# Pasquale Cavaliere

List of Publications by Year
in descending order



| 139 | 4,592 | 109137 | 128067 |
|---|---|---|---|
| papers | citations | 35 h-index | 60 g-index |

| 142 | 142 | 142 | 2689 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Architectural design of advanced aluminum matrix composites: a review of recent developments. Critical Reviews in Solid State and Materials Sciences, 2024, 49, 1-71. | 6.8 | 14 |
| 2 | Investigation of hardness, wear and magnetic properties of NiCoCrFeZrx HEA prepared through mechanical alloying and spark plasma sintering. Journal of Alloys and Compounds, 2022, 892, 161924. | 2.8 | 22 |
| 3 | Microstructure dependent dislocation density evolution in micro-macro rolled Al2O3/Al laminated composite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 830, 142317. | 2.6 | 25 |
| 4 | Integration of Open Slag Bath Furnace with Direct Reduction Reactors for New-Generation Steelmaking. Metals, 2022, 12, 203. | 1.0 | 14 |
| 5 | Microstructural, Mechanical and Wear Behavior of HVOF and Cold-Sprayed High-Entropy Alloys (HEAs) Coatings. Journal of Thermal Spray Technology, 2022, 31, 1184-1206. | 1.6 | 26 |
| 6 | CNTs reinforced Al-based composites produced via modified flake powder metallurgy. Journal of Materials Science, 2022, 57, 2550-2566. | 1.7 | 13 |
| 7 | Effect of Processing Parameters on Strength and Corrosion Resistance of Friction Stir-Welded AA6082. Metals, 2022, 12, 192. | 1.0 | 5 |
| 8 | Crack Initiation and Growth Behavior of HVOF Stellite-6 Coatings under Bending Loading. , 2022, 1, 62-74. | | 1 |
| 9 | Pack Siliconizing Optimization of AISI D2 Tool Steel. Silicon, 2022, 14, 10669-10679. | 1.8 | 5 |
| 10 | Growth Mechanism and Kinetics of Siliconizing of AISI D2 Tool Steel. Silicon, 2022, 14, 11395-11403. | 1.8 | 3 |
| 11 | Hydrogen Production as a Clean Energy Carrier through Heterojunction Semiconductors for Environmental Remediation. Energies, 2022, 15, 3222. | 1.6 | 10 |
| 12 | Fatigue Bending of V-Notched Cold-Sprayed FeCoCrNiMn Coatings. Metals, 2022, 12, 780. | 1.0 | 2 |
| 13 | Architecture dependent strengthening mechanisms in graphene/Al heterogeneous lamellar composites. Materials Characterization, 2022, 188, 111913. | 1.9 | 8 |
| 14 | Photocatalytic Materials Obtained from E-Waste Recycling: Review, Techniques, Critique, and Update. Journal of Manufacturing and Materials Processing, 2022, 6, 69. | 1.0 | 4 |
| 15 | A Quantitative Investigation of Dislocation Density in an Al Matrix Composite Produced by a Combination of Micro-/Macro-Rolling. Journal of Composites Science, 2022, 6, 199. | 1.4 | 6 |
| 16 | Hot deformation behaviour of bimodal sized Al<sub>2</sub>O<sub>3</sub>/Al nanocomposites fabricated by spark plasma sintering. Journal of Microscopy, 2021, 281, 28-45. | 0.8 | 16 |
| 17 | Crystal structure evolution in mehcanical alloying and spark plasma sintering of AlxCoCrCuFeNi HEAs. Powder Metallurgy, 2021, 64, 54-63. | 0.9 | 3 |
| 18 | Fatigue and Fracture of Nanostructured Materials. , 2021, , . | | 5 |

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| 19 | Increasing shear strength of Auâ€“Sn bonded joint through nano-grained interfacial reaction products. Journal of Materials Science, 2021, 56, 7050-7062. | 1.7 | 5 |
| 20 | Progress of Flake Powder Metallurgy Research. Metals, 2021, 11, 931. | 1.0 | 19 |
| 21 | Effect of Iron content on the microstructure evolution, mechanical properties and wear resistance of FeXCoCrNi high-entropy alloy â€Žsystem produced via MA-SPS. Journal of Alloys and Compounds, 2021, 870, 159410. | 2.8 | 32 |
| 22 | Fretting Wear and Scratch Resistance of Cold-Sprayed Pure Cu and Ti. Metallography, Microstructure, and Analysis, 2021, 10, 496. | 0.5 | 4 |
| 23 | Modelling of strain rate dependent dislocation behavior of CNT/Al composites based on grain interior/grain boundary affected zone (GI/GBAZ). Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 820, 141547. | 2.6 | 26 |
| 24 | Characterization of Tribological and Mechanical Properties of the Si3N4 Coating Fabricated by Duplex Surface Treatment of Pack Siliconizing and Plasma Nitriding on AISI D2 Tool Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 4753-4766. | 1.1 | 5 |
| 25 | Effects of Process Control Agent Amount, Milling Time, and Annealing Heat Treatment on the Microstructure of AlCrCuFeNi High-Entropy Alloy Synthesized through Mechanical Alloying. Metals, 2021, 11, 1493. | 1.0 | 23 |
| 26 | Effect of Bimodal Grain Structure on the Microstructural and Mechanical Evolution of Al-Mg/CNTs Composite. Metals, 2021, 11, 1524. | 1.0 | 8 |
| 27 | Wear and Fretting Behavior of Cold Sprayed IN625 Superalloy. Metals, 2021, 11, 49. | 1.0 | 7 |
| 28 | Water Electrolysis for the Production of Hydrogen to Be Employed in the Ironmaking and Steelmaking Industry. Metals, 2021, 11, 1816. | 1.0 | 22 |
| 29 | Effect of Al<sub>2</sub>O<sub>3</sub>, SiO<sub>2</sub> and carbon nanotubes on the microstructural and mechanical behavior of spark plasma sintered aluminum based nanocomposites. Particulate Science and Technology, 2020, 38, 7-14. | 1.1 | 18 |
| 30 | Nanoindentation and scratch behaviour of Niâ€“P electroless coatings. Tribology - Materials, Surfaces and Interfaces, 2020, 14, 22-32. | 0.6 | 11 |
| 31 | Powder Properties and Processing Conditions Affecting Cold Spray Deposition. Coatings, 2020, 10, 91. | 1.2 | 16 |
| 32 | Phase evolution in mechanical alloying and spark plasma sintering of Al<sub>x</sub>CoCrCuFeNi HEAs. Materials Science and Technology, 2020, 36, 604-614. | 0.8 | 10 |
| 33 | Friction stir spot welding of TiO2 nanoparticle-reinforced interstitial free steel. Journal of Materials Science, 2020, 55, 12458-12475. | 1.7 | 12 |
| 34 | Direct Reduced Iron: Most Efficient Technologies for Greenhouse Emissions Abatement. , 2019, , 419-484. | | 10 |
| 35 | Clean Ironmaking and Steelmaking Processes: Efficient Technologies for Greenhouse Emissions Abatement. , 2019, , 1-37. | | 9 |
| 36 | Sintering: Most Efficient Technologies for Greenhouse Emissions Abatement. , 2019, , 111-165. | | 3 |

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| 37 | The microstructure and wear behaviour of friction stir processed AISI 430 ferritic stainless steel. Tribology - Materials, Surfaces and Interfaces, 2019, 13, 172-181. | 0.6 | 5 |
| 38 | Evaluation of aluminium/alumina/titanium composites produced by continual annealing and roll-bonding process. Materials Science and Technology, 2019, 35, 1614-1623. | 0.8 | 1 |
| 39 | Fatigue Bending Behavior of Cold-Sprayed Nickel-Based Superalloy Coatings. Journal of Thermal Spray Technology, 2019, 28, 930-938. | 1.6 | 22 |
| 40 | Hot rolling of MWCNTs reinforced Al matrix composites produced via spark plasma sintering. Advanced Composites and Hybrid Materials, 2019, 2, 549-570. | 9.9 | 31 |
| 41 | Corrosion behavior of friction stir processed AISI 430 ferritic stainless steel. Materials Research Express, 2019, 6, 086532. | 0.8 | 6 |
| 42 | Al-Based Nanocomposites Produced via Spark Plasma Sintering: Effect of Processing Route and Reinforcing Phases. , 2019, , 161-190. | | 6 |
| 43 | Microstructural evolution and mechanical properties of AlCrFeNiCoC high entropy alloy produced via spark plasma sintering. Powder Metallurgy, 2019, 62, 61-70. | 0.9 | 17 |
| 44 | Spark Plasma Sintering: Process Fundamentals. , 2019, , 3-20. | | 38 |
| 45 | Microstructure and Mechanical Properties of Nanostructured CoCrFeMoTi High-Entropy Alloy Fabricated by Mechanical Alloying and Spark Plasma Sintering. Journal of Materials Engineering and Performance, 2019, 28, 7710-7725. | 1.2 | 6 |
| 46 | Clean Ironmaking and Steelmaking Processes. , 2019, , . | | 55 |
| 47 | Electron backscattered diffraction analysis of friction stir processed nanocomposites produced via spark plasma sintering. Journal of Microscopy, 2018, 271, 145-163. | 0.8 | 10 |
| 48 | Cold spray additive manufacturing and repair: Fundamentals and applications. Additive Manufacturing, 2018, 21, 628-650. | 1.7 | 269 |
| 49 | Influence of SiO2 nanoparticles on the microstructure and mechanical properties of Al matrix nanocomposites fabricated by spark plasma sintering. Composites Part B: Engineering, 2018, 146, 60-68. | 5.9 | 51 |
| 50 | Friction stir processing of spark plasma sintered aluminum matrix composites with bimodal micro- and nano-sized reinforcing Al2O3 particles. Journal of Manufacturing Processes, 2018, 32, 412-424. | 2.8 | 37 |
| 51 | Finite element analyses of pure Ni cold spray particles impact related to coating crack behaviour. Surface Engineering, 2018, 34, 361-368. | 1.1 | 14 |
| 52 | Microstructural behaviour of spark plasma sintered composites containing bimodal micro- and nano-sized Al<sub>2</sub>O<sub>3</sub> particles. Powder Metallurgy, 2018, 61, 50-63. | 0.9 | 26 |
| 53 | Microstructural and mechanical behavior of bimodal reinforced Al-based composites produced by spark plasma sintering and FSP. International Journal of Advanced Manufacturing Technology, 2018, 94, 3903-3916. | 1.5 | 23 |
| 54 | Fatigue behaviour of Inconel 625 cold spray coatings. Surface Engineering, 2018, 34, 380-391. | 1.1 | 21 |

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| 55 | Fatigue Properties and Crack Behavior of Cold Spray Coatings. , 2018, , 503-530. | | 1 |
| 56 | Influence of zirconium addition on the microstructure, thermodynamic stability, thermal stability and mechanical properties of mechanical alloyed spark plasma sintered (MA-SPS) FeCoCrNi high entropy alloy. Powder Metallurgy, 2018, 61, 405-416. | 0.9 | 14 |
| 57 | Effect of processing parameters on the microstructural and mechanical properties of aluminumâ€“carbon nanotube composites produced by spark plasma sintering. International Journal of Materials Research, 2018, 109, 900-909. | 0.1 | 13 |
| 58 | Effect of the equal channel angular pressing route on the microstructural and mechanical behavior of Al-5086 alloy. Materialia, 2018, 4, 310-322. | 1.3 | 7 |
| 59 | Effect of lead on the crack propagation and the mechanical properties of Brass processed by ECAP at different temperatures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 728, 231-238. | 2.6 | 13 |
| 60 | Effect of cold-rolling on microstructure, texture and mechanical properties of an equiatomic FeCrCuMnNi high entropy alloy. Materialia, 2018, 1, 175-184. | 1.3 | 49 |
| 61 | Effect of processing parameters on microstructural and mechanical properties of aluminumâ€“SiO2 nanocomposites produced by spark plasma sintering. International Journal of Materials Research, 2018, 109, 422-430. | 0.1 | 10 |
| 62 | Hot rolling of spark-plasma-sintered pure aluminium. Powder Metallurgy, 2018, 61, 285-292. | 0.9 | 22 |
| 63 | Nanoindentation characterization of Al-matrix nanocomposites produced via spark plasma sintering. International Journal of Materials Research, 2018, 109, 50-62. | 0.1 | 6 |
| 64 | Wear Behavior of Al-Based Nanocomposites Reinforced with Bimodal Micro- and Nano-Sized Al2O3 Particles Produced by Spark Plasma Sintering. Materials Performance and Characterization, 2018, 7, 327-350. | 0.2 | 4 |
| 65 | Carbon nanotube reinforced aluminum matrix composites produced by spark plasma sintering. Journal of Materials Science, 2017, 52, 8618-8629. | 1.7 | 73 |
| 66 | Crack Repair in Aerospace Aluminum Alloy Panels by Cold Spray. Journal of Thermal Spray Technology, 2017, 26, 661-670. | 1.6 | 52 |
| 67 | Influence of Al2O3 Nanoparticles on Microstructure and Strengthening Mechanism of Al-Based Nanocomposites Produced via Spark Plasma Sintering. Journal of Materials Engineering and Performance, 2017, 26, 2928-2936. | 1.2 | 29 |
| 68 | Microstructural and fatigue behavior of cold sprayed Ni-based superalloys coatings. Surface and Coatings Technology, 2017, 324, 390-402. | 2.2 | 51 |
| 69 | Crack Initiation and Growth Behavior of Cold-Sprayed Ni Particles on IN718 Alloy. Journal of Materials Engineering and Performance, 2017, 26, 1929-1937. | 1.2 | 5 |
| 70 | FSW of bimodal reinforced Al-based composites produced via spark plasma sintering. International Journal of Materials Research, 2017, 108, 1045-1054. | 0.1 | 10 |
| 71 | Mechanical properties of cold sprayed titanium and nickel based coatings. Surface Engineering, 2016, 32, 670-676. | 1.1 | 7 |
| 72 | Cold-Sprayed Nanostructured Pure Cobalt Coatings. Journal of Thermal Spray Technology, 2016, 25, 1168-1176. | 1.6 | 5 |

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| 73 | Crystallization Evolution of Cold-Sprayed Pure Ni Coatings. Journal of Thermal Spray Technology, 2016, 25, 1158-1167. | 1.6 | 17 |
| 74 | Fatigue behaviour of cold sprayed metals and alloys: critical review. Surface Engineering, 2016, 32, 631-640. | 1.1 | 36 |
| 75 | Multi-objective optimization of steel nitriding. Engineering Science and Technology, an International Journal, 2016, 19, 292-312. | 2.0 | 13 |
| 76 | Steel nitriding optimization through multi-objective and FEM analysis. Journal of Computational Design and Engineering, 2016, 3, 71-90. | 1.5 | 7 |
| 77 | Dioxin Emission Reduction in Electric Arc Furnaces for Steel Production. , 2016, , 215-222. | | 1 |
| 78 | Dangerous Emissions Control and Reduction in Sinter Plants. , 2016, , 39-58. | | 0 |
| 79 | CO2 Emission Reduction in Blast Furnaces. , 2016, , 151-171. | | 1 |
| 80 | Mechanical properties of cold sprayed Titanium and Nickel based coatings. Proceedings in Applied Mathematics and Mechanics, 2015, 15, 153-154. | 0.2 | 0 |
| 81 | Mechanical and Microstructural Behavior of Cold-Sprayed Titanium- and Nickel-Based Coatings. Journal of Thermal Spray Technology, 2015, 24, 1506-1512. | 1.6 | 7 |
| 82 | Cold Spray Coating Technology for Metallic Components Repairing. Decision Engineering, 2015, , 175-184. | 1.5 | 4 |
| 83 | Processing conditions affecting residual stresses and fatigue properties of cold spray deposits. International Journal of Advanced Manufacturing Technology, 2015, 81, 1857-1862. | 1.5 | 36 |
| 84 | FEM and multi-objective optimization of steel case hardening. Journal of Manufacturing Processes, 2015, 17, 9-27. | 2.8 | 13 |
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| 86 | Optimization of Blast Furnace Productivity Coupled with <scp>CO</scp><sub>2</sub> Emissions Reduction. Steel Research International, 2014, 85, 89-98. | 1.0 | 15 |
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| 88 | Mechanical and microstructural behavior of nanocomposites produced via cold spray. Composites Part B: Engineering, 2014, 67, 326-331. | 5.9 | 28 |
| 89 | Processing Conditions Affecting Grain Size and Mechanical Properties in Nanocomposites Produced via Cold Spray. Journal of Thermal Spray Technology, 2014, 23, 1089-1096. | 1.6 | 14 |
| 90 | Friction Stir Welding of Al Alloys: Analysis of Processing Parameters Affecting Mechanical Behavior. Procedia CIRP, 2013, 11, 139-144. | 1.0 | 44 |

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| 91 | Analysis of dangerous emissions and plant productivity during sintering ore operations. Ironmaking and Steelmaking, 2013, 40, 9-24. | 1.1 | 17 |
| 92 | Reducing emissions of PCDD/F in sintering plant: numerical and experimental analysis. Ironmaking and Steelmaking, 2011, 38, 422-431. | 1.1 | 19 |
| 93 | Cyclic deformation of ultra-fine and nanocrystalline metals through nanoindentation: similarities with crack propagation. Procedia Engineering, 2010, 2, 213-222. | 1.2 | 16 |
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| 95 | 2198 Alâ€“Li plates joined by Friction Stir Welding: Mechanical and microstructural behavior. Materials & Design, 2009, 30, 3622-3631. | 5.1 | 139 |
| 96 | Mechanical properties of nanocrystalline metals and alloys studied via multi-step nanoindentation and finite element calculations. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 512, 1-9. | 2.6 | 18 |
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| 99 | Effect of welding parameters on mechanical and microstructural properties of dissimilar AA6082â€“AA2024 joints produced by friction stir welding. Materials & Design, 2009, 30, 609-616. | 5.1 | 198 |
| 100 | Effect of anisotropy on fatigue properties of 2198 Alâ€“Li plates joined by friction stir welding. Engineering Failure Analysis, 2009, 16, 1856-1865. | 1.8 | 45 |
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| 103 | Effect of welding parameters on mechanical and microstructural properties of AA6082 joints produced by friction stir welding. Journal of Materials Processing Technology, 2008, 200, 364-372. | 3.1 | 157 |
| 104 | Effect of tool position on the fatigue properties of dissimilar 2024-7075 sheets joined by friction stir welding. Journal of Materials Processing Technology, 2008, 206, 249-255. | 3.1 | 94 |
| 105 | Strain rate sensitivity of ultra-fine and nanocrystaline metals and alloys. Physica B: Condensed Matter, 2008, 403, 569-575. | 1.3 | 22 |
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| 110 | Flow curve prediction of an Al-MMC under hot working conditions using neural networks. Computational Materials Science, 2007, 38, 722-726. | 1.4 | 15 |
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| 113 | Influence of shoulder geometry on microstructure and mechanical properties of friction stir welded 6082 aluminium alloy. Materials & Design, 2007, 28, 1124-1129. | 5.1 | 248 |
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| 116 | Fatigue behaviour of friction stir processed AZ91 magnesium alloy produced by high pressure die casting. Materials Characterization, 2007, 58, 226-232. | 1.9 | 59 |
| 117 | Hot forming behaviour of Tiâ€“Alâ€“Zrâ€“Si â€œin situâ€•metal matrix composite by means of hot torsion tests. Composites Part A: Applied Science and Manufacturing, 2006, 37, 1514-1520. | 3.8 | 9 |
| 118 | Isothermal forging of metal matrix composites: Recrystallization behaviour by means of deformation efficiency. Composites Science and Technology, 2006, 66, 357-362. | 3.8 | 54 |
| 119 | Mechanical and microstructural behaviour of 2024â€“7075 aluminium alloy sheets joined by friction stir welding. International Journal of Machine Tools and Manufacture, 2006, 46, 588-594. | 6.2 | 225 |
| 120 | Effect of welding parameters on mechanical and microstructural properties of AA6056 joints produced by Friction Stir Welding. Journal of Materials Processing Technology, 2006, 180, 263-270. | 3.1 | 168 |
| 121 | Effect of friction stir processing on mechanical and microstructural properties of AM60B Magnesium alloy. Journal of Materials Science, 2006, 41, 3459-3464. | 1.7 | 16 |
| 122 | Effect of minor Sc and Zr addition on the mechanical properties of Friction Stir Processed 2024 Aluminium alloy. Journal of Materials Science, 2006, 41, 4299-4302. | 1.7 | 11 |
| 123 | Effect of friction stir processing on the fatigue properties of a Zr-modified 2014 aluminium alloy. Materials Characterization, 2006, 57, 100-104. | 1.9 | 31 |
| 124 | Effect of heat treatments on mechanical properties and damage evolution of thixoformed aluminium alloys. Materials Characterization, 2005, 55, 35-42. | 1.9 | 41 |
| 125 | High temperature deformation of friction stir processed 7075 aluminium alloy. Materials Characterization, 2005, 55, 136-142. | 1.9 | 69 |
| 126 | Mechanical response of 2024-7075 aluminium alloys joined by Friction Stir Welding. Journal of Materials Science, 2005, 40, 3669-3676. | 1.7 | 82 |

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| 127 | Mechanical properties of Friction Stir Processed 2618/Al2O3/20p metal matrix composite. Composites Part A: Applied Science and Manufacturing, 2005, 36, 1657-1665. | 3.8 | 92 |
| 128 | Friction Stir Welding of Ceramic Particle Reinforced Aluminium Based Metal Matrix Composites. Applied Composite Materials, 2004, 11, 247-258. | 1.3 | 68 |
| 129 | Friction Stir Welding of Ceramic Particle Reinforced Aluminium Based Metal Matrix Composites. Applied Composite Materials, 2004, 11, 399. | 1.3 | 10 |
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| 132 | Isothermal forging of AA2618 reinforced with 20% of alumina particles. Composites Part A: Applied Science and Manufacturing, 2004, 35, 619-629. | 3.8 | 48 |
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| 135 | Hot deformation and processing maps of a particulate-reinforced 6061+20% Al2O3 composite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 324, 157-161. | 2.6 | 65 |
| 136 | An analysis of hot formability of the 6061+20% Al2O3 composite by means of different stability criteria. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 327, 144-154. | 2.6 | 66 |
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| 138 | Effects of thermal treatments on microstructure and mechanical properties in a thixocast 319 aluminum alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 284, 254-260. | 2.6 | 76 |
| 139 | Friction Stir Welding of Al Alloys: Analysis through a Multi-Objective Optimization Tool. Materials Science Forum, 0, 783-786, 1729-1734. | 0.3 | 0 |