

Ignacio Mejia

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.

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|-------------------|-------------------------|----------------|-----------------|
| 73 papers | 951 citations | 18 h-index | 29 g-index |
| 75 ext. papers | 1,096 ext. citations | 2.7 avg, IF | 4.38 L-index |

| # | Paper | IF | Citations |
|----|---|-----|-----------|
| 73 | Characterization of the Gas Tungsten Arc Welding (GTAW) joint of Armco iron nanostructured by Equal-Channel Angular Pressing (ECAP). <i>Journal of Materials Processing Technology</i> , 2021 , 288, 116902 | 5.3 | 4 |
| 72 | Effect of amount and distribution of primary TiC on the wear behavior of a 12%CrB%C white iron under dry sliding conditions. <i>Wear</i> , 2021 , 476, 203718 | 3.5 | 2 |
| 71 | Microstructural and Mechanical Characterization of Ti-Containing Twinning-Induced Plasticity Steel Welded Joint Produced by Gas Tungsten Arc Welding Process. <i>Steel Research International</i> , 2020 , 91, 2000129 | 1.6 | 1 |
| 70 | Microstructural modification of a static and dynamically solidified high chromium white cast iron alloyed with vanadium. <i>Results in Materials</i> , 2020 , 7, 100114 | 2.3 | 4 |
| 69 | The role of chromium during austempering of ductile iron. <i>Metallurgical Research and Technology</i> , 2020 , 117, 104 | 0.9 | 1 |
| 68 | Vanadium Additions to a High-Cr White Iron and its Effects on the Abrasive Wear Behavior.. <i>MRS Advances</i> , 2020 , 5, 3077-3089 | 0.7 | |
| 67 | Thermo-mechanical-microstructural simulation of double-pass welding process in a TWIP steel by FE formulation and probabilistic model. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 111, 1115-1134 | 3.2 | 1 |
| 66 | FE thermo-mechanical simulation of welding residual stresses and distortion in Ti-containing TWIP steel through GTAW process. <i>Journal of Manufacturing Processes</i> , 2020 , 59, 801-815 | 5 | 12 |
| 65 | Improved thermal FE numerical model/DoE based on the Taguchi method to estimate weld penetration/energy and non-metallic inclusions: a case study in Ti-containing TWIP steel butt joints. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 105, 101-120 | 3.2 | 7 |
| 64 | Two-dimensional Monte Carlo/Voronoi simulation of grain growth and nucleation in the heat affected zone of TWIP-Ti welds. <i>Materialia</i> , 2019 , 5, 100223 | 3.2 | 3 |
| 63 | Transmission Electron Microscopy Characterization and High-Resolution Modeling of Second-Phase Particles of V- and Ti-Containing Twinning-Induced Plasticity Steel under Uniaxial Hot-Tensile Condition. <i>Steel Research International</i> , 2019 , 90, 1900098 | 1.6 | 0 |
| 62 | Role of Titanium, Carbon, Boron, and Zirconium in Carbide and Porosity Formation during Equiaxed Solidification of Nickel-Based Superalloys. <i>Journal of Materials Engineering and Performance</i> , 2019 , 28, 4171-4186 | 1.6 | 4 |
| 61 | Effect of the simultaneous Ti and W addition on the microstructure and wear behavior of a high chromium white cast iron. <i>Metallurgical Research and Technology</i> , 2019 , 116, 602 | 0.9 | 6 |
| 60 | Metallographic, structural and mechanical characterization of low-density austenitic Fe-Mn-Al-C steels microalloyed with Ti/B and Ce/La in hot-rolling condition. <i>MRS Advances</i> , 2019 , 4, 3087-3095 | 0.7 | 1 |
| 59 | Niobium Additions to a 15%CrB%C White Iron and Its Effects on the Microstructure and on Abrasive Wear Behavior. <i>Metals</i> , 2019 , 9, 1321 | 2.3 | 9 |
| 58 | Effect of retained austenite and nonmetallic inclusions on the thermal/electrical properties and resistance spot welding nuggets of Si-containing TRIP steels. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2019 , 26, 52-63 | 3.1 | 4 |
| 57 | Quantitative metallographic characterization of welding microstructures in Ti-containing TWIP steel by means of image processing analysis. <i>Materials Characterization</i> , 2019 , 147, 1-10 | 3.9 | 9 |

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| 56 | Characterization of resistance spot welded transformation induced plasticity (TRIP) steels with different silicon and carbon contents. <i>Journal of Manufacturing Processes</i> , 2018 , 32, 307-317 | 5 | 7 |
| 55 | Comparative study on weldability of Ti-containing TWIP and AISI 304L austenitic steels through the autogenous-GTAW process. <i>International Journal of Advanced Manufacturing Technology</i> , 2018 , 98, 2365-2376 | 3 | 6 |
| 54 | Experimental and FEM study of Ti-containing TWIP steel weldability. <i>Journal of Materials Processing Technology</i> , 2018 , 261, 107-122 | 5.3 | 9 |
| 53 | Microstructural and Mechanical Characterization of Autogenous GTAW Weld in High-Manganese Austenitic Steel Ti-Containing with Thermal Analysis. <i>MRS Advances</i> , 2018 , 3, 3963-3969 | 0.7 | 0 |
| 52 | Metallographic, Structural and Mechanical Characterization of a Low Density Fe-Mn-Al-C Steel Microalloyed with Ti/B in As-Cast and Homogenized Conditions. <i>MRS Advances</i> , 2018 , 3, 3971-3978 | 0.7 | 1 |
| 51 | Metallographic, Structural and Mechanical Characterization of REM-Containing Fe-30Mn-8Al-1.8C Low Density Steel in As-Cast Condition. <i>MRS Advances</i> , 2018 , 3, 3957-3962 | 0.7 | 1 |
| 50 | Heat Input Effect on the Microstructure of Twinning-Induced Plasticity (TWIP) Steel Welded Joints Through the GTAW Process. <i>MRS Advances</i> , 2018 , 3, 3949-3956 | 0.7 | |
| 49 | Effect of Load and Sliding Rate on the Wear Behavior of Ti-Containing TWIP Steel. <i>Journal of Materials Engineering and Performance</i> , 2017 , 26, 2213-2225 | 1.6 | 3 |
| 48 | Wear Resistance under Non-Lubricated Condition of Nb-Containing TWIP Steel. <i>MRS Advances</i> , 2017 , 2, 3765-3771 | 0.7 | 1 |
| 47 | Effect of the Heat Input on the Heat Affected Zone in the Austenitic Stainless Steel Welding by the GTAW Process-An Experimental and Computational Analysis. <i>MRS Advances</i> , 2017 , 2, 3781-3786 | 0.7 | |
| 46 | Influence of Nb Microaddition on Microstructure and Texture Evolution in a Fe-21Mn-1.3Al-1.5Si-0.5C TWIP Steel under Uniaxial Hot-Tensile Conditions. <i>MRS Advances</i> , 2017 , 2, 3797-3803 | 0.7 | |
| 45 | Weldability of High-Mn Austenitic Twinning-Induced Plasticity (TWIP) Steel Microalloyed with Nb. <i>MRS Advances</i> , 2017 , 2, 3899-3908 | 0.7 | 2 |
| 44 | Effects of tungsten on the microstructure and on the abrasive wear behavior of a high-chromium white iron. <i>Wear</i> , 2017 , 376-377, 77-85 | 3.5 | 24 |
| 43 | Advanced Ultra-High Strength Steel (A-UHSS): Boron-Containing 2016 , 100-106 | | |
| 42 | Boron effect on the precipitation of secondary carbides during destabilization of a high-chromium white iron. <i>International Journal of Cast Metals Research</i> , 2016 , 29, 55-61 | 1 | 9 |
| 41 | Ab Initio Study of Weldability of a High-Manganese Austenitic Twinning-Induced Plasticity (TWIP) Steel Microalloyed with Boron. <i>Materials Research Society Symposia Proceedings</i> , 2016 , 1812, 35-40 | | 2 |
| 40 | Determination of Critical Stress for Dynamic Recrystallization of a High-Mn Austenitic TWIP Steel Micro-Alloyed with Vanadium. <i>Materials Research Society Symposia Proceedings</i> , 2016 , 1812, 41-46 | | |
| 39 | Metallographic Characterization of a Ti-Containing Low-Density Fe-Mn-Al-C Steel in As-Cast Condition. <i>Materials Research Society Symposia Proceedings</i> , 2016 , 1812, 47-52 | | 0 |

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| 38 | Effect of Ti Microaddition on Cavitation Behavior During Uniaxial Hot-Tensile of Fe-22Mn-1.5Al-1.3Si-0.5C Austenitic TWIP Steel. <i>Materials Research Society Symposia Proceedings</i> , 2016 , 1812, 123-128 | | 1 |
| 37 | Abrasive wear of V-Nb-Ti alloyed high-chromium white irons. <i>Wear</i> , 2015 , 332-333, 1006-1011 | 3.5 | 43 |
| 36 | Modeling the hot flow behavior of a Fe-22Mn-0.41C-0.6Al-0.4Si TWIP steel microalloyed with Ti, V and Nb. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 644, 374-385 | 5.3 | 21 |
| 35 | Sliding wear behavior of austempered ductile iron microalloyed with boron. <i>Wear</i> , 2015 , 330-331, 23-31 | 3.5 | 25 |
| 34 | Effects of boron addition and austempering time on microstructure, hardness and tensile properties of ductile irons. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 648, 193-201 | 5.3 | 17 |
| 33 | Effect of Ti and B microadditions on the hot ductility behavior of a High-Mn austenitic Fe-23Mn-0.5Al-0.3Si-0.5C TWIP steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 648, 311-329 | 5.3 | 28 |
| 32 | Influence of Boron on the Precipitation Kinetics in Advanced Ultra-High Strength Steels. <i>Materials Research Society Symposia Proceedings</i> , 2015 , 1765, 91-96 | | |
| 31 | Boron Effect on the Softening Parameter (n) of Advanced Ultra-High Strength Steels (A-UHSS) under Uniaxial Hot-Compression Conditions. <i>Materials Research Society Symposia Proceedings</i> , 2015 , 1765, 97-102 | | |
| 30 | Dry Sliding Wear Behavior of a High-Mn Austenitic Twinning Induced Plasticity (TWIP) Steel Microalloyed with Ti. <i>Materials Research Society Symposia Proceedings</i> , 2015 , 1765, 59-64 | | 2 |
| 29 | Microstructure and Crystallographic Texture Development of Microalloyed Twinning Induced Plasticity (TWIP) Steels Under Uniaxial Hot-Tensile Conditions. <i>Materials Research Society Symposia Proceedings</i> , 2015 , 1765, 103-108 | | 1 |
| 28 | Effect of Nb and Mo on the hot ductility behavior of a high-manganese austenitic Fe-21Mn-0.3Al-0.5Si-0.5C TWIP steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 616, 229-239 | 5.3 | 42 |
| 27 | Hot ductility behavior of high-Mn austenitic Fe-22Mn-0.5Al-0.5Si-0.45C TWIP steels microalloyed with Ti and V. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 611, 77-89 | 5.3 | 54 |
| 26 | Can Young's Modulus of Metallic Alloys Change with Plastic Deformation?. <i>Materials Science Forum</i> , 2014 , 783-786, 2382-2387 | 0.4 | 2 |
| 25 | Modeling of the hot flow behavior of advanced ultra-high strength steels (A-UHSS) microalloyed with boron. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 610, 116-125 | 5.3 | 18 |
| 24 | Effect of Boron on the Hot Ductility Behavior of a Low Carbon Advanced Ultra-High Strength Steel (A-UHSS). <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013 , 44, 5165-5176 | 2.3 | 14 |
| 23 | The Role of Silicon in the Solidification of High-Cr Cast Irons. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013 , 44, 856-872 | 2.3 | 18 |
| 22 | Sliding wear behavior of a high-Mn austenitic twinning induced plasticity (TWIP) steel microalloyed with Nb. <i>Wear</i> , 2013 , 301, 590-597 | 3.5 | 25 |
| 21 | Hot deformation activation energy (Q _{HW}) of austenitic Fe-22Mn-0.5Al-0.5Si-0.4C TWIP steels microalloyed with Nb, V, and Ti. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 562, 46-52 | 5.3 | 53 |

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| 20 | Effect of microalloying elements (Nb, V and Ti) on the hot flow behavior of high-Mn austenitic twinning induced plasticity (TWIP) steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 560, 552-560 | 5.3 | 53 |
| 19 | Effect of V on Hot Deformation Characteristics of TWIP Steels. <i>Steel Research International</i> , 2012 , 83, 334-339 | 1.6 | 12 |
| 18 | Effect of boron on the continuous cooling transformation kinetics in a low carbon advanced ultra-high strength steel (A-UHSS). <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1485, 83-88 | | 3 |
| 17 | Mechanical properties and microstructure of low carbon ultra-high strength steels (UHSS) microalloyed with boron. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1373, 89 | | 2 |
| 16 | Dynamically recrystallized austenitic grain in a low carbon advanced ultra-high strength steel (A-UHSS) microalloyed with boron under hot deformation conditions. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1485, 143-148 | | 1 |
| 15 | Effect of Microalloying Elements (B, Nb, V and Ti) on the Strain Hardening Behavior of High-Manganese TWIP Steels. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1373, 83 | | 2 |
| 14 | Determination of the critical conditions for the initiation of dynamic recrystallization in boron microalloyed steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 4133-4140 | 5.3 | 64 |
| 13 | Hot ductility behavior of a low carbon advanced high strength steel (AHSS) microalloyed with boron. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 4468-4474 | 5.3 | 51 |
| 12 | Effect of boron on microstructure of directionally solidified high chromium white irons. <i>International Journal of Cast Metals Research</i> , 2011 , 24, 37-44 | 1 | 10 |
| 11 | Hot deformation behavior of low carbon advanced high strength steel (AHSS) microalloyed with boron. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1243, 1 | | |
| 10 | Effect of boron on the sliding wear of directionally solidified high-chromium white irons. <i>Wear</i> , 2009 , 267, 495-504 | 3.5 | 35 |
| 9 | High resistance boron treated steels for railway applications. <i>Materials Science and Technology</i> , 2009 , 25, 361-368 | 1.5 | 6 |
| 8 | Modeling of the hot deformation behavior of boron microalloyed steels under uniaxial hot-compression conditions. <i>International Journal of Materials Research</i> , 2008 , 99, 1336-1345 | 0.5 | 18 |
| 7 | Hot flow behavior of boron microalloyed steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 480, 49-55 | 5.3 | 46 |
| 6 | The effect of titanium on the wear behaviour of a 16%Cr white cast iron under pure sliding. <i>Wear</i> , 2007 , 263, 808-820 | 3.5 | 68 |
| 5 | Hot ductility behavior of boron microalloyed steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 460-461, 464-470 | 5.3 | 56 |
| 4 | Nanoparticle and Intermetallic Formation in Dissimilar Friction Welds Produced with Silver Interlayers. <i>Microscopy and Microanalysis</i> , 2004 , 10, 568-569 | 0.5 | 20 |
| 3 | Effect of rare-earth metals on the hot strength of HSLA steels. <i>International Journal of Materials Research</i> , 2002 , 93, 1132-1139 | | 5 |

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| 2 | Single scratch abrasive wear resistance of a 12%CRB%C white iron alloyed with different titanium amounts. <i>MRS Advances</i> ,1 | 0.7 | |
| 1 | Metallographic, Structural, and Mechanical Characterization of Weld Nuggets in FeMnAlTi Low-Density Steels Microalloyed with Ti/B and Ce/La by Gas Tungsten Arc Welding Process. <i>Steel Research International</i> ,2100229 | 1.6 | 1 |