

Mathieu Brochu

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.

184
papers

2,879
citations

30
h-index

43
g-index

195
ext. papers

3,456
ext. citations

3.7
avg, IF

5.65
L-index

#	Paper	IF	Citations
184	Microstructure and Mechanical Properties of Ti-6Al-4V Additively Manufactured by Electron Beam Melting with 3D Part Nesting and Powder Reuse Influences. <i>Journal of Manufacturing and Materials Processing</i> , 2022 , 6, 21	2.2	1
183	Effects of crystallographic orientation on the corrosion behavior of stainless steel 316L manufactured by laser powder bed fusion. <i>Corrosion Science</i> , 2022 , 196, 110009	6.8	2
182	Characterization of the microstructure and mechanical properties of highly textured and single crystal Hastelloy X thin struts fabricated by laser powder bed fusion. <i>Journal of Alloys and Compounds</i> , 2022 , 901, 163465	5.7	1
181	Analysis of the effect of surface morphology on tensile behavior of LPBF SS316L microstruts. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 831, 142226	5.3	0
180	Benchmarking of 316L Stainless Steel Manufactured by a Hybrid Additive/Subtractive Technology. <i>Journal of Manufacturing and Materials Processing</i> , 2022 , 6, 30	2.2	0
179	Characterization of femtosecond laser micromachined specimens extracted from PBF-LB/M microstruts: Analyzing surfaces fabricated via internally linked machined kerfs. <i>Materialia</i> , 2021 , 20, 101260	3.2	0
178	Evaluation of Maraging Steel Produced Using Hybrid Additive/Subtractive Manufacturing. <i>Journal of Manufacturing and Materials Processing</i> , 2021 , 5, 107	2.2	3
177	Turbine Blade Tip Repair by Laser Directed Energy Deposition Additive Manufacturing Using a Rene 142/MERL 72 Powder Blend. <i>Journal of Manufacturing and Materials Processing</i> , 2021 , 5, 21	2.2	4
176	Microstructure and mechanical properties of β 15 Ti alloy fabricated through laser powder bed fusion. <i>Progress in Additive Manufacturing</i> , 2021 , 6, 417-430	5	0
175	Effect of Platform Temperature and Post-Processing Heat Treatment on the Fatigue Life of Additively Manufactured AlSi7Mg Alloy. <i>Metals</i> , 2021 , 11, 679	2.3	0
174	Dependence of mechanical properties on crystallographic orientation in nickel-based superalloy Hastelloy X fabricated by laser powder bed fusion. <i>Journal of Alloys and Compounds</i> , 2021 , 865, 158868	5.7	11
173	Effect of heat treatment on the microstructure and elevated temperature tensile properties of Rene 41 alloy produced by laser powder bed fusion. <i>Journal of Alloys and Compounds</i> , 2021 , 858, 157645	5.7	1
172	Thermo-Mechanical Modeling of Wire-Fed Electron Beam Additive Manufacturing. <i>Materials</i> , 2021 , 14,	3.5	4
171	Deterministic modeling of solidification microstructure formation in directed energy deposition fabricated Ti6Al4V. <i>Additive Manufacturing</i> , 2021 , 46, 102182	6.1	
170	Microstructure and mechanical properties of difficult to weld Rene 77 superalloy produced by laser powder bed fusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 827, 142053	5.3	0
169	Laser powder bed fusion of a new high gamma prime Ni-based superalloy with improved weldability. <i>Materials and Design</i> , 2021 , 208, 109895	8.1	1
168	Crystallographic orientation dependence of Charpy impact behaviours in stainless steel 316L fabricated by laser powder bed fusion. <i>Additive Manufacturing</i> , 2021 , 46, 102104	6.1	1

167	Surface, microstructure, and tensile deformation characterization of LPBF SS316L microstruts micromachined with femtosecond laser. <i>Materials and Design</i> , 2021 , 210, 110045	8.1	5
166	High Frequency Vibration Fatigue Behavior of Ti6Al4V Fabricated by Wire-Fed Electron Beam Additive Manufacturing Technology. <i>Advances in Materials Science and Engineering</i> , 2020 , 2020, 1-14	1.5	8
165	Investigation of the rotating drum technique to characterise powder flow in controlled and low pressure environments. <i>Powder Technology</i> , 2020 , 366, 925-937	5.2	9
164	Microstructure and mechanical properties at room and elevated temperature of crack-free Hastelloy X fabricated by laser powder bed fusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 780, 139177	5.3	13
163	Single-crystalline-like stainless steel 316L with different geometries fabricated by laser powder bed fusion. <i>Progress in Additive Manufacturing</i> , 2020 , 5, 41-49	5	8
162	A Comparison of Weldability, Structure, and Mechanical Properties of CM64 and Tribaloy T-800 Welds for Hard-Facing of Turbine Blades. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2020 , 142,	3.3	2
161	Machine Learning-Enabled Competitive Grain Growth Behavior Study in Directed Energy Deposition Fabricated Ti6Al4V. <i>Jom</i> , 2020 , 72, 458-464	2.1	5
160	Microstructures and properties of SLM-manufactured Cu-15Ni-8Sn alloy. <i>Additive Manufacturing</i> , 2020 , 31, 100921	6.1	16
159	Selective laser melting and heat treatment of precipitation hardening stainless steel with a refined microstructure and excellent mechanical properties. <i>Scripta Materialia</i> , 2020 , 178, 7-12	5.6	38
158	Microstructure and mechanical properties of rene 41 alloy manufactured by laser powder bed fusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 773, 138849	5.3	10
157	Solidification microstructure simulation of Ti-6Al-4V in metal additive manufacturing: A review. <i>Additive Manufacturing</i> , 2020 , 31, 100989	6.1	20
156	Microstructure and mechanical behavior of as-built and heat-treated Ti6Al7Nb produced by laser powder bed fusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 793, 139978	5.3	11
155	Crystallographic-orientation-dependent tensile behaviours of stainless steel 316L fabricated by laser powder bed fusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 766, 138395	5.3	61
154	Mechanical Properties and Structure of Laser Beam and Wide Gap Brazed Joints Produced Using Mar M247™dry DF3 Powders. <i>Journal of Engineering for Gas Turbines and Power</i> , 2019 , 141,	1.7	7
153	Hard turning multi-performance optimization for improving the surface integrity of 300M ultra-high strength steel. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 104, 141-157	3.2	9
152	Impact properties of half stress-relieved and hot isostatic pressed Ti6Al4V components fabricated by laser powder bed fusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 760, 481-488	5.3	6
151	Titanium Alloy Repair with Wire-Feed Electron Beam Additive Manufacturing Technology. <i>Advances in Materials Science and Engineering</i> , 2019 , 2019, 1-23	1.5	21
150	Microstructure evolution of Inconel 738 fabricated by pulsed laser powder bed fusion. <i>Progress in Additive Manufacturing</i> , 2019 , 4, 97-107	5	19

149	Analytical fatigue life prediction of shot peened AA 7050-T7451. <i>International Journal of Fatigue</i> , 2019 , 118, 271-281	5	14
148	Contribution of cellulosic fibre filter on atmosphere moisture content in laser powder bed fusion additive manufacturing. <i>Scientific Reports</i> , 2019 , 9, 13794	4.9	2
147	Characterization of single crystalline austenitic stainless steel thin struts processed by laser powder bed fusion. <i>Scripta Materialia</i> , 2019 , 163, 51-56	5.6	28
146	Pulsed laser powder bed fusion additive manufacturing of A356. <i>Materials Characterization</i> , 2018 , 143, 27-33	3.9	13
145	Effect of travel speed and stress relief on thin Ti-6Al-4V laser wire deposits. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 724, 335-347	5.3	10
144	Effect of travel speed and sub-transus post deposition heat treatments on thin Ti-6Al-4V laser wire deposits. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 724, 376-384	5.3	7
143	Probabilistic analysis of the effect of shot peening on the high and low cycle fatigue behaviors of AA 7050-T7451. <i>International Journal of Fatigue</i> , 2018 , 111, 289-298	5	10
142	Fabrication of Crack-Free Nickel-Based Superalloy Considered Non-Weldable during Laser Powder Bed Fusion. <i>Materials</i> , 2018 , 11,	3.5	30
141	Effect of heat treatments on microstructure evolution and grain morphology of alloy 625 with 0.4 wt% boron modification fabricated by laser wire deposition. <i>Journal of Alloys and Compounds</i> , 2018 , 764, 815-823	5.7	11
140	Solidification pattern, microstructure and texture development in Laser Powder Bed Fusion (LPBF) of Al10SiMg alloy. <i>Materials Characterization</i> , 2018 , 145, 29-38	3.9	39
139	A Comprehensive Approach to Powder Feedstock Characterization for Powder Bed Fusion Additive Manufacturing: A Case Study on AlSi7Mg. <i>Materials</i> , 2018 , 11,	3.5	48
138	Laser Wire Deposition of Thick Ti-6Al-4V Buildups: Heat Transfer Model, Microstructure, and Mechanical Properties Evaluations. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018 , 49, 6490-6508	2.3	8
137	Microstructure characterization and grain morphology of alloy 625 with 0.4 wt% boron modification manufactured by laser wire deposition. <i>Additive Manufacturing</i> , 2018 , 24, 137-144	6.1	6
136	Microstructure-Properties Relationships of Ti-6Al-4V Parts Fabricated by Selective Laser Melting. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2018 , 5, 605-612	3.8	17
135	Advanced Welding Materials and Technologies for Repair of Turbine Engine Components Manufactured of High Gamma Prime Nickel Based Superalloys 2018 ,		1
134	Layer-by-layer combination of laser powder bed fusion (LPBF) and femtosecond laser surface machining of fabricated stainless steel components. <i>Journal of Manufacturing Processes</i> , 2018 , 35, 327-336	5	7
133	Comparison of small and long fatigue crack growth behavior in AA 7050-T7451. <i>Engineering Fracture Mechanics</i> , 2018 , 202, 20-32	4.2	9
132	Microstructure and mechanical properties of stainless steel 316L vertical struts manufactured by laser powder bed fusion process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 736, 27-40	5.3	73

131	A Mn/Co-oxide electrode for potential use in high energy density hybrid supercapacitors. <i>Materials Chemistry and Physics</i> , 2017 , 193, 73-81	4.4	6
130	Densification and microstructural investigation of Inconel 718 parts fabricated by selective laser melting. <i>Powder Technology</i> , 2017 , 310, 60-66	5.2	141
129	Additive Manufacturing of AlSi10Mg Alloy Using Direct Energy Deposition: Microstructure and Hardness Characterization. <i>Journal of Thermal Spray Technology</i> , 2017 , 26, 587-597	2.5	53
128	Microstructure and mechanical properties of Al10SiMg fabricated by pulsed laser powder bed fusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 689, 53-62	5.3	29
127	Characterization of bending vibration fatigue of SLM fabricated Ti-6Al-4V. <i>International Journal of Fatigue</i> , 2017 , 99, 25-34	5	33
126	Fractional Crystallization Model of Multicomponent Aluminum Alloys: A Case Study of Aircraft Recycling. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2017 , 48, 1024-1034	2.5	4
125	Characterization and investigation of size effect in nano-impact indentations performed using cube-corner indenter tip. <i>Journal of Materials Research</i> , 2017 , 32, 2241-2248	2.5	9
124	Characterization of bending vibration fatigue of WBD fabricated Ti-6Al-4V. <i>International Journal of Fatigue</i> , 2017 , 101, 36-44	5	9
123	Effect of heat treatment on microstructure evolution and mechanical properties of Inconel 625 with 0.4 wt% boron modification fabricated by gas tungsten arc deposition. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 684, 275-283	5.3	10
122	Evaluation of Powder Layer Density for the Selective Laser Melting (SLM) Process. <i>Materials Transactions</i> , 2017 , 58, 294-297	1.3	18
121	Thermal Stability of Cryomilled Al-Mg-Er Powders. <i>Journal of Nanomaterials</i> , 2017 , 2017, 1-17	3.2	1
120	Multi-Objective Build Orientation Optimization for Powder Bed Fusion by Laser 2017 ,		2
119	Multi-Objective Build Orientation Optimization for Powder Bed Fusion by Laser. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2017 , 139,	3.3	30
118	Spark Plasma Sintering and Upsetting of a Gas-Atomized/Air-Atomized Al Alloy Powder Mixture. <i>Journal of Materials Engineering and Performance</i> , 2017 , 26, 5097-5106	1.6	1
117	Nickel-based superalloy microstructure obtained by pulsed laser powder bed fusion. <i>Materials Characterization</i> , 2017 , 131, 306-315	3.9	39
116	Process-structure-property relationships of the comminution processing of Al scrap. <i>Powder Technology</i> , 2017 , 320, 202-212	5.2	
115	Spark plasma sintering and spark plasma upsetting of an Al-Zn-Mg-Cu alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 704, 154-163	5.3	10
114	Microstructure evolution of Inconel 625 with 0.4 wt% boron modification during gas tungsten arc deposition. <i>Journal of Alloys and Compounds</i> , 2017 , 694, 429-438	5.7	26

113	Industrial comminution of different Al scrap. <i>Powder Technology</i> , 2017 , 317, 236-246	5.2	2
112	Investigating cube-corner indentation hardness and strength relationship under quasi-static and dynamic testing regimes. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 677, 534-539	5.3	6
111	Microstructure Evolution and Rapid Solidification Behavior of Blended Nickel-Based Superalloy Powders Fabricated by Laser Powder Deposition. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016 , 47, 3771-3780	2.3	7
110	Supersolidus Liquid Phase Sintering Modeling of Inconel 718 Superalloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016 , 47, 869-876	2.3	10
109	Recyclability assessment of Al 7075 chips produced by cold comminution and consolidation using spark plasma sintering. <i>Canadian Metallurgical Quarterly</i> , 2016 , 55, 94-103	0.9	3
108	Spark plasma sintering and age hardening of an Al ₇₀ Mg alloy powder blend. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 650, 129-138	5.3	13
107	Densification Behavior of 316L Stainless Steel Parts Fabricated by Selective Laser Melting by Variation in Laser Energy Density. <i>Materials Transactions</i> , 2016 , 57, 1952-1959	1.3	36
106	Microstructure and mechanical property considerations in additive manufacturing of aluminum alloys. <i>MRS Bulletin</i> , 2016 , 41, 745-751	3.2	69
105	Linear Friction Welding of IN718 to Ti6Al4V. <i>Materials Science Forum</i> , 2016 , 879, 2072-2077	0.4	9
104	Effect of Heating Rate on the Pressureless Sintering Densification of a Nickel-Based Superalloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016 , 47, 2257-2266	2.3	3
103	Thermal Decoating of Aerospace Aluminum Alloys for Aircraft Recycling. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2016 , 47, 1976-1985	2.5	1
102	Evaluation of the Particle Bonding for Aluminum Sample Produced by Spark Plasma Sintering. <i>Journal of Materials Engineering and Performance</i> , 2016 , 25, 4521-4528	1.6	5
101	Effect of heat treatments on microstructure evolution and mechanical properties of blended nickel-based superalloys powders fabricated by laser powder deposition. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 674, 646-657	5.3	17
100	Consideration of particle rearrangement during the modeling of spark plasma densification of AlMg alloy powders. <i>Scripta Materialia</i> , 2015 , 102, 7-10	5.6	3
99	Spark plasma sintering of prealloyed aluminium powders. <i>Powder Metallurgy</i> , 2015 , 58, 51-60	1.9	17
98	Consolidation of aluminum-based metal matrix composites via spark plasma sintering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 648, 123-133	5.3	54
97	Anodized aluminum-silicon alloy counter electrode substrates for next generation solar cell applications. <i>Applied Surface Science</i> , 2015 , 356, 317-324	6.7	9
96	Interfacial Development of Electrophoretically Deposited Graphene Oxide Films on Al Alloys. <i>Journal of the Electrochemical Society</i> , 2015 , 162, D3025-D3029	3.9	4

95	Thermal spray nanostructured ceramic and metal-matrix composite coatings 2015 , 481-511		
94	Spark plasma sintering of an Al-based powder blend. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 621, 18-27	5.3	19
93	Microstructure and densification of gas atomised FeCrB based alloy powder consolidated by spark plasma sintering. <i>Powder Metallurgy</i> , 2015 , 58, 20-29	1.9	2
92	Additive Manufacturing of Al-12Si Alloy Via Pulsed Selective Laser Melting. <i>Jom</i> , 2015 , 67, 590-596	2.1	63
91	Interdiffusion between copper and nickel powders and sintering map development during spark plasma sintering. <i>Scripta Materialia</i> , 2015 , 100, 74-77	5.6	14
90	The Effect of Grain Size on the Cyclic Oxidation of NiCoCrAlY. <i>Jom</i> , 2014 , 66, 1088-1095	2.1	1
89	Effect of extrusion aspect ratio and test temperatures on fatigue crack growth behavior of a 2099-T83 AlTi alloy. <i>International Journal of Fatigue</i> , 2014 , 59, 244-253	5	16
88	Characterization of AlTi 2099 extrusions and the influence of fiber texture on the anisotropy of static mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 597, 62-69	5.3	40
87	Development of Titanium-Sputtered Anodized Aluminum Substrates for Dye-Sensitized Solar Cells. <i>Metallurgical and Materials Transactions E</i> , 2014 , 1, 311-317		0
86	The effect of nanostructure on the oxidation of NiAl. <i>Intermetallics</i> , 2014 , 54, 209-217	3.5	14
85	Fatigue strength of Al alloy cold sprayed with nanocrystalline powders. <i>International Journal of Fatigue</i> , 2014 , 65, 51-57	5	49
84	Microstructure and mechanical properties of air atomized aluminum powder consolidated via spark plasma sintering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 608, 273-282	5.3	37
83	Comparison Between Micrometer- and Nano-Scale Glass Composites for Sealing Solid Oxide Fuel Cells 2014 , 237-243		
82	The effects of applied current on one-dimensional interdiffusion between copper and nickel in spark plasma sintering. <i>Journal of Applied Physics</i> , 2014 , 116, 154901	2.5	13
81	Selective laser sintering of composite copperTi powders. <i>Journal of Materials Research</i> , 2014 , 29, 1997-2005		13
80	Microstructural investigation of controlled short circuiting gas metal arc welding deposited aluminiumTi alloy. <i>Canadian Metallurgical Quarterly</i> , 2014 , 53, 416-422	0.9	3
79	Modeling residual porosity in thick components consolidated by spark plasma sintering. <i>Scripta Materialia</i> , 2014 , 76, 53-56	5.6	4
78	The effect of grain size on the oxidation of NiCoCrAlY. <i>Applied Surface Science</i> , 2014 , 301, 258-263	6.7	33

77	Tribology of a FeCrB-Based Alloy Coating Fabricated by a Controlled Short-Circuit MIG Welding Process. <i>Metallography, Microstructure, and Analysis</i> , 2013 , 2, 223-233	1.1	10
76	Cladding AA7075 with a cryomilled Al ₂ Si alloy using spark plasma sintering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 578, 323-330	5.3	11
75	Characterization of Nanostructured and Ultrafine-Grain Aluminum-Silicon Claddings using the Nanoindentation Technique. <i>Jom</i> , 2013 , 65, 763-768	2.1	6
74	Understanding the solidification and microstructure evolution during CSC-MIG welding of FeCrB-based alloy. <i>Materials Characterization</i> , 2013 , 86, 127-138	3.9	24
73	Consolidation of cryomilled AlSi using spark plasma sintering. <i>Philosophical Magazine</i> , 2013 , 93, 2445-2464	6.4	16
72	Tribological performance of Al ₂ Si coatings created via Electrospark Deposition and Spark Plasma Sintering. <i>Tribology International</i> , 2013 , 66, 1-11	4.9	6
71	Non-equilibrium solute partitioning in a laser re-melted AlCu alloy. <i>Acta Materialia</i> , 2013 , 61, 7432-7436	6.4	17
70	Interfacial morphology development and solute trapping behavior during rapid solidification of an AlCu alloy. <i>Acta Materialia</i> , 2013 , 61, 1571-1580	8.4	34
69	Oxidation behaviour of Al enhanced stainless steel coatings produced by cryomilling and spark plasma sintering. <i>Canadian Metallurgical Quarterly</i> , 2013 , 52, 199-207	0.9	
68	Grain Refinement during Rapid Solidification of Aluminum-Zirconium Alloys Using Electrospark Deposition. <i>Materials Transactions</i> , 2013 , 54, 934-939	1.3	8
67	Improving the mechanical reliability of cryomilled AlMg alloy using a two-stage spark plasma sintering cycle. <i>Scripta Materialia</i> , 2012 , 66, 455-458	5.6	14
66	Effects of Deformation Texture Intensities and Precipitates on the Anisotropy of Mechanical Properties of Al-Li Alloy 2099 T83 Extrusions 2012 , 1830-1836		
65	Pressureless sintering of cold sprayed Inconel 718 deposit. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 556, 343-350	5.3	34
64	Analysis of WC/Ni-Based Coatings Deposited by Controlled Short-Circuit MIG Welding. <i>Journal of Materials Engineering and Performance</i> , 2012 , 21, 865-876	1.6	19
63	Nanostructured Al-Based Metal Matrix Composite Coating Production by Pulsed Gas Dynamic Spraying Process. <i>Journal of Thermal Spray Technology</i> , 2012 , 21, 609-619	2.5	21
62	Thermal simulation of HAZ regions in modern high strength steel. <i>Canadian Metallurgical Quarterly</i> , 2012 , 51, 58-66	0.9	10
61	Utilisation of electrospark deposition to restore local oxidation resistance properties in damaged NiCoCrAlY and CoNiCrAlY coatings. <i>Canadian Metallurgical Quarterly</i> , 2012 , 51, 313-319	0.9	3
60	Solid freeform fabrication of AlSi components via the CSC-MIG process. <i>Canadian Metallurgical Quarterly</i> , 2012 , 51, 302-312	0.9	12

59	Electron Microscopy Characterization of Nanosized Strengthening Precipitates in New Generation Aluminum-Lithium Alloys. <i>Microscopy and Microanalysis</i> , 2012 , 18, 1890-1891	0.5	
58	Fatigue Crack Growth Behavior of 2099-T83 Extrusions in two Different Environments 2012 , 517-522		1
57	Autogenous electrospark deposition of NiCoCrAlY. <i>Canadian Metallurgical Quarterly</i> , 2011 , 50, 145-152	0.9	2
56	Microstructure and Tribology of Spark Plasma Sintered Fe ₃ C/B Metamorphic Alloy Powder. <i>Tribology Letters</i> , 2011 , 44, 269-278	2.8	11
55	Thermal stability and oxidation behavior of nanostructured NiCoCrAlY coatings. <i>Surface and Coatings Technology</i> , 2011 , 205, 4162-4168	4.4	60
54	Synthesis and consolidation via spark plasma sintering of nanostructured Al-5356/B4C composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 4395-4407	5.3	71
53	Effects of water vapor on high temperature oxidation of cryomilled NiCoCrAlY coatings in air and low-SO ₂ environments. <i>Surface and Coatings Technology</i> , 2011 , 205, 4221-4227	4.4	22
52	Interparticle Liquid Film Formation during Spark Plasma Sintering of Inconel 718 Superalloy. <i>Advanced Materials Research</i> , 2011 , 409, 763-768	0.5	1
51	Friction Stir Welding of Al-Li AA2199: Parameters, Precipitates and Post Weld Heat Treatment. <i>Advanced Materials Research</i> , 2011 , 409, 853-858	0.5	
50	Surface Modification of Al Components Using Spark Plasma Sintering. <i>Advanced Materials Research</i> , 2011 , 409, 514-519	0.5	
49	Solid Freeform Fabrication of Al-Li 2199 via Controlled-Short-Circuit-MIG Welding. <i>Advanced Materials Research</i> , 2011 , 409, 843-848	0.5	
48	Fatigue Crack Propagation Rates and Local Texture Relationship in 2099-T83 Al-Li Alloy. <i>Advanced Materials Research</i> , 2011 , 409, 9-14	0.5	4
47	Bulk nanostructure and amorphous metallic components using the electrospark welding process. <i>Assembly Automation</i> , 2010 , 30, 248-256	2.1	11
46	Development of a nanostructure microstructure in the Al/Ni system using the electrospark deposition process. <i>Journal of Materials Processing Technology</i> , 2010 , 210, 892-898	5.3	29
45	Microstructure and transformation of Al-containing nanostructured 316L stainless steel coatings processed using spark plasma sintering. <i>Journal of Materials Processing Technology</i> , 2010 , 210, 2119-2124	5.3	18
44	Crystal structure, transformation and thermal stability of nanostructured 316LSS alloyed with 2 and 6wt.% aluminum. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 6020-6027	5.3	6
43	Microstructure and mechanical properties of B4C reinforced Al-based matrix composite coatings deposited by CGDS and PGDS processes. <i>Surface and Coatings Technology</i> , 2010 , 205, 2234-2246	4.4	54
42	Parameters influencing the oxidation behavior of cryomilled CoNiCrAlY. <i>Surface and Coatings Technology</i> , 2010 , 205, 2546-2553	4.4	30

41	Characterization of electron beam welded AA2024. <i>Vacuum</i> , 2010 , 85, 268-282	3.7	28
40	Formation of nanostructured weldments in the AlSi system using electrospark welding. <i>Applied Surface Science</i> , 2010 , 256, 4009-4016	6.7	15
39	Development of Metastable Solidification Structures Using the Electrospark Deposition Process. <i>The Open Surface Science Journal</i> , 2010 , 3, 105-114		8
38	Formation of Nanostructures and Solid Solubility Extension in Cryomilled Al-Cu and Al-Si Powders. <i>Canadian Metallurgical Quarterly</i> , 2009 , 48, 33-44	0.9	2
37	Shear punch testing and fracture toughness of bulk nanostructured silver. <i>Materials & Design</i> , 2009 , 30, 1445-1450		10
36	Nanocrystalline eutectic AlSi alloy produced by cryomilling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 508, 43-49	5.3	52
35	Pressureless reactive sintering of ZrB ₂ ceramic. <i>Journal of the European Ceramic Society</i> , 2009 , 29, 1493-1499	6.4	34
34	The transformation of an Al-based crystalline electrode material to an amorphous deposit via the electrospark welding process. <i>Journal of Alloys and Compounds</i> , 2009 , 476, 147-151	5.7	23
33	Formation of amorphous Zr ₄₁ Ti ₁₃ Ni ₁₀ Cu _{12.5} Be _{22.5} coatings via the ElectroSpark Deposition process. <i>Intermetallics</i> , 2008 , 16, 518-523	3.5	49
32	Hermetic sealing of solid oxide fuel cells 2008 , 718-740		
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