

Matteo Pavese

List of Publications by Year in descending order

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68
papers

2,098
citations

218677

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docs citations

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times ranked

2076
citing authors

#	ARTICLE	IF	CITATIONS
1	In situ alloying of AlSi10Mg-5wt% Ni through laser powder bed fusion and subsequent heat treatment. <i>Journal of Alloys and Compounds</i> , 2022, 904, 164081.	5.5	16
2	Oxidation of Carbon Nanotubes for Improving the Mechanical and Electrical Properties of Oil-Well Cement-Based Composites. <i>ACS Applied Nano Materials</i> , 2022, 5, 6671-6678.	5.0	16
3	A First Assessment of Carbon Nanotubes Grown on Oil-Well Cement via Chemical Vapor Deposition. <i>Nanomaterials</i> , 2022, 12, 2346.	4.1	1
4	Mechanical properties of mortar containing recycled <i>Acanthocardia tuberculata</i> seashells as aggregate partial replacement. <i>Boletín De La Sociedad Española De Cerámica Y Vidrio</i> , 2021, 60, 206-210.	1.9	15
5	A facile method to oxidize carbon nanotubes in controlled flow of oxygen at 350°C. <i>Materials Letters</i> , 2021, 283, 128816.	2.6	4
6	Relationship between oxygen content of graphene and mechanical properties of cement-based composites. <i>Cement and Concrete Composites</i> , 2021, 115, 103851.	10.7	28
7	Comparative Insight into the Interfacial Phase Evolutions during Solution Treatment of Dissimilar Friction Stir Welded AA2198-AA7475 and AA2198-AA6013 Aluminum Sheets. <i>Materials</i> , 2021, 14, 1290.	2.9	22
8	Improving rubber concrete strength and toughness by plasma-induced end-of-life tire rubber surface modification. <i>Plasma Processes and Polymers</i> , 2021, 18, 2100081.	3.0	17
9	On the effect of rapid annealing on the microstructure and mechanical behavior of additively manufactured stainless steel by Laser Powder Bed Fusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 828, 142109.	5.6	33
10	Recycling of WEEE Plastics Waste in Mortar: The Effects on Mechanical Properties. <i>Recycling</i> , 2021, 6, 70.	5.0	6
11	Understanding Friction and Wear Behavior at the Nanoscale of Aluminum Matrix Composites Produced by Laser Powder Bed Fusion. <i>Advanced Engineering Materials</i> , 2020, 22, 1900815.	3.5	6
12	Grain boundary transition associated intergranular failure analysis at TMAZ/SZ interface of dissimilar AA7475-AA2198 joints by friction stir welding. <i>Materials Letters</i> , 2020, 280, 128557.	2.6	25
13	Mechanical properties of mortar containing waste plastic (PVC) as aggregate partial replacement. <i>Case Studies in Construction Materials</i> , 2020, 13, e00467.	1.7	15
14	Polyvinyl butyral-based composites with carbon nanotubes: Efficient dispersion as a key to high mechanical properties. <i>Polymer Composites</i> , 2020, 41, 3627-3637.	4.6	12
15	An Analytical Mini-Review on the Compression Strength of Rubberized Concrete as a Function of the Amount of Recycled Tires Crumb Rubber. <i>Materials</i> , 2020, 13, 1234.	2.9	23
16	Reactive spontaneous infiltration of Al-activated TiO ₂ by molten aluminum. <i>Transactions of Nonferrous Metals Society of China</i> , 2019, 29, 657-666.	4.2	7
17	Corrosion behavior of AlSi10Mg alloy produced by laser powder bed fusion under chloride exposure. <i>Corrosion Science</i> , 2019, 152, 101-108.	6.6	41
18	Hydrophobic cellulose ester as a sustainable material for simple and efficient water purification processes from fatty oils contamination. <i>Wood Science and Technology</i> , 2019, 53, 249-261.	3.2	9

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19	Instrumented Indentation Test: Contact Stiffness Evaluation in the Nano-range. <i>Nanomanufacturing and Metrology</i> , 2019, 2, 16-25.	3.0	8
20	Cement-based composites containing functionalized carbon fibers. <i>Cement and Concrete Composites</i> , 2018, 88, 165-171.	10.7	77
21	Grafting carbon nanotubes onto carbon fibres doubles their effective strength and the toughness of the composite. <i>Composites Science and Technology</i> , 2018, 166, 140-149.	7.8	29
22	A Novel Cu-GNPs Nanocomposite with Improved Thermal and Mechanical Properties. <i>Acta Metallurgica Sinica (English Letters)</i> , 2018, 31, 148-152.	2.9	22
23	A Novel Approach to Enhance the Mechanical Strength and Electrical and Thermal Conductivity of Cu-GNP Nanocomposites. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 333-345.	2.2	38
24	Single scan track analyses on aluminium based powders. <i>Journal of Materials Processing Technology</i> , 2018, 255, 17-25.	6.3	70
25	Facile photo-induced growth of polymeric nanostructures onto cellulose: The poly(ethylene glycol) methacrylate (PEGMA)@cellulose case study. <i>Materials Letters</i> , 2018, 227, 202-204.	2.6	3
26	An Overview of Key Challenges in the Fabrication of Metal Matrix Nanocomposites Reinforced by Graphene Nanoplatelets. <i>Metals</i> , 2018, 8, 172.	2.3	55
27	Development and Characterisation of Aluminium Matrix Nanocomposites AlSi10Mg/MgAl2O4 by Laser Powder Bed Fusion. <i>Metals</i> , 2018, 8, 175.	2.3	24
28	Laser Powder Bed Fusion of a High Strength Al-Si-Zn-Mg-Cu Alloy. <i>Metals</i> , 2018, 8, 300.	2.3	33
29	Determination of critical condition for initiation of dynamic recrystallisation in Zr-1%Nb alloy. <i>Journal of Alloys and Compounds</i> , 2018, 757, 1-7.	5.5	9
30	An Overview of Metal Matrix Nanocomposites Reinforced with Graphene Nanoplatelets; Mechanical, Electrical and Thermophysical Properties. <i>Metals</i> , 2018, 8, 423.	2.3	57
31	Novel Magnesium Elektron21-AlN Nanocomposites Produced by Ultrasound-Assisted Casting; Microstructure, Thermal and Electrical Conductivity. <i>Materials</i> , 2018, 11, 27.	2.9	23
32	Development of Al- and Cu-based nanocomposites reinforced by graphene nanoplatelets: Fabrication and characterization. <i>Frontiers of Materials Science</i> , 2017, 11, 171-181.	2.2	28
33	Hot deformation behavior of Zr-1%Nb alloy: Flow curve analysis and microstructure observations. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 696, 366-373.	5.6	19
34	A study of the microstructure and the mechanical properties of Al-Si-Ni alloy produced via selective laser melting. <i>Journal of Alloys and Compounds</i> , 2017, 695, 1470-1478.	5.5	72
35	Microstructural and Mechanical Characterization of Aluminum Matrix Composites Produced by Laser Powder Bed Fusion. <i>Advanced Engineering Materials</i> , 2017, 19, 1700180.	3.5	31
36	Microstructure and Thermal Conductivity of Al-Graphene Composites Fabricated by Powder Metallurgy and Hot Rolling Techniques. <i>Acta Metallurgica Sinica (English Letters)</i> , 2017, 30, 675-687.	2.9	74

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37	Effect of Sample Preparation on the Microstructural Evaluation of Al-GNPs Nanocomposites. <i>Metallography, Microstructure, and Analysis</i> , 2017, 6, 619-622.	1.0	10
38	Preparation of hierarchical material by chemical grafting of carbon nanotubes onto carbon fibers. <i>Diamond and Related Materials</i> , 2017, 80, 118-124.	3.9	36
39	Effect of Solution Treatment on Precipitation Behaviors, Age Hardening Response and Creep Properties of Elektron21 Alloy Reinforced by AlN Nanoparticles. <i>Materials</i> , 2017, 10, 1380.	2.9	26
40	Effect of Process and Post-Process Conditions on the Mechanical Properties of an A357 Alloy Produced via Laser Powder Bed Fusion. <i>Metals</i> , 2017, 7, 68.	2.3	67
41	New Nanocomposite Materials with Improved Mechanical Strength and Tailored Coefficient of Thermal Expansion for Electro-Packaging Applications. <i>Metals</i> , 2017, 7, 536.	2.3	28
42	A Continuous 3D-Graphene Network to Overcome Threshold Issues and Contact Resistance in Thermally Conductive Graphene Nanocomposites. <i>Journal of Nanomaterials</i> , 2017, 2017, 1-11.	2.7	14
43	Titanium aluminides for aerospace and automotive applications processed by Electron Beam Melting: Contribution of Politecnico di Torino. <i>Metal Powder Report</i> , 2016, 71, 193-199.	0.1	85
44	Microstructure, mechanical properties and creep of magnesium alloy Elektron21 reinforced with AlN nanoparticles by ultrasound-assisted stirring. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 659, 84-92.	5.6	52
45	Electron Beam Melting of Ti-48Al-2Nb-0.7Cr-0.3Si: Feasibility investigation. <i>Intermetallics</i> , 2016, 73, 43-49.	3.9	96
46	Tribological Behavior of Aluminum Alloy AlSi10Mg-TiB ₂ Composites Produced by Direct Metal Laser Sintering (DMLS). <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 3152-3160.	2.5	44
47	Microstructural investigation of as-fabricated and heat-treated Inconel 625 and Inconel 718 fabricated by direct metal laser sintering: contribution of Politecnico di Torino and Istituto Italiano di Tecnologia (IIT) di Torino. <i>Metal Powder Report</i> , 2016, 71, 273-278.	0.1	34
48	Fabrication and characterization of laminated SiC composites reinforced with graphene nanoplatelets. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 659, 158-164.	5.6	26
49	Thermophysical Properties of Short Carbon Fiber/SiC Multilayer Composites Prepared by Tape Casting and Pressureless Sintering. <i>International Journal of Applied Ceramic Technology</i> , 2015, 12, 510-521.	2.1	5
50	Electron Beam Melting of High Niobium Containing TiAl Alloy: Feasibility Investigation. <i>Steel Research International</i> , 2012, 83, 943-949.	1.8	36
51	Self passivating behavior of multilayer SiC under simulated atmospheric re-entry conditions. <i>Journal of the European Ceramic Society</i> , 2012, 32, 4435-4445.	5.7	8
52	Corrosion Behavior of SiC Laminate Under Decomposed Sulfuric Acid at 850°C. <i>Journal of the American Ceramic Society</i> , 2012, 95, 2627-2634.	3.8	6
53	Preparation and prospective application of short carbon fiber/SiC multilayer composites by tape casting. <i>World Journal of Engineering</i> , 2011, 8, 331-334.	1.6	1
54	Compression Behaviour of Thick Vertically Aligned Carbon Nanotube Blocks. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 4240-4245.	0.9	9

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55	Oxidation Resistance of Multilayer SiC for Space Vehicle Thermal Protection Systems. <i>Advanced Engineering Materials</i> , 2010, 12, 617-622.	3.5	13
56	Effect of dc glow discharge plasma treatment on PET/TiO ₂ thin film surfaces for enhancement of bioactivity. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010, 79, 53-60.	5.0	20
57	Microstructure and mechanical properties of co-continuous metal/ceramic composites obtained from Reactive Metal Penetration of commercial aluminium alloys into cordierite. <i>Composites Part A: Applied Science and Manufacturing</i> , 2010, 41, 639-645.	7.6	29
58	Preparation and properties of NiAl(Si)/Al ₂ O ₃ co-continuous composites obtained by reactive metal penetration. <i>Composites Science and Technology</i> , 2009, 69, 1777-1782.	7.8	12
59	Mesoporous alumina obtained by combustion synthesis without template. <i>Journal of Porous Materials</i> , 2009, 16, 59-64.	2.6	19
60	Investigation on surface properties of TiO ₂ films modified by DC glow discharge plasma. <i>Current Applied Physics</i> , 2009, 9, 1032-1037.	2.4	15
61	Potential of SiC multilayer ceramics for high temperature applications in oxidising environment. <i>Ceramics International</i> , 2008, 34, 197-203.	4.8	34
62	HfB ₂ /SiC as a protective coating for 2D Cf/SiC composites: Effect of high temperature oxidation on mechanical properties. <i>Surface and Coatings Technology</i> , 2008, 202, 2059-2067.	4.8	76
63	NiAl(Si)/Al ₂ O ₃ co-continuous composites by double reactive metal penetration into silica preforms. <i>Intermetallics</i> , 2008, 16, 580-583.	3.9	10
64	Effect of porosity of cordierite preforms on microstructure and mechanical strength of co-continuous ceramic composites. <i>Journal of the European Ceramic Society</i> , 2007, 27, 131-141.	5.7	32
65	Preparation of C4 ceramic/metal composites by reactive metal penetration of commercial ceramics. <i>Composites Science and Technology</i> , 2006, 66, 350-356.	7.8	14
66	High cycle fatigue study of metal-ceramic co-continuous composites. <i>Scripta Materialia</i> , 2006, 55, 1135-1138.	5.2	26
67	Premixed metal fibre burners based on a Pd catalyst. <i>Catalysis Today</i> , 2003, 83, 19-31.	4.4	27
68	Combustion synthesis of perovskite-type catalysts for natural gas combustion. <i>Catalysis Today</i> , 2003, 83, 199-211.	4.4	220