

# Isnaldi Souza Filho

## List of Publications by Year in descending order

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Version: 2024-02-01

15  
papers

468  
citations

759055

12  
h-index

996849

15  
g-index

16  
all docs

16  
docs citations

16  
times ranked

362  
citing authors

#	ARTICLE	IF	CITATIONS
1	Current Challenges and Opportunities in Microstructure-Related Properties of Advanced High-Strength Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020, 51, 5517-5586.	1.1	115
2	In situ synchrotron X-ray evaluation of strain-induced martensite in AISI 201 austenitic stainless steel during tensile testing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 651, 507-516.	2.6	46
3	Sustainable steel through hydrogen plasma reduction of iron ore: Process, kinetics, microstructure, chemistry. <i>Acta Materialia</i> , 2021, 213, 116971.	3.8	46
4	The impact of grain-scale strain localization on strain hardening of a high-Mn steel: Real-time tracking of the transition from the $\epsilon$ -martensite transformation to twinning. <i>Acta Materialia</i> , 2020, 197, 123-136.	3.8	37
5	Green steel at its crossroads: Hybrid hydrogen-based reduction of iron ores. <i>Journal of Cleaner Production</i> , 2022, 340, 130805.	4.6	36
6	Strain partitioning and texture evolution during cold rolling of AISI 201 austenitic stainless steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 702, 161-172.	2.6	33
7	Effects of strain-induced martensite and its reversion on the magnetic properties of AISI 201 austenitic stainless steel. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 419, 156-165.	1.0	31
8	Martensite to austenite reversion in a high-Mn steel: Partitioning-dependent two-stage kinetics revealed by atom probe tomography, in-situ magnetic measurements and simulation. <i>Acta Materialia</i> , 2019, 166, 178-191.	3.8	27
9	A sustainable ultra-high strength Fe18Mn3Ti maraging steel through controlled solute segregation and $\epsilon$ -Mn nanoprecipitation. <i>Nature Communications</i> , 2022, 13, 2330.	5.8	22
10	Strain hardening mechanisms during cold rolling of a high-Mn steel: Interplay between submicron defects and microtexture. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 754, 636-649.	2.6	18
11	Magnetic properties of a 17.6 Mn-TRIP steel: Study of strain-induced martensite formation, austenite reversion, and athermal $\epsilon$ -formation. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 473, 109-118.	1.0	15
12	Reuse of iron ore tailings for production of metakaolin-based geopolymers. <i>Journal of Materials Research and Technology</i> , 2022, 18, 4194-4200.	2.6	15
13	Short Communication on $\epsilon$ -Coarsening of Y-rich oxide particles in 9%Cr-ODS Eurofer steel annealed at 1350 $^{\circ}$ C. <i>Journal of Nuclear Materials</i> , 2017, 484, 283-287.	1.3	13
14	Austenite reversion in AISI 201 austenitic stainless steel evaluated via in situ synchrotron X-ray diffraction during slow continuous annealing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 755, 267-277.	2.6	10
15	Absence of superconductivity in NbB. <i>Physical Review Materials</i> , 2017, 1, .	0.9	4