Maria J Santofimia

List of Publications by Year
in descending order

15	689	840776 11	1058476 14
papers	citations	h-index	g-index

15	15	15	500
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An improved X-ray diffraction analysis method to characterize dislocation density in lath martensitic structures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 639, 208-218.	5.6	217
2	Exploring bainite formation kinetics distinguishing grain-boundary and autocatalytic nucleation in high and low-Si steels. Acta Materialia, 2016, 105, 155-164.	7.9	86
3	Bainite formation kinetics in steels and the dynamic nature of the autocatalytic nucleation process. Scripta Materialia, 2017, 140, 82-86.	5.2	62
4	Analysis of the mechanical behavior of a 0.3C-1.6Si-3.5Mn(wt%) quenching and partitioning steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 677, 505-514.	5.6	59
5	Influence of bainite reaction on the kinetics of carbon redistribution during the Quenching and Partitioning process. Acta Materialia, 2018, 142, 142-151.	7.9	56
6	Impact of austenite grain boundaries and ferrite nucleation on bainite formation in steels. Acta Materialia, 2020, 188, 424-434.	7.9	53
7	In situ austeniteâ€“martensite interface mobility study during annealing. Acta Materialia, 2015, 90, 161-168.	7.9	52
8	Influence of martensite/austenite interfaces on bainite formation in low-alloy steels below M. Acta Materialia, 2020, 188, 394-405.	7.9	45
9	Effect of C on the Martensitic Transformation in Fe-C Alloys in the Presence of Pre-Existing Defects: A Molecular Dynamics Study. Crystals, 2019, 9, 99.	2.2	19
10	The role of grain-boundary cementite in bainite formation in high-carbon steels. Scripta Materialia, 2020, 185, 7-11.	5.2	17
11	Austenite Reverse Transformation in a Q&P Route of Mn and Ni Added Steels. Metals, 2020, 10, 862.	2.3	11
12	Coalescence of martensite under uniaxial tension of iron crystallites by atomistic simulations. Materials Science and Technology, 2020, 36, 1191-1199.	1.6	6
13	Characterization of a Medium Mn-Ni Steel Q&P Treated by a High Partitioning Temperature Cycle. Metals, 2022, 12, 483.	2.3	3
14	Advanced High-Strength Steels by Quenching and Partitioning. Metals, 2021, 11, 1419.	2.3	2
15	The Thermal Stability of Quenched and Partitioned Steel Microstructures. Steel Research International, 2021, 92, 2100290.	1.8	1