

# Jose Castro

## 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.

160  
papers

1,164  
citations

17  
h-index

29  
g-index

189  
ext. papers

1,388  
ext. citations

1.5  
avg, IF

4.71  
L-index

#	Paper	IF	Citations
160	Microalgae bioremediation and CO <sub>2</sub> fixation of industrial wastewater. <i>Cleaner Engineering and Technology</i> , <b>2022</b> , 8, 100466	2.7	1
159	Sodium alginate polymer as a kinetic inhibitor of methane hydrate formation. <i>Journal of Materials Research and Technology</i> , <b>2021</b> , 12, 1999-2010	5.5	1
158	Evaluation of MgZnCa Alloys Fabricated Via Powder Metallurgy for Manufacturing Biodegradable Surgical Implants. <i>Jom</i> , <b>2021</b> , 73, 2403-2412	2.1	0
157	Microalgae Technique for Bioremediation Treatment of Cassava Wastewater. <i>Water, Air, and Soil Pollution</i> , <b>2021</b> , 232, 1	2.6	4
156	Formulation and characterization of crosslinked polyvinyl alcohol (PVA) membranes: effects of the crosslinking agents. <i>Polymer Bulletin</i> , <b>2021</b> , 78, 917-929	2.4	10
155	Analysis of the Carbothermic Reduction of Iron Ore-Coke Composite Mixtures by Microwave Heating. <i>Materials Research</i> , <b>2021</b> , 24,	1.5	1
154	A degradation kinetics model of MgZnMnCa alloys in Kokubo solution. <i>Journal of Materials Research and Technology</i> , <b>2021</b> , 11, 887-895	5.5	3
153	Evaluation of the impact of cluster formation in a direct reduction shaft furnace through numerical simulation. <i>REM: International Engineering Journal</i> , <b>2021</b> , 74, 451-461	0.4	
152	Impact of ZnO Concentration on the Stability of Agglomerates of TiO <sub>2</sub> Engineered Nanoparticles: Effects of the pH, Ionic Strength and Zeta Potential. <i>Materials Science Forum</i> , <b>2020</b> , 1012, 167-172	0.4	0
151	A Comprehensive Modeling as a Tool for Developing New Mini Blast Furnace Technologies Based on Biomass and Hydrogen Operation. <i>Journal of Sustainable Metallurgy</i> , <b>2020</b> , 6, 281-293	2.7	7
150	Effects of an External Magnetic Field on the Microstructural and Mechanical Properties of the Fusion Zone in TIG Welding. <i>Metals</i> , <b>2020</b> , 10, 714	2.3	1
149	Inhibition of the oxygen evolution reaction during titanium passivation in aqueous phosphoric acid solution. <i>Journal of Solid State Electrochemistry</i> , <b>2020</b> , 24, 1991-1998	2.6	0
148	Calculation of Recoil Curves in Isotropic and Anisotropic Stoner-Wohlfarth Materials. <i>IEEE Transactions on Magnetics</i> , <b>2020</b> , 56, 1-4	2	2
147	Numerical Analysis of Raceway Formation in Isothermal and Non-reactive Packed Bed. <i>ISIJ International</i> , <b>2020</b> , 60, 2669-2677	1.7	3
146	Effects of Zn content on surface deformability and corrosion resistance of MgZnMnCa alloys. <i>International Journal of Materials Research</i> , <b>2020</b> , 111, 511-518	0.5	2
145	Effects of addition of engineered ZnO nanoparticles on the stability of colloidal suspensions containing TiO <sub>2</sub> interacting with sandy soil. <i>REM: International Engineering Journal</i> , <b>2020</b> , 73, 205-212	0.4	
144	Correlation Among the Input Thermal Parameters and Thermography Measurements Data of the Resistance Seam Welding. <i>Materials Research</i> , <b>2020</b> , 23,	1.5	1

143	Analysis of a compact iron ore sintering process based on agglomerated biochar and gaseous fuels using a 3D multiphase multicomponent mathematical model. <i>Journal of Materials Research and Technology</i> , <b>2020</b> , 9, 6001-6013	5.5	2
142	Effect of polymer aggregation on the kinetics of hydrate formation. <i>Journal of Natural Gas Science and Engineering</i> , <b>2020</b> , 73, 103053	4.6	3
141	Ellipsometric characterization of surface films on AZ31 magnesium alloy exposed to a Na <sub>2</sub> SO <sub>4</sub> solution. <i>Journal of Materials Research and Technology</i> , <b>2020</b> , 9, 10175-10183	5.5	
140	The Mini Blast Furnace Process: An Efficient Reactor for Green Pig Iron Production Using Charcoal and Hydrogen-Rich Gas: A Study of Cases. <i>Metals</i> , <b>2020</b> , 10, 1501	2.3	5
139	Evaluation of the diffusional coefficient in the acid baking process using microwave energy to reduce phosphorus content in iron ore particles. <i>Minerals Engineering</i> , <b>2020</b> , 157, 106541	4.9	3
138	Evaluation of mechanical properties of porous alumina ceramics obtained using rice husk as a porogenic agent. <i>Ceramica</i> , <b>2019</b> , 65, 70-74	1	2
137	An overview on nucleation theories and models. <i>Journal of Rare Earths</i> , <b>2019</b> , 37, 1015-1022	3.7	5
136	Modeling and computational simulation of fluid flow, heat transfer and inclusions trajectories in a tundish of a steel continuous casting machine. <i>Journal of Materials Research and Technology</i> , <b>2019</b> , 8, 4209-4220	5.5	15
135	Comparing two different arc welding processes through the welding energy: a selection analysis based on quality and energy consumption. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , <b>2019</b> , 41, 1	2	1
134	Modeling the Transport of Hazardous Colloidal Suspensions of Nanoparticles Within Soil of Landfill Layers Considering Multicomponent Interactions. <i>Journal of Sustainable Metallurgy</i> , <b>2019</b> , 5, 581-593	2.7	2
133	Characterization of cassava biomass using differential scanning calorimetry and thermogravimetry for energy purposes. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2019</b> , 138, 3811-3823	4.1	0
132	Determination of heat capacity of pure metals, compounds and alloys by analytical and numerical methods. <i>Thermochimica Acta</i> , <b>2019</b> , 682, 178418	2.9	7
131	Predicting Recoil Curves in Stoner-Wohlfarth Anisotropic Magnets. <i>Acta Physica Polonica A</i> , <b>2019</b> , 136, 737-739	0.6	3
130	Evaluation of the Acid Baking Technique to Decrease the Phosphorus Content of the Iron Ore. <i>Materials Research</i> , <b>2019</b> , 22,	1.5	2
129	Computational Analysis of The Performance of Shaft Furnaces with Partial Replacement of The Burden with Self-Reducing Pellets Containing Biomass. <i>Materials Research</i> , <b>2019</b> , 22,	1.5	1
128	On the prediction of temperature-dependent viscosity of multicomponent liquid alloys. <i>Continuum Mechanics and Thermodynamics</i> , <b>2019</b> , 31, 1369-1385	3.5	7
127	Replacement of NdFeB by Ferrite Magnets. <i>Materials Science Forum</i> , <b>2018</b> , 912, 106-111	0.4	
126	Hysteresis Modeling of Bonded Anisotropic Ferrite Magnets. <i>Materials Science Forum</i> , <b>2018</b> , 912, 102-105.4	0.4	1

125	Analyzing cleaner alternatives of solid and gaseous fuels for iron ore sintering in compacts machines. <i>Journal of Cleaner Production</i> , <b>2018</b> , 198, 654-661	10.3	11
124	Avalia <sup>ç</sup> o de Eletrodos de Solda a Ponto por Resist <sup>ê</sup> ncia El <sup>ê</sup> trica Revestidos com Cromo em Solda de Zircalloy. <i>Soldagem E Inspecao</i> , <b>2018</b> , 23, 350-363	0.3	1
123	Evaluation of the effect of the thermal cycle on the characteristics of welded joints through the variation of the heat input of the austhenitic AISI 316L steels by the GMAW process. <i>Science and Technology of Materials</i> , <b>2018</b> , 30, 51-59		7
122	Avalia <sup>ç</sup> o de Par <sup>â</sup> metros de Soldagem nas Caracter <sup>í</sup> sticas de Juntas Dissimilares Inconel 718 - Inox 316L Soldadas pelo Processo TIG Aut <sup>ô</sup> geno. <i>Soldagem E Inspecao</i> , <b>2018</b> , 23, 380-392	0.3	3
121	Ellipsometric Characterization of AZ31 Magnesium Alloy. <i>Materials Science Forum</i> , <b>2018</b> , 930, 478-483	0.4	2
120	Mathematical modeling of the shaft furnace process for producing DRI based on the multiphase theory. <i>REM: International Engineering Journal</i> , <b>2018</b> , 71, 81-87	0.4	3
119	Experimental Investigation of Ternary Al-Si-Cu Alloy Solidified with Unsteady-State Heat Flow Conditions. <i>Materials Research</i> , <b>2018</b> , 21,	1.5	3
118	Synthesis and Characterization by Ellipsometry of Cationic Membranes for Fuel Cells. <i>Materials Science Forum</i> , <b>2018</b> , 930, 625-630	0.4	2
117	Estimate of the Nanoparticles Size of Magnetite Produced by Co-Precipitation Method. <i>Materials Science Forum</i> , <b>2018</b> , 930, 90-94	0.4	
116	Effects of Heat Input Conditions on the Local Thermophysical Properties of Super Duplex Stainless Steels. <i>Materials Science Forum</i> , <b>2018</b> , 930, 317-321	0.4	0
115	Numerical and experimental study of the microstructural evolution and the properties of joints welded on rebars using the GMAW process. <i>Welding International</i> , <b>2017</b> , 31, 425-434	0.1	1
114	Three-Dimensional Microstructure Reconstruction and Phase Boundary by Serial Sectioning and Numerical Approach. <i>Materials Science Forum</i> , <b>2017</b> , 899, 395-399	0.4	
113	A Finite Element Analysis for an Iron Ore Pellet Compression Test. <i>Materials Science Forum</i> , <b>2017</b> , 899, 474-477	0.4	
112	Effects of the silica nanoparticles (NPSiO <sub>2</sub> ) on the stabilization and transport of hazardous nanoparticle suspensions into landfill soil columns. <i>REM: International Engineering Journal</i> , <b>2017</b> , 70, 317-323	0.4	4
111	Sigma Phase in Superduplex Stainless Steel: Formation, Kinetics and Microstructural Path. <i>Materials Research</i> , <b>2017</b> , 20, 249-255	1.5	24
110	Effects of Local Heat Input Conditions on the Thermophysical Properties of Super Duplex Stainless Steels (SDSS). <i>Materials Research</i> , <b>2017</b> , 20, 153-161	1.5	1
109	Predicting Secondary-Dendrite Arm Spacing of the Al-4.5wt%Cu Alloy During Unidirectional Solidification. <i>Materials Research</i> , <b>2017</b> , 20, 68-75	1.5	9
108	Thermal Aging of NdFeB Compression Molded Magnets. <i>Materials Science Forum</i> , <b>2017</b> , 899, 572-575	0.4	

107	A theoretical study using the multiphase numerical simulation technique for effective use of H <sub>2</sub> as blast furnaces fuel. <i>Journal of Materials Research and Technology</i> , <b>2017</b> , 6, 258-270	5.5	17
106	Evolution of Sintering of Particles that Compose Iron Ore Agglomerates. <i>Materials Science Forum</i> , <b>2017</b> , 899, 371-376	0.4	
105	Analysis of the Microwave Heating Effect in the Comminution Efficiency of Iron Ore Particles. <i>Materials Science Forum</i> , <b>2017</b> , 899, 383-388	0.4	
104	Magnetite Nanoparticles Study Applied to Magnetic Hyperthermia Treatment. <i>Materials Science Forum</i> , <b>2017</b> , 899, 543-548	0.4	0
103	B-H Loop of Sintered Stainless Steel 410 Adjusted by Superellipse Model. <i>Materials Science Forum</i> , <b>2017</b> , 899, 554-558	0.4	
102	Effect of Compaction Pressure on the Hysteresis Loop of NdFeB Bonded Magnets. <i>Materials Science Forum</i> , <b>2017</b> , 899, 576-580	0.4	1
101	Study of the Effects of SiO <sub>2</sub> Nanoparticles Concentration on the TiO <sub>2</sub> Nanoparticles Suspensions Stabilization. <i>Materials Science Forum</i> , <b>2017</b> , 899, 232-236	0.4	
100	Kinetic Behavior of Self-Reducing Pellets Containing Coal of Elephant Grass. <i>Materials Science Forum</i> , <b>2017</b> , 899, 377-382	0.4	
99	Analysis of the Iron Ore Pellet Mechanical Behavior under Biaxial Compression. <i>Materials Science Forum</i> , <b>2017</b> , 899, 448-451	0.4	0
98	Microstructural, Mechanical, and Electrochemical Analysis of Duplex and Superduplex Stainless Steels Welded with the Autogenous TIG Process Using Different Heat Input. <i>Metals</i> , <b>2017</b> , 7, 538	2.3	13
97	Hysteresis Modeling of NdFeB Magnets with High Nd. <i>Materials Science Forum</i> , <b>2016</b> , 869, 585-590	0.4	1
96	Kinetic of Self-Reducing Mixtures of Iron Ore and Biomass of Elephant Grass. <i>Materials Science Forum</i> , <b>2016</b> , 869, 1007-1012	0.4	3
95	Characterization of Residual Stresses and Microstructural by Technique of Magnetic Barkhausen Noise of API 5L X80 Steel Heat Treatment. <i>Materials Science Forum</i> , <b>2016</b> , 869, 556-561	0.4	3
94	Evaluation of Martensite Fraction in 1026 Steel by Infrared Thermography Combined with the Koistinen-Marburger Model. <i>Materials Science Forum</i> , <b>2016</b> , 869, 411-415	0.4	
93	Application of Computational Thermodynamics to the Evolution of Surface Tension and Gibbs-Thomson Coefficient during Multicomponent Aluminum Alloy Solidification. <i>Materials Science Forum</i> , <b>2016</b> , 869, 416-422	0.4	4
92	Study of the Interaction of Copper Nanoparticles with Titanium in Landfill Soils Layers. <i>Materials Science Forum</i> , <b>2016</b> , 869, 778-783	0.4	4
91	Displacement of the Ignition Furnace in the Iron Ore Sintering with Re-Circulation of Waste Gases. <i>Materials Science Forum</i> , <b>2016</b> , 869, 643-648	0.4	2
90	Predictions of PCDD/F, SO <sub>x</sub> , NO <sub>x</sub> , and Particulates in the Iron Ore Sintering Process of Integrated Steelworks <b>2016</b> , 27-38		1

89	Numerical Predictions for the Thermal History, Microstructure and Hardness Distributions at the HAZ during Welding of Low Alloy Steels. <i>Materials Research</i> , <b>2016</b> , 19, 520-533	1.5	12
88	Kinetic Study on Martensite Formation in Steels 1045 and 4340 under Variable Cooling Rates. <i>Materials Science Forum</i> , <b>2016</b> , 869, 550-555	0.4	1
87	Evaluation of Residual Stresses in Welded ASTM A36 Structural Steel by Metal Active Gas (MAG) Welding Process. <i>Materials Science Forum</i> , <b>2016</b> , 869, 567-571	0.4	3
86	Perspectives for the Brazilian Industry of Rare-Earth Magnets. <i>Materials Science Forum</i> , <b>2016</b> , 869, 602-607	0.4	1
85	Hysteresis Modeling of Nanocrystalline NdFeB Magnets. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2015</b> , 28, 847-850	1.5	3
84	Application of computational thermodynamics to the determination of thermophysical properties as a function of temperature for multicomponent Al-based alloys. <i>Thermochimica Acta</i> , <b>2015</b> , 619, 1-7	2.9	11
83	Avaliaç�o da rota de reduç�o do teor do elemento f�sforo contido no min�rio de ferro atrav�s da t�cnica de aquecimento por energia de micro-ondas seguida de lixiviaç�o. <i>C�ncia &amp; Tecnologia Dos Materiais</i> , <b>2015</b> , 27, 63-72		
82	Estudo Num�rico e Experimental da Evoluç�o Microestrutural e das Propriedades de Juntas Soldadas de Vergalh�es pelo Processo GMAW. <i>Soldagem E Inspecao</i> , <b>2015</b> , 20, 434-445	0.3	4
81	An Experimental and Numerical Approach for the Welding Effects on the Duplex Stainless Steel Microstructure. <i>Materials Research</i> , <b>2015</b> , 18, 489-502	1.5	21
80	Study of electroflotation method for treatment of wastewater from washing soil contaminated by heavy metals. <i>Journal of Materials Research and Technology</i> , <b>2015</b> , 4, 109-113	5.5	51
79	Migration of inorganic ions from the leachate of the Rio das Ostras landfill: a comparison of three different configurations of protective barriers. <i>Waste Management</i> , <b>2014</b> , 34, 2285-91	8.6	5
78	Sintered Fe50Ni Alloy Produced by Mixing Iron and Nickel Powders. <i>Materials Science Forum</i> , <b>2014</b> , 802, 524-529	0.4	2
77	Characterization and three-dimensional reconstruction of pores of self-reducing pellets done by EAF dust. <i>Materials Research</i> , <b>2014</b> , 17, 47-55	1.5	2
76	Model Predictions for New Iron Ore Sintering Process Technology Based on Biomass and Gaseous Fuels. <i>Advanced Materials Research</i> , <b>2014</b> , 918, 136-144	0.5	8
75	Modeling a Compact Sintering Process Based on Biomass Fuels. <i>Advanced Materials Research</i> , <b>2014</b> , 902, 33-40	0.5	0
74	Influence of the Grain Size on the Dysprosium Diffusion in NdFeB Magnets. <i>Materials Science Forum</i> , <b>2014</b> , 802, 546-551	0.4	1
73	2D Phase-Field Simulation of the Directional Solidification Process. <i>Applied Mechanics and Materials</i> , <b>2014</b> , 704, 17-21	0.3	3
72	Phase Field Simulations of Dendritic Crystal Growth with Focus on the Computational Efficiency. <i>Advanced Materials Research</i> , <b>2014</b> , 1025-1026, 745-748	0.5	1

71	Predictions of Xylene Adsorption on Agglomerated Activated Carbon Pellets in a Fixed Bed Column. <i>Materials Science Forum</i> , <b>2014</b> , 802, 636-641	0.4	
70	Magnetic Domains Observation from Bitter Patterns of NdFeB Alloy. <i>Materials Science Forum</i> , <b>2014</b> , 802, 569-573	0.4	1
69	Modeling the Neodymium Metallic Reduction from Molten Salts. <i>Materials Science Forum</i> , <b>2014</b> , 802, 607-612	0.4	
68	Stoner-Wohlfarth Model for Nanocrystalline Anisotropic Sm <sub>2</sub> Co <sub>17</sub> Magnets. <i>Materials Science Forum</i> , <b>2014</b> , 775-776, 431-436	0.4	10
67	MSW Leachate Inorganic Ion Diffusion through Compacted Soil and HDPE Geomembrane Barrier - Laboratory Experiments and Model Validation. <i>Materials Science Forum</i> , <b>2014</b> , 802, 630-635	0.4	2
66	Application of Nanoparticle Tracking Analysis (NTA) in Aqueous Solutions of TiO <sub>2</sub> . <i>Materials Science Forum</i> , <b>2014</b> , 802, 624-629	0.4	5
65	Characterization of BOF Dust for Pellets Production Used in Blast Furnace. <i>Materials Science Forum</i> , <b>2014</b> , 798-799, 611-616	0.4	3
64	Densification Behaviour Modelling for Metallic Powders. <i>Materials Science Forum</i> , <b>2014</b> , 802, 317-322	0.4	
63	Upper Limit for the Coercive Force in NdFeB and PrFeB Magnets. <i>Materials Science Forum</i> , <b>2014</b> , 802, 596-600	0.4	1
62	Experimental Analysis of Behavior in TiO <sub>2</sub> Nanoparticle Suspension. <i>Materials Science Forum</i> , <b>2014</b> , 802, 163-167	0.4	
61	Squareness of NdFeB Stoner-Wohlfarth Hysteresis. <i>Materials Science Forum</i> , <b>2014</b> , 802, 601-606	0.4	
60	Thermal Analysis Investigation of NdFeB Bonded Magnets. <i>Materials Science Forum</i> , <b>2014</b> , 802, 590-595	0.4	
59	Microstructural Characterization of a High Copper (Nd <sub>0.75</sub> Pr <sub>0.25</sub> ) <sub>2</sub> Fe <sub>14</sub> B Magnet. <i>Materials Science Forum</i> , <b>2014</b> , 802, 518-523	0.4	
58	Evaluation of Heat Absorption in Iron Ore Using Microwave Energy Source. <i>Materials Science Forum</i> , <b>2014</b> , 802, 367-372	0.4	
57	Grain Growth Kinetics of (NdPr) <sub>2</sub> Fe <sub>14</sub> B Magnets. <i>Materials Science Forum</i> , <b>2014</b> , 802, 540-545	0.4	1
56	Relation between Initial Magnetization Curve and Grain Size of Nanocrystalline NdFeB Magnets. <i>Materials Science Forum</i> , <b>2014</b> , 802, 558-562	0.4	2
55	Stoner-Wohlfarth model for the anisotropic case. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2013</b> , 345, 147-152	2.8	28
54	Model predictions of PCDD and PCDF emissions on the iron ore sintering process based on alternative gaseous fuels. <i>Journal of Materials Research and Technology</i> , <b>2013</b> , 2, 323-331	5.5	17



53	Analysis of the combined injection of pulverized coal and charcoal into large blast furnaces. <i>Journal of Materials Research and Technology</i> , <b>2013</b> , 2, 308-314	5.5	36
52	Study of the induration phenomena in single pellet to traveling grate furnace. <i>Journal of Materials Research and Technology</i> , <b>2013</b> , 2, 315-322	5.5	7
51	Analysis of synthetic natural gas injection into charcoal blast furnace. <i>Journal of Materials Research and Technology</i> , <b>2013</b> , 2, 255-262	5.5	15
50	Microstructural changes during the slow-cooling annealing of nanocrystalline SmCo 2:17 type magnets. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 551, 312-317	5.7	17
49	Numerical method applied to duplex stainless steel welding. <i>Ironmaking and Steelmaking</i> , <b>2013</b> , 40, 420-429	5.9	7
48	ESTUDO NUMÉRICO DA INFLUÊNCIA DE PROPRIEDADES DE AMOLECIMENTO E FUSÃO NA CINÉTICA DE FORMAÇÃO DE (CaFe <sub>2</sub> O <sub>4</sub> -Ca <sub>2</sub> Fe <sub>2</sub> O <sub>5</sub> ) NA SINTERIZAÇÃO DE MINÉRIO DE FERRO. <i>Tecnologia Em Metalurgia, Materiais E Mineracao</i> , <b>2013</b> , 10, 17-27	1.7	4
47	Three dimensional mathematical model of the iron ore sintering process based on multiphase theory. <i>Materials Research</i> , <b>2012</b> , 15, 848-858	1.5	28
46	Modeling Sintering Process of Iron Ore <b>2012</b> ,		2
45	Utilização de gás de coque na sinterização de minério de ferro. <i>Revista Escola De Minas</i> , <b>2012</b> , 65, 357-362	8	
44	Modelamento da utilização de aglomerado autorredutor em minialto-forno com recirculação de gás de topo. <i>Revista Escola De Minas</i> , <b>2012</b> , 65, 65-71		1
43	Modeling, simulation and identification for control of tandem cold metal rolling. <i>Materials Research</i> , <b>2012</b> , 15, 928-936	1.5	4
42	Analysis by multiphase multicomponent model of iron ore sintering based on alternative steelworks gaseous fuels. <i>Ironmaking and Steelmaking</i> , <b>2012</b> , 39, 605-613	1.3	17
41	Solid state steelmaking by decarburisation of rapidly solidified high carbon iron sheet. <i>Ironmaking and Steelmaking</i> , <b>2012</b> , 39, 530-534	1.3	9
40	Modeling the Densification of 316L Stainless Steels. <i>Materials Science Forum</i> , <b>2012</b> , 727-728, 440-445	0.4	3
39	Modeling the Densification of FeSi Sintered Magnetic Alloys. <i>Materials Science Forum</i> , <b>2012</b> , 727-728, 175-180	0.4	2
38	One Domain Wall Hysteresis Model for Spherical Grain. <i>Materials Science Forum</i> , <b>2012</b> , 727-728, 140-145	0.4	5
37	Nucleus Size Determination for Nd <sub>2</sub> Fe <sub>14</sub> B, Sm <sub>2</sub> Co <sub>17</sub> , SmCo <sub>5</sub> and BaFe <sub>12</sub> O <sub>19</sub> Magnets. <i>Materials Science Forum</i> , <b>2012</b> , 727-728, 151-156	0.4	10
36	Study of Iron Nanopowders into Fluids of Industrial Lubrication. <i>Materials Science Forum</i> , <b>2012</b> , 727-728, 1654-1659	0.4	1



35	A Theoretical Study on BTX Adsorption into the Surface of Compacted Activated Carbon Powders. <i>Materials Science Forum</i> , <b>2012</b> , 727-728, 1660-1665	0.4	1
34	Modeling the Welding Process of the Low Alloy Ferritic Steels T/P23 and T/P24. <i>Advanced Materials Research</i> , <b>2012</b> , 476-478, 642-649	0.5	2
33	Modeling the Heat Treatment of Dy-Diffused Nd <sub>2</sub> Fe <sub>14</sub> B Magnets: The Shell Model. <i>Materials Science Forum</i> , <b>2012</b> , 727-728, 146-150	0.4	6
32	Modeling the Transport Phenomena of TiO <sub>2</sub> Nanoparticles into Leachate of Municipal Waste Landfills. <i>Materials Science Forum</i> , <b>2012</b> , 727-728, 1695-1700	0.4	9
31	Three-Dimensional Reconstruction of the Porosity of Pellets of Iron Oxide and Coal Powders by Serial Sectioning. <i>Materials Science Forum</i> , <b>2012</b> , 727-728, 26-31	0.4	2
30	Iron Ore Sintering Process Based on Alternative Gaseous Fuels from Steelworks. <i>Advanced Materials Research</i> , <b>2012</b> , 535-537, 554-560	0.5	4
29	Compara <sup>ç</sup> o da efici <sup>ê</sup> ncia de tr <sup>â</sup> ns materiais na sor <sup>ç</sup> o e difus <sup>o</sup> dos <sup>o</sup> ns met <sup>o</sup> licos atrav <sup>ê</sup> s de ensaios experimentais e simula <sup>ç</sup> o computacional. <i>Revista Escola De Minas</i> , <b>2011</b> , 64, 471-478		
28	Numerical evaluation of the weldability of the low alloy ferritic steels T/P23 and T/P24. <i>Materials Research</i> , <b>2011</b> , 14, 73-90	1.5	11
27	A Six-phases 3-D Model to Study Simultaneous Injection of High Rates of Pulverized Coal and Charcoal into the Blast Furnace with Oxygen Enrichment. <i>ISIJ International</i> , <b>2011</b> , 51, 748-758	1.7	47
26	The Critical Volume for Nucleation. <i>Materials Science Forum</i> , <b>2010</b> , 660-661, 279-283	0.4	14
25	Optimizing the Heat Treatment of Rare Earth-Transition Metal Sintered Magnets. <i>Materials Science Forum</i> , <b>2010</b> , 660-661, 290-295	0.4	8
24	Study of Hydrate Formation Kinetics in Petroleum Pipes by the Phase Field. <i>Heat Transfer Engineering</i> , <b>2009</b> , 30, 309-315	1.7	2
23	ESTUDO NUM <sup>É</sup> RICO DA RECICLAGEM DE CO <sub>2</sub> NA ZONA DE COMBUST <sup>o</sup> DO ALTO FORNO. <i>Tecnologia Em Metalurgia E Materiais</i> , <b>2009</b> , 6, 13-18		5
22	Simula <sup>ç</sup> o transiente de um reator de leito fluidizado em 3D. <i>Revista Escola De Minas</i> , <b>2009</b> , 62, 59-64		
21	Ethanol consumption impairs regulation of fatty acid metabolism by decreasing the activity of AMP-activated protein kinase in rat liver. <i>Biochimie</i> , <b>2008</b> , 90, 460-6	4.6	94
20	Simulating Sintering Process in SmCo <sub>5</sub> Magnets. <i>Materials Science Forum</i> , <b>2008</b> , 591-593, 80-85	0.4	5
19	Modelagem da cin <sup>é</sup> tica de forma <sup>ç</sup> o de hidratos utilizando o Modelo do Campo de Fase em condi <sup>ç</sup> es similares a dutos de petr <sup>o</sup> leo. <i>Revista Escola De Minas</i> , <b>2008</b> , 61, 491-497		
18	Impingement function for nucleation on non-random sites. <i>Acta Materialia</i> , <b>2007</b> , 55, 4339-4348	8.4	25

17	Comparison of analytical grain size distributions with three-dimensional computer simulations and experimental data. <i>Scripta Materialia</i> , <b>2006</b> , 54, 1633-1637	5.6	38
16	Modelling the Heat Treatment of Sintered SmCo5 Magnets. <i>Materials Science Forum</i> , <b>2006</b> , 530-531, 152-157	0.4	5
15	Simulation of the solidification of pure nickel via the phase-field method. <i>Materials Research</i> , <b>2006</b> , 9, 349-356	1.5	30
14	Microstructural descriptors and cellular automata simulation of the effects of non-random nuclei location on recrystallization in two dimensions. <i>Materials Research</i> , <b>2006</b> , 9, 165-170	1.5	18
13	Cellular automata simulation of site-saturated and constant nucleation rate transformations in three dimensions. <i>Materials Research</i> , <b>2006</b> , 9, 223-230	1.5	8
12	THERMAL FATIGUE LIVE ANALYSIS OF BRAKE DRUMS MADE WITH GRAY CAST IRON AND VERMICULAR CASTIRON VIA FEM SIMULATION <b>2005</b> ,		1
11	Comparison of analytical models with cellular automata simulation of recrystallization in two dimensions. <i>Materials Research</i> , <b>2005</b> , 8, 341-345	1.5	9
10	MODELO MATEMÁTICO TRIDIMENSIONAL MULTI-FÁSICO DA GERAÇÃO DE DIOXINAS NO LEITO DE SINTERIZAÇÃO. <i>Tecnologia Em Metalurgia E Materiais</i> , <b>2005</b> , 2, 45-49		2
9	AVALIAÇÃO DO DESEMPENHO DO ALTO-FORNO COM A UTILIZAÇÃO DE PELOTA AUTO-REDUTORA, ATRAVÉS DA SIMULAÇÃO COMPUTACIONAL. <i>Tecnologia Em Metalurgia E Materiais</i> , <b>2005</b> , 2, 45-50		2
8	Cellular Automata Simulation of the Effect of Nuclei Distribution on the Recrystallization Kinetics. <i>Materials Science Forum</i> , <b>2004</b> , 467-470, 659-664	0.4	6
7	SIMULAÇÃO COMPUTACIONAL DA INJEÇÃO DE CARVÃO PULVERIZADO NAS VENTANEIRAS DE MINI ALTOS-FORNOS. <i>Tecnologia Em Metalurgia E Materiais</i> , <b>2004</b> , 1, 59-62		7
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5	Numerical Investigation of Simultaneous Injection of Pulverized Coal and Natural Gas with Oxygen Enrichment to the Blast Furnace.. <i>ISIJ International</i> , <b>2002</b> , 42, 1203-1211	1.7	49
4	Numerical Analysis of Multiple Injection of Pulverized Coal, Prereduced Iron Ore and Flux with Oxygen Enrichment to the Blast Furnace.. <i>ISIJ International</i> , <b>2001</b> , 41, 18-24	1.7	18
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2	Resistência à Corrosão de Juntas Dissimilares dos Aços AISI 316L e da Liga Inconel 718. <i>Soldagem E Inspecao</i> , <b>24</b> ,	0.3	1
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