

# Davide Mombelli

## List of Publications by Year in descending order

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59  
papers

670  
citations

567281

15  
h-index

642732

23  
g-index

59  
all docs

59  
docs citations

59  
times ranked

760  
citing authors

#	ARTICLE	IF	CITATIONS
1	The effect of chemical composition on the leaching behaviour of electric arc furnace (EAF) carbon steel slag during a standard leaching test. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 1050-1060.	6.7	56
2	The efficiency of quartz addition on electric arc furnace (EAF) carbon steel slag stability. <i>Journal of Hazardous Materials</i> , 2014, 279, 586-596.	12.4	47
3	Experimental analysis on the use of BF-sludge for the reduction of BOF-powders to direct reduced iron (DRI) production. <i>Chemical Engineering Research and Design</i> , 2016, 102, 410-420.	5.6	34
4	The effect of microstructure on the leaching behaviour of electric arc furnace (EAF) carbon steel slag. <i>Chemical Engineering Research and Design</i> , 2016, 102, 810-821.	5.6	31
5	Metallographic characterisation of Al6061-T6 aluminium plates subjected to ballistic impact. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 608, 207-220.	5.6	30
6	Performance of stainless steel foams produced by infiltration casting techniques. <i>Journal of Materials Processing Technology</i> , 2013, 213, 1846-1854.	6.3	28
7	Iron Recovery from Bauxite Tailings Red Mud by Thermal Reduction with Blast Furnace Sludge. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4902.	2.5	27
8	Survey about Safe and Reliable Use of EAF Slag. <i>ISIJ International</i> , 2012, 52, 2295-2302.	1.4	23
9	Investigation of failure and damages on a continuous casting copper mould. <i>Engineering Failure Analysis</i> , 2014, 36, 432-438.	4.0	23
10	Air-breathing bio-cathodes based on electro-active biochar from pyrolysis of Giant Cane stalks. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 4496-4507.	7.1	23
11	$\hat{\Gamma}^3$ Decomposition in Fe-Mn-Al-C lightweight steels. <i>Journal of Materials Research and Technology</i> , 2020, 9, 4604-4616.	5.8	23
12	Isothermal Austenite-Ferrite Phase Transformations and Microstructural Evolution during Annealing in Super Duplex Stainless Steels. <i>Metals</i> , 2017, 7, 368.	2.3	22
13	Analisis of Electric Arc Furnace Slag. <i>Steel Research International</i> , 2012, 83, 1012-1019.	1.8	19
14	Laboratory investigation of Waelz slag stabilization. <i>Chemical Engineering Research and Design</i> , 2015, 94, 227-238.	5.6	19
15	Characterization of cast iron and slag produced by jarosite sludges reduction via Arc Transferred Plasma (ATP) reactor. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 773-783.	6.7	18
16	Jarosite wastes reduction through blast furnace sludges for cast iron production. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 102966.	6.7	17
17	Critical evaluation of role of viscosity and gas flowrate on slag foaming. <i>Ironmaking and Steelmaking</i> , 2012, 39, 463-469.	2.1	16
18	EAF Slag Treatment for Inert Materials™ Production. <i>Journal of Sustainable Metallurgy</i> , 2016, 2, 3-12.	2.3	16

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19	Comparison of the combined oxidation and sulphidation behavior of nickel- and cobalt-based alloys at high temperature. <i>Journal of Materials Research and Technology</i> , 2020, 9, 15679-15692.	5.8	12
20	Future Scenarios for Reducing Emissions and Consumption in the Italian Steelmaking Industry. <i>Steel Research International</i> , 2022, 93, 2100631.	1.8	12
21	Comparison between symmetric and asymmetric hot rolling techniques performed on duplex stainless steel 2205. <i>International Journal of Material Forming</i> , 2013, 6, 327-339.	2.0	11
22	Processing and Characterization of Dual Phase Steel Foams Featured by Different Pore Distribution. <i>Steel Research International</i> , 2011, 82, 918-925.	1.8	10
23	Microstructural investigation on an Al 6061 T6 alloy subjected to ballistic impact C. <i>Procedia Engineering</i> , 2011, 10, 3447-3452.	1.2	8
24	Corrosion and Oxidation Behavior of a Fe-Al-Mn-C Duplex Alloy. <i>Materials</i> , 2019, 12, 2572.	2.9	8
25	Investigation on the Chemical and Thermal Behavior of Recycling Agglomerates from EAF by-Products. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8309.	2.5	8
26	Effect of Heat Treatment and of Primary Austenite Grain Size on the Minimum Size of Detectable Defect on 26NiCrMoV11.5 High Strength Steel. <i>Advanced Engineering Materials</i> , 2014, 16, 103-111.	3.5	7
27	Thermal and chemical analysis of massive use of hot briquetted iron inside basic oxygen furnace. <i>Journal of Iron and Steel Research International</i> , 2017, 24, 901-907.	2.8	7
28	Solidification microstructure of centrifugally cast Inconel 625. <i>China Foundry</i> , 2017, 14, 304-312.	1.4	7
29	The Influence of Slag Tapping Method on the Efficiency of Stabilization Treatment of Electric Arc Furnace Carbon Steel Slag (EAF-C). <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 706.	2.0	7
30	Characterization of cast iron and slag produced by red muds reduction via Arc Transferred Plasma (ATP) reactor under different smelting conditions. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104293.	6.7	7
31	Processing and Characterization of Self-Reducing Briquettes Made of Jarosite and Blast Furnace Sludges. <i>Journal of Sustainable Metallurgy</i> , 2021, 7, 1603-1626.	2.3	7
32	JMAK model applied on the $\text{Fe}_3\text{C}$ -carbide precipitation in FeMnAlC steels. <i>Journal of Materials Research and Technology</i> , 2021, 15, 3386-3398.	5.8	7
33	Investigation of Failure in a Crankpin of a Motorcycle Engine. <i>Journal of Failure Analysis and Prevention</i> , 2012, 12, 123-129.	0.9	6
34	Hot-Dip Aluminizing on AISI F55â€“UNS S32760 Super Duplex Stainless Steel Properties: Effect of Thermal Treatments. <i>Metals</i> , 2017, 7, 525.	2.3	6
35	Impact of Warm Rolling Process Parameters on Crystallographic Textures, Microstructure and Mechanical Properties of Low-Carbon Boron-Bearing Steels. <i>Metals</i> , 2018, 8, 927.	2.3	6
36	Effects of Basicity and Mesh on Cr Leaching of EAF Carbon Steel Slag. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 121.	2.5	6

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37	Model for the final decarburisation of the steel bath through a self-bubbling effect. Ironmaking and Steelmaking, 2019, 46, 721-724.	2.1	6
38	Influence of the residual stresses induced by tool wear on the failure of brass electro-valves. Engineering Failure Analysis, 2013, 27, 141-149.	4.0	5
39	Model for Phosphorus Removal in LD Converter and Design of a Valuable Operative Practice. Steel Research International, 2018, 89, 1700467.	1.8	5
40	Fabrication of Agglomerates from Secondary Raw Materials Reinforced with Paper Fibres by Stamp Pressing Process. Applied Sciences (Switzerland), 2019, 9, 3946.	2.5	5
41	Processing and characterization of dual phase steel foam. Revista Materia, 2010, 15, 182-188.	0.2	4
42	Survey about effects of shot peening conditions on fatigue performances of Ti-6Al-4V mechanical specimens featured by different cross-section geometries. Materials Science and Technology, 2012, 28, 543-548.	1.6	4
43	Viability Study of the Use of Cast Iron Open Cell Foam as Microbial Fuel Cell Electrodes. Advanced Engineering Materials, 2013, 15, 112-117.	3.5	4
44	Relation between Ductile Fracture Locus and Deformation of Phases in Ti-6Al-4V Alloy. ISIJ International, 2013, 53, 2250-2258.	1.4	4
45	Modeling of a Continuous Charging Electric Arc Furnace Metallic Loss Based on the Charge Mix. Steel Research International, 2021, 92, 2000580.	1.8	4
46	Mechanical and tribo-metallurgical behavior of 17-4 precipitation hardening stainless steel affected by severe cold plastic deformation: a comprehensive review article. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2022, 44, .	1.6	4
47	Study on the Pneumatic Lime Injection in the Electric Arc Furnace Process: An Evaluation on the Performance Benefits. Steel Research International, 2021, 92, 2100083.	1.8	3
48	Production of 17CrMoV5-11 steel sponges utilising powder metallurgical replication technique with SiC as space holder. Powder Metallurgy, 2016, 59, 95-99.	1.7	2
49	Influence of Different Soaking Times at 1050 °C on the UT Response Due to Microstructure Evolution of 2205 Duplex Stainless Steel. Metals, 2020, 10, 503.	2.3	2
50	Crystallographic Analysis of Specimens Used for Calibrate a Failure Model for an Al 6061 - T6 Alloy. Key Engineering Materials, 0, 488-489, 89-92.	0.4	1
51	Determining Elastic-Plastic Properties of Al6061-T6 from Micro-Indentation Technique. Key Engineering Materials, 0, 592-593, 610-613.	0.4	1
52	Suitability of Self-Reducing and Slag-Forming Briquettes for EAF Use based on Laboratory Tests. Steel Research International, 0, , 2100472.	1.8	1
53	Effect of tinned scraps surface-to-volume ratio on the efficiency of the electrolytic detinning process. Journal of Materials Research and Technology, 2022, 19, 1217-1230.	5.8	1
54	Anomalous corrosion phenomena observed on electrovalves of coffee espresso machines. Engineering Failure Analysis, 2013, 33, 449-456.	4.0	0

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55	Hardening Optimization of High Chromium-manganese Austenitic Steel. ISIJ International, 2016, 56, 1668-1674.	1.4	0
56	Microstructure Evolution and Properties of Hastelloy UNS N06200 and UNS N06022 as a Function of the Applied Thermal Treatment. International Journal of Metalcasting, 2017, 11, 456-466.	1.9	0
57	The Influence of Thermomechanical Processing Conditions on the Evolution of Microstructure and Crystallographic Textures and the Mechanical Properties of Deformed Mild Steels in the Intercritical Region. Advances in Materials Science and Engineering, 2018, 2018, 1-7.	1.8	0
58	Metallographic and microstructural investigation on copper based nails of the Roman Empire Age. Revue De Metallurgie, 2012, 109, 203-216.	0.3	0
59	Heat treatment cycle optimization for A707L5 copper-nickel steel. Metallurgical Research and Technology, 2015, 112, 406.	0.7	0