.0	2
32	Strain-rate-dependent deformation behaviour of high-carbon steel in compression: mechanical and structural characterisation. <i>Journal of Materials Science</i> , 2019, 54, 6594-6607.	1.7	10
33	Stability of retained austenite in high carbon steel – Effect of post-tempering heat treatment. <i>Materials Characterization</i> , 2019, 149, 239-247.	1.9	27
34	Strain-Rate-Dependent Deformation Behavior of High-Carbon Steel under Tensile/Compressive Loading. <i>Jom</i> , 2019, 71, 2757-2769.	0.9	5
35	Effect of glass aggregates and coupling agent on the mechanical behaviour of polymeric glass composite. <i>Journal of Cleaner Production</i> , 2019, 227, 119-129.	4.6	12
36	Innovative Surface Engineering of High-Carbon Steel through Formation of Ceramic Surface and Diffused Subsurface Hybrid Layering. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 9228-9236.	3.2	4

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37	Direct transformation of waste printed circuit boards into high surface area t-SnO ₂ for photocatalytic dye degradation. Journal of Environmental Chemical Engineering, 2019, 7, 103133.	3.3	13
38	Mechanical particle size reduction methods as potential interfacial optimization alternative for a low-carbon particulate reinforced marine bio-composite. Journal of Cleaner Production, 2019, 221, 509-525.	4.6	11
39	Selective isolation of heavy metals from spent electronic waste solution by macroporous ion-exchange resins. Journal of Hazardous Materials, 2019, 371, 389-396.	6.5	90
40	Effect of different waste filler and silane coupling agent on the mechanical properties of powder-resin composite. Journal of Cleaner Production, 2019, 224, 940-956.	4.6	29
41	From waste to surface modification of aluminum bronze using selective surface diffusion process. Scientific Reports, 2019, 9, 1559.	1.6	1
42	Engineered hybrid fibre reinforced composites for sound absorption building applications. Resources, Conservation and Recycling, 2019, 143, 1-14.	5.3	46
43	Surface modification of high carbon steel through microstructural engineering. Materials Characterization, 2019, 148, 116-122.	1.9	9
44	Cascading use of textile waste for the advancement of fibre reinforced composites for building applications. Journal of Cleaner Production, 2019, 208, 1524-1536.	4.6	100
45	Two-step pre-processing enrichment of waste printed circuit boards: Mechanical milling and physical separation. Journal of Cleaner Production, 2018, 184, 1113-1124.	4.6	64
46	Cost-effective and sustainable approach to transform end-of-life vinyl banner to value added product. Resources, Conservation and Recycling, 2018, 136, 9-21.	5.3	13
47	Direct transformation of waste printed circuit boards to nano-structured powders through mechanical alloying. Materials and Design, 2018, 141, 26-36.	3.3	33
48	From waste glass to building materials – An innovative sustainable solution for waste glass. Journal of Cleaner Production, 2018, 191, 192-206.	4.6	59
49	Synthesis of calcium silicate from selective thermal transformation of waste glass and waste shell. Journal of Cleaner Production, 2018, 172, 3019-3027.	4.6	17
50	Enhancing Corrosion Resistance and Hardness Properties of Carbon Steel through Modification of Microstructure. Materials, 2018, 11, 2404.	1.3	27
51	Chapter 15 Green Manufacturing: From Waste to Value Added Materials. , 2018, , 261-279.		0
52	Evolution of Microstructure and Hardness of High Carbon Steel under Different Compressive Strain Rates. Metals, 2018, 8, 580.	1.0	7
53	Direct Transformation of Metallized Paper into Al-Si Nano-Rod and Al Nano-Particles Using Thermal Micronizing Technique. Materials, 2018, 11, 1964.	1.3	4
54	Engulfment Behavior of Inclusions in High-Carbon Steel: Theoretical and Experimental Investigation. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 2986-2997.	1.0	3

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55	Waste glass powder â€“ Innovative value-adding resource for hybrid wood-based products. Journal of Cleaner Production, 2018, 195, 215-225.	4.6	11
56	Sustainable Steel Carburization by Using Snack Packaging Plastic Waste as Carbon Resources. Metals, 2018, 8, 78.	1.0	3
57	Agglomeration Behavior of Non-Metallic Particles on the Surface of Ca-Treated High-Carbon Liquid Steel: An In Situ Investigation. Metals, 2018, 8, 176.	1.0	6
58	The Effect of Low-Quantity Cr Addition on the Corrosion Behaviour of Dual-Phase High Carbon Steel. Metals, 2018, 8, 199.	1.0	14
59	Simulation of Marine Bio-Composite Using Empirical Data Combined with Finite Element Technique. Journal of Composites Science, 2018, 2, 48.	1.4	2
60	Solid State Phase Transformation Mechanism in High Carbon Steel Under Compressive Load and with Varying Cr Percent. Minerals, Metals and Materials Series, 2018, , 797-802.	0.3	1
61	Synthesis of copper-tin nanoparticles from old computer printed circuit boards. Journal of Cleaner Production, 2017, 142, 2586-2592.	4.6	65
62	Surface Modification of Steel Using Automotive Waste as Raw Materials. Procedia Manufacturing, 2017, 7, 387-394.	1.9	3
63	Effect of small addition of Cr on stability of retained austenite in high carbon steel. Materials Characterization, 2017, 125, 114-122.	1.9	41
64	Thermocatalytic Conversion of Automotive Shredder Waste and Formation of Nanocarbons as a Process Byproduct. ACS Sustainable Chemistry and Engineering, 2017, 5, 5440-5448.	3.2	7
65	Waste conversion into high-value ceramics: Carbothermal nitridation synthesis of titanium nitride nanoparticles using automotive shredder waste. Journal of Environmental Management, 2017, 188, 32-42.	3.8	9
66	Selective thermal transformation of old computer printed circuit boards to Cu-Sn based alloy. Journal of Environmental Management, 2017, 199, 7-12.	3.8	23
67	The effect of microstructure, filler load and surface adhesion of marine bio-fillers, in the performance of Hybrid Wood-Polypropylene Particulate Bio-composite. Journal of Cleaner Production, 2017, 154, 284-294.	4.6	26
68	Hybrid structure of white layer in high carbon steel â€“ Formation mechanism and its properties. Scientific Reports, 2017, 7, 13288.	1.6	28
69	Thermal Transformation of Waste Toner Powder into a Value-Added Ferrous Resource. ACS Sustainable Chemistry and Engineering, 2017, 5, 11543-11550.	3.2	39
70	Corrosion Behaviour of Dual-Phase High Carbon Steelâ€™s Microstructure Influence. Journal of Manufacturing and Materials Processing, 2017, 1, 21.	1.0	10
71	Stability of retained austenite in high carbon steel under compressive stress: an investigation from macro to nano scale. Scientific Reports, 2016, 6, 34958.	1.6	60
72	Enhancing steel properties through in situ formation of ultrahard ceramic surface. Scientific Reports, 2016, 6, 38740.	1.6	5

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73	Green Manufacturing: A Key to Innovation Economy. Journal of Sustainable Metallurgy, 2016, 2, 273-275.	1.1	11
74	Preliminary investigation on the thermal conversion of automotive shredder residue into value-added products: Graphitic carbon and nano-ceramics. Waste Management, 2016, 50, 173-183.	3.7	34
75	Transforming automotive waste into TiN and TiC ceramics. Materials Letters, 2016, 176, 17-20.	1.3	14
76	From automotive shredder residue to nano-ceramics and graphitic carbon—Thermal degradation kinetics. Journal of Analytical and Applied Pyrolysis, 2016, 120, 60-74.	2.6	19
77	Thermal and mechanical stability of retained austenite in high carbon steel: An in - situ investigation. Materials Letters, 2016, 163, 209-213.	1.3	19
78	Materials in Metal Forming. , 2015, , 231-284.		1
79	Process Simulation of Dephosphorization Treatment of Hot Metal with High Phosphorus Content. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2014, 100, 500-508.	0.1	14
80	Development of Simulation Model for Hot Metal Dephosphorization Process. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2014, 100, 491-499.	0.1	12
81	Materials in Metal Forming. , 2013, , 1-42.		1
82	Behavior of Vanadium and Niobium during Hot Metal Dephosphorization by CaO–SiO&sub>2&sub>–Fe&sub>t&sub>O Slag. ISIJ International, 2011, 51, 1624-1630.	0.6	17
83	Simulation of Steel Refining Process in Converter. Steel Research International, 2010, 81, 617-622.	1.0	27
84	Distribution of P2O5 between Solid Solution of 2CaO&SiO2&3CaO&P2O5 and Liquid Phase. ISIJ International, 2010, 50, 822-829.	0.6	98
85	Melt quality evaluation of ductile iron by pattern recognition of thermal analysis cooling curves. Tsinghua Science and Technology, 2008, 13, 142-146.	4.1	8
86	Quick Semi-Solid Slurry Making Method Using Metallic Cup. Solid State Phenomena, 2008, 141-143, 463-468.	0.3	3
87	Effect of slope plate variable and reheating on the semi-solid structure of ductile cast iron. Tsinghua Science and Technology, 2008, 13, 147-151.	4.1	5
88	Theoretical Considerations for Thermal Control over Solid Fraction of Aluminum Alloy Slurry Prepared by Cup-Cast Method. Materials Transactions, 2007, 48, 2297-2303.	0.4	1
89	Development of Cup-Cast Method; Semi-Solid Slurry Preparation without External Stirring Force. Solid State Phenomena, 2006, 116-117, 358-361.	0.3	6
90	Semi-Solid Slurry Preparation without Additional Stirring, Cup-Cast Method. Materials Science Forum, 2006, 519-521, 1835-1840.	0.3	1

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91	Analytical Model for Heat Transfer Phenomena in Cup-Cast Method. Solid State Phenomena, 2006, 116-117, 569-572.	0.3	0
92	Investigation of heat transfer in the cup-cast method by experiment, and analytical method. WIT Transactions on Engineering Sciences, 2006, , .	0.0	0
93	Development of semi-solid ductile cast iron. International Journal of Cast Metals Research, 2004, 17, 157-161.	0.5	14
94	Quick Semi-Solid Slurry Making Method Using Metallic Cup. Solid State Phenomena, 0, , 463-468.	0.3	1