

CITATION REPORT

List of articles citing

The microstructure and mechanical properties of deposited-IN718 by selective laser melting

DOI: 10.1016/j.jallcom.2011.10.107

Journal of Alloys and Compounds, 2012, 513, 518-523.

Source: <https://exaly.com/paper-pdf/53621296/citation-report.pdf>

Version: 2024-04-25

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
552	Effects of processing parameters on tensile properties of selective laser melted 304 stainless steel. 2013 , 50, 581-586		237
551	High temperature material properties of IN738LC processed by selective laser melting (SLM) technology. 2013 , 19, 282-290		120
550	Microstructure and tensile behavior of hybrid nano-micro SiC reinforced iron matrix composites produced by selective laser melting. <i>Journal of Alloys and Compounds</i> , 2013 , 579, 415-421	5.7	76
549	Effect of Heat Treatment on Niobium Segregation of Laser-Cladded IN718 Alloy Coating. 2013 , 44, 708-716		53
548	Inconel 939 processed by selective laser melting: Effect of microstructure and temperature on the mechanical properties under static and cyclic loading. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 588, 188-195	5.3	151
547	Microstructure and tensile properties of laser melting deposited Ti-6Al-4Mo-2V-1Cr-1Fe near β titanium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 586, 323-329	5.3	93
546	Microstructural characterization of laser melting deposited Ti-6Al-5Mo-2V-1Cr-1Fe near β titanium alloy. <i>Journal of Alloys and Compounds</i> , 2013 , 572, 17-24	5.7	111
545	Microstructural characteristics of forged and heat treated Inconel-718 disks. 2013 , 52, 791-800		119
544	Control of shape and performance for direct laser fabrication of precision large-scale metal parts with 316L Stainless Steel. 2013 , 45, 209-216		97
543	Mechanical Behaviour and Microstructure Correlation in a Selective Laser Melted Superalloy. 2013 ,		11
542	Selective laser melting additive manufacturing of TiC/Inconel 718 bulk-form nanocomposites: Densification, microstructure, and performance. 2014 , 29, 1960-1969		40
541	Additive manufacturing of nickel-based superalloy Inconel 718 by selective electron beam melting: Processing window and microstructure. 2014 , 29, 1987-1996		120
540	Microstructural Analysis on 3D Printed Nickel-Based Alloy 718. 2014 , 459-467		
539	Turbomachinery component manufacture by application of electrochemical, electro-physical and photonic processes. 2014 , 63, 703-726		215
538	Selective Laser Melting of the Inconel 718 Nickel Superalloy. 2014 , 698, 333-338		9
537	Additive Manufacturing of Al Alloys and Aluminium Matrix Composites (AMCs). 2014 ,		51
536	Vacuum heat treatment of iron parts produced by selective laser melting: Microstructure, residual stress and tensile behavior. 2014 , 54, 727-733		112

535	Obtaining bimodal microstructure in laser melting deposited Ti5Al5Mo5V1Cr1Fe near β titanium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 609, 177-184	5.3	17
534	On the fatigue crack growth behavior in 316L stainless steel manufactured by selective laser melting. 2014 , 120, 15-25		370
533	Microstructure and tensile properties of iron parts fabricated by selective laser melting. 2014 , 56, 451-460		139
532	Friction Freeform Fabrication of Superalloy Inconel 718: Prospects and Problems. 2014 , 45, 182-192		14
531	Selective laser melting additive manufacturing of Inconel 718 superalloy parts: Densification, microstructure and properties. <i>Journal of Alloys and Compounds</i> , 2014 , 585, 713-721	5.7	514
530	Effect of energy input on formability, microstructure and mechanical properties of selective laser melted AZ91D magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 611, 212-222	5.3	167
529	Effect of heat treatment on microstructure and mechanical properties of laser deposited Ti60A alloy. <i>Journal of Alloys and Compounds</i> , 2014 , 585, 220-228	5.7	19
528	Effect of Process Control and Powder Quality on Inconel 718 Produced Using Electron Beam Melting. 2014 , 409-423		18
527	Thermal fatigue crack growth behaviours of laser deposited Ti60A near β titanium alloy. 2014 , 18, S4-933-S4-939		128
526	Review of selective laser melting: Materials and applications. 2015 , 2, 041101		1001
525	Mechanical and Microstructural Investigation of Nickel-Based Superalloy IN718 Manufactured by Selective Laser Melting (SLM). <i>Advanced Engineering Materials</i> , 2015 , 17, 1099-1105	3.5	160
524	Surface Refining by Laser Scanning on Silicon Wafers. 2015 , 833, 122-126		
523	Effect of heat treatment on the microstructure and mechanical properties of Inconel 718 processed by selective laser melting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 639, 647-655	5.3	375
522	Reduction of micro-cracking in nickel superalloys processed by Selective Laser Melting: A fundamental alloy design approach. 2015 , 94, 59-68		348
521	Phase analysis and microstructure characterisation of AlSi10Mg parts produced by Selective Laser Melting. 2015 , 10, 207-215		64
520	Thermal Fields Simulation of the Refining Process for Si Wafer by Continuous-Wave Laser Irradiation. 2015 , 833, 117-121		1
519	Review on Powder-Bed Laser Additive Manufacturing of Inconel 718 Parts. 2015 ,		6
518	A Sensitivity Analysis Study on the Material Properties and Process Parameters for Selective Laser Melting of Inconel 625. 2015 ,		6

517	Characterization of Microstructure and Mechanical Property of Inconel 718 From Selective Laser Melting. 2015 ,		12
516	Reinforcing Inconel 718 Superalloy by Nano-TiC Particles in Selective Laser Melting. 2015 ,		1
515	Layer thickness dependence of performance in high-power selective laser melting of 1Cr18Ni9Ti stainless steel. 2015 , 215, 142-150		123
514	Textures formed in a CoCrMo alloy by selective laser melting. <i>Journal of Alloys and Compounds</i> , 2015 , 631, 153-164	5-7	175
513	Investigation into the effect of process parameters on microstructural and physical properties of 316L stainless steel parts by selective laser melting. 2015 , 76, 869-879		362
512	Study on the microstructure, mechanical property and residual stress of SLM Inconel-718 alloy manufactured by differing island scanning strategy. 2015 , 75, 197-206		243
511	Influence of element vaporization on formability, composition, microstructure, and mechanical performance of the selective laser melted MgZnZr components. 2015 , 156, 187-190		78
510	Electron microscopy study of direct laser deposited IN718. 2015 , 106, 324-337		56
509	Effect of standard heat treatment on the microstructure and mechanical properties of selective laser melting manufactured Inconel 718 superalloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 644, 32-40	5-3	319
508	Effect of energy input on microstructural evolution of direct laser fabricated IN718 alloy. 2015 , 106, 420-427		82
507	Surface morphology of Ti6Al4V plate fabricated by vacuum selective laser melting. 2015 , 119, 545-549		29
506	Synthesis of High-Temperature Self-lubricating Wear Resistant Composite Coating on Ti6Al4V Alloy by Laser Deposition. 2015 , 24, 1881-1889		13
505	Selective laser melting of in-situ Al4SiC4 + SiC hybrid reinforced Al matrix composites: Influence of starting SiC particle size. 2015 , 272, 15-24		109
504	Selective Laser Melting: Characteristics of IN718 Powder and Microstructures of Fabricated IN718 Sample. 2015 , 29-37		
503	Computational modeling of residual stress formation during the electron beam melting process for Inconel 718. 2015 , 7, 83-91		87
502	Microstructures of Inconel 718 by Selective Laser Melting. 2015 , 461-468		2
501	Microstructure and Mechanical Properties of Inconel 718 Produced by SLM and Subsequent Heat Treatment. 2015 , 651-653, 665-670		43
500	Differences in microstructure and properties between selective laser melting and traditional manufacturing for fabrication of metal parts: A review. 2015 , 10, 111-125		220

499	Texture, anisotropy in microstructure and mechanical properties of IN738LC alloy processed by selective laser melting (SLM). <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 620, 213-222	5.3	249
498	Microstructural characterization of Ti64 fabricated by SLM in vacuum. 2016 ,		
497	Metallic materials for 3D printing. 2016 , 41, 729-741		69
496	Analysis of Selective Laser Melting Process Parameters Effect on Mechanical and Material Properties for Stainless Steel 316L. 2016 , 258, 579-582		
495	Fabrication and heat treatment of high strength Al-Cu-Mg alloy processed using selective laser melting. 2016 ,		6
494	On the microstructural and mechanical properties of post-treated additively manufactured Inconel 718 superalloy under quasi-static and cyclic loading. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 669, 246-258	5.3	130
493	Selective laser melting 3D printing of Ni-based superalloy: understanding thermodynamic mechanisms. 2016 , 61, 1013-1022		71
492	Microstructure Development in Electron Beam-Melted Inconel 718 and Associated Tensile Properties. 2016 , 68, 1012-1020		69
491	Microstructure and mechanical properties of Ti ₆ Al ₄ V: Mill-annealed versus direct metal laser melted alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 666, 43-47	5.3	16
490	Influence of post heat treatments on anisotropy of mechanical behaviour and microstructure of Hastelloy-X parts produced by selective laser melting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 667, 42-53	5.3	135
489	Formation of novel graded interface and its function on mechanical properties of WC1 ₂ reinforced Inconel 718 composites processed by selective laser melting. <i>Journal of Alloys and Compounds</i> , 2016 , 680, 333-342	5.7	63
488	Microstructure and directional fatigue behavior of Inconel 718 produced by selective laser melting. 2016 , 2, 2381-2388		53
487	Production of a sintered alloy based on the TiAl intermetallic compound: Part 2. Investigation into forming and sintering processes. 2016 , 57, 113-123		2
486	Experimental validation of finite element modeling for laser powder bed fusion deformation. 2016 , 12, 108-120		63
485	Build Height Effect on the Inconel 718 Parts Fabricated by Selective Laser Melting. 2016 , 5, 1006-1017		47
484	Superior creep strength of a nickel-based superalloy produced by selective laser melting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 674, 299-307	5.3	116
483	Experimental study on Ti alloy plate fabrication by vacuum selective laser melting. 2016 ,		1
482	Unexpected β Phase Formation in Additive-Manufactured Ni-Based Superalloy. 2016 , 68, 950-959		46

481	Microstructural investigation of as-fabricated and heat-treated Inconel 625 and Inconel 718 fabricated by direct metal laser sintering: contribution of Politecnico di Torino and Istituto Italiano di Tecnologia (IIT) di Torino. 2016 , 71, 273-278		23
480	Effects of cooling condition on microstructure and mechanical properties in laser rapid forming of 34CrNiMo6 thin-wall component. 2016 , 82, 1269-1279		18
479	Study of the effect of heat treatment on the structure and properties of the specimens obtained by the method of direct metal deposition. 2016 , 86, 2567-2574		21
478	Investigation of the microstructure and surface morphology of a Ti6Al4V plate fabricated by vacuum selective laser melting. 2016 , 122, 1		24
477	Microstructure and performance optimisation of stainless steel formed by laser additive manufacturing. 2016 , 32, 1223-1230		25
476	Sensitivity analysis of material and process parameters in finite element modeling of selective laser melting of Inconel 625. 2016 , 86, 2653-2666		53
475	Functionally graded material of 304L stainless steel and inconel 625 fabricated by directed energy deposition: Characterization and thermodynamic modeling. 2016 , 108, 46-54		266
474	Epitaxy and Microstructure Evolution in Metal Additive Manufacturing. 2016 , 46, 125-149		164
473	The metallurgy and processing science of metal additive manufacturing. 2016 , 61, 315-360		1185
472	Long fatigue crack growth in Inconel 718 produced by selective laser melting. <i>International Journal of Fatigue</i> , 2016 , 92, 499-506	5	78
471	Tailoring the texture of IN738LC processed by selective laser melting (SLM) by specific scanning strategies. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 661, 240-246	5.3	156
470	Selective laser melting of high strength AlCuMg alloys: Processing, microstructure and mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 656, 47-54	5.3	272
469	Hybrid additive and subtractive machine tools [Research and industrial developments. <i>International Journal of Machine Tools and Manufacture</i> , 2016 , 101, 79-101	9.4	225
468	Synthesis and characterization of Ni60-hBN high temperature self-lubricating anti-wear composite coatings on Ti6Al4V alloy by laser cladding. 2016 , 78, 87-94		73
467	Review on powder-bed laser additive manufacturing of Inconel 718 parts. 2017 , 231, 1890-1903		112
466	Influences of energy density on microstructure and consolidation of selective laser melted bismuth telluride thermoelectric powder. 2017 , 25, 411-417		34
465	Nanoindentation and wear properties of Ti and Ti-TiB composite materials produced by selective laser melting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 688, 20-26	5.3	184
464	Densification and microstructural investigation of Inconel 718 parts fabricated by selective laser melting. 2017 , 310, 60-66		141

463	Powder bed binder jet 3D printing of Inconel 718: Densification, microstructural evolution and challenges?. 2017 , 21, 207-218		114
462	Microstructure and hardness studies of Inconel 718 manufactured by selective laser melting before and after solution heat treatment. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 689, 220-232	5-3	281
461	Influence of energy density on metallurgy and properties in metal additive manufacturing. 2017 , 33, 1269-1289		75
460	Effect of heat treatment and hot isostatic pressing on the microstructure and mechanical properties of Inconel 625 alloy processed by laser powder bed fusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 689, 1-10	5-3	140
459	Melt pool simulation for the evaluation of process parameters in selective laser melting. 2017 , 14, 116-125		79
458	The Effect of Layer Thickness at Selective Laser Melting. 2017 , 174, 126-134		95
457	Microstructure and mechanical property of selective laser melted Ti6Al4V dependence on laser energy density. 2017 , 23, 217-226		70
456	Effect of crystallographic orientation on mechanical anisotropy of selective laser melted Ti-6Al-4V alloy. 2017 , 127, 137-145		84
455	Effect on beam profile of Ti alloy plate fabrication from powder by sputter-less selective laser melting. 2017 ,		1
454	Microstructure of nickel-base superalloy MAR-M247 additively manufactured through scanning laser epitaxy (SLE). <i>Journal of Alloys and Compounds</i> , 2017 , 705, 806-816	5-7	48
453	Modification of wetting property of Inconel 718 surface by nanosecond laser texturing. 2017 , 414, 313-324		70
452	Comparison on mechanical anisotropies of selective laser melted Ti-6Al-4V alloy and 304 stainless steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 695, 92-100	5-3	74
451	Microstructures and mechanical properties of Ti6Al4V alloy fabricated by multi-laser beam selective laser melting. 2017 , 199, 79-83		43
450	Correlation of the High Power SLM Process with Resulting Material Properties for IN718. 2017 , 162, 179-187		10
449	Additive Manufacturing of Metals: The Technology, Materials, Design and Production. 2017 ,		42
448	Hot isostatic pressing of IN718 components manufactured by selective laser melting. 2017 , 13, 93-102		155
447	Electron Backscatter Diffraction Analysis of Inconel 718 Parts Fabricated by Selective Laser Melting Additive Manufacturing. 2017 , 69, 402-408		32
446	Electrochemical Removal of Different Phases from Laser Solid Formed Inconel 718. 2017 , 164, E151-E157		23

445	Impact of heat treatment on mechanical behaviour of Inconel 718 processed with tailored microstructure by selective laser melting. 2017 , 131, 12-22		169
444	Microstructures and mechanical behavior of Inconel 625 fabricated by solid-state additive manufacturing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 694, 1-9	5.3	84
443	Laser powder bed fusion of nickel alloy 625: Experimental investigations of effects of process parameters on melt pool size and shape with spatter analysis. <i>International Journal of Machine Tools and Manufacture</i> , 2017 , 121, 22-36	9.4	132
442	Powder characterisation techniques and effects of powder characteristics on part properties in powder-bed fusion processes. 2017 , 12, 3-29		170
441	A comparison on metallurgical behaviors of 316L stainless steel by selective laser melting and laser cladding deposition. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 685, 265-273	5.3	187
440	Thermo-mechanical improvement of Inconel 718 using ex situ boron nitride-reinforced composites processed by laser powder bed fusion. 2017 , 7, 14359		20
439	An overview of powder granulometry on feedstock and part performance in the selective laser melting process. 2017 , 18, 228-255		151
438	Analysis of powder steel material, laser sintering technology and machining on surface parameters and fatigue. 2017 , 48, 820-830		0
437	Microstructure evolution characteristics of Inconel 625 alloy from selective laser melting to heat treatment. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 705, 20-31	5.3	112
436	Effects of thermal cycles on the microstructure evolution of Inconel 718 during selective laser melting process. 2017 , 18, 1-14		56
435	Improvement in the oxidation resistance of Nb-Si based alloy by selective laser melting. 2017 , 127, 260-269		32
434	Microstructures and mechanical properties in powder-based additive manufacturing of a nickel-based alloy. 2017 , 58, 269-275		2
433	Wear and corrosion behaviour of Inconel 718 laser surface alloyed with rhenium. 2017 , 132, 349-359		35
432	Residual Stress Enhancement in 3D Printed Inconel 718 Superalloy Treated by Ultrasonic Nano-Crystal Surface Modification. 2017 ,		2
431	Introduction to 3D Printing or Additive Manufacturing. 2017 , 1-29		3
430	Thermal expansion coefficients in Invar processed by selective laser melting. 2017 , 52, 10517-10525		33
429	Anisotropic tensile behavior of in situ precipitation strengthened Inconel 718 fabricated by additive manufacturing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 701, 344-351	5.3	166
428	Effect of different heat treatments on the microstructure and mechanical properties in selective laser melted INCONEL 718 alloy. 2017 , 32, 1588-1595		94

427	Predictive modeling and optimization of multi-track processing for laser powder bed fusion of nickel alloy 625. 2017 , 13, 14-36		36
426	Mechanical behavior of post-processed Inconel 718 manufactured through the electron beam melting process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 680, 338-346	5-3	70
425	Microstructure and strength analysis of eutectic Al-Si alloy in-situ manufactured using selective laser melting from elemental powder mixture. <i>Journal of Alloys and Compounds</i> , 2017 , 691, 316-322	5-7	81
424	Influence of scan strategy and process parameters on microstructure and its optimization in additively manufactured nickel alloy 625 via laser powder bed fusion. 2017 , 90, 1393-1417		78
423	Powder bed fusion processes. 2017 , 55-77		34
422	Effect of the selective laser melting parameters on the structure phase state of a Zr60K-VI nickel superalloy. 2017 , 2017, 594-600		4
421	A novel test method for the fatigue characterization of metal powder bed fused alloys. 2017 , 7, 67-74		7
420	Electrochemical Machining Properties of the Laser Rapid Formed Inconel 718 Alloy in NaNO ₃ Solution. 2017 , 164, E548-E559		21
419	Experimental analysis on melting and solidification process of titanium with synchrotron x ray for development of sputter-less SLM. 2017 ,		
418	Selective Laser Melting of Hot Gas Turbine Components: Materials, Design and Manufacturing Aspects. 2017 , 219, 012022		3
417	Manufacturing Feasibility and Forming Properties of Cu-4Sn in Selective Laser Melting. 2017 , 10,		33
416	Microstructure Evolution and Biodegradation Behavior of Laser Rapid Solidified MgAlZn Alloy. 2017 , 7, 105		21
415	Structure, Texture and Phases in 3D Printed IN718 Alloy Subjected to Homogenization and HIP Treatments. 2017 , 7, 196		135
414	On the fatigue strength enhancement of additive manufactured AlSi10Mg parts by mechanical and thermal post-processing. 2018 , 145, 28-41		129
413	Influence of process parameters and heat treatments on the microstructures and dynamic mechanical behaviors of Inconel 718 superalloy manufactured by laser metal deposition. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 721, 215-225	5-3	47
412	Microstructure evolution, mechanical response and underlying thermodynamic mechanism of multi-phase strengthening WC/Inconel 718 composites using selective laser melting. <i>Journal of Alloys and Compounds</i> , 2018 , 747, 684-695	5-7	23
411	Preheat effect on titanium plate fabricated by sputter-free selective laser melting in vacuum. 2018 , 124, 1		13
410	Machining characteristics of 18Ni-300 steel in additive/subtractive hybrid manufacturing. 2018 , 95, 2509-2519		37

409	Microstructures and Mechanical Properties of Inconel 718 Alloy at Ultralow Temperatures. 2018 , 27, 2060-2069		3
408	Thermofluid field of molten pool and its effects during selective laser melting (SLM) of Inconel 718 alloy. 2018 , 21, 567-578		44
407	Recent advances in the development of aerospace materials. 2018 , 97, 22-34		286
406	A Review of Metal Fabricated with Laser- and Powder-Bed Based Additive Manufacturing Techniques: Process, Nomenclature, Materials, Achievable Properties, and its Utilization in the Medical Sector. <i>Advanced Engineering Materials</i> , 2018 , 20, 1700658	3-5	102
405	Characterization of texture and grain boundary character distributions of selective laser melted Inconel 625 alloy. 2018 , 143, 182-190		42
404	Tensile behavior in selective laser melting. 2018 , 96, 1187-1194		5
403	Modelling of anisotropic elastic properties in alloy 718 built by electron beam melting. 2018 , 34, 529-537		21
402	Metal Alloys for Fusion-Based Additive Manufacturing. <i>Advanced Engineering Materials</i> , 2018 , 20, 17009525		80
401	Influence of laser exposure time and point distance on 75- μ m-thick layer of selective laser melted Alloy 718. 2018 , 94, 2199-2207		35
400	Correlation of mechanical properties to microstructure in Inconel 718 fabricated by Direct Metal Laser Sintering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 712, 539-547	5-3	42
399	Investigations of η , δ and ϵ precipitates in heat-treated Inconel 718 alloy fabricated by selective laser melting. 2018 , 136, 398-406		106
398	Electrochemical behavior of Inconel 718 fabricated by laser solid forming on different sections. 2018 , 132, 79-89		43
397	Role of heat treatment and build orientation in the microstructure sensitive deformation characteristics of IN718 produced via SLM additive manufacturing. 2018 , 22, 479-496		41
396	Ultrasonic Vibration-Assisted Laser Engineered Net Shaping of Inconel 718 Parts: Microstructural and Mechanical Characterization. 2018 , 140,		25
395	Damage reconstruction from tri-dexel data for laser-aided repairing of metallic components. 2018 , 96, 3377-3390		16
394	Characterization of wire arc additive manufacturing 2Cr13 part: Process stability, microstructural evolution, and tensile properties. <i>Journal of Alloys and Compounds</i> , 2018 , 748, 911-921	5-7	46
393	Comparison of microstructures and mechanical properties of Inconel 718 alloy processed by selective laser melting and casting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 724, 357-367	5-3	96
392	Prediction of microstructure in selective laser melted Ti 6Al 4V alloy by cellular automaton. <i>Journal of Alloys and Compounds</i> , 2018 , 748, 281-290	5-7	42

391	Effect of heat treatment on microstructure and mechanical properties of the selective laser melting processed Ti-5Al-2.5Sn Titanium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 709, 301-311	5-3	37
390	Additive manufacturing of metallic components [Process, structure and properties. 2018 , 92, 112-224		2682
389	Hot cracking mechanism affecting a non-weldable Ni-based superalloy produced by selective electron Beam Melting. 2018 , 142, 82-94		210
388	Study of the Evolution of Distortion During the Powder Bed Fusion Build Process Using a Combined Experimental and Modeling Approach ? ?Reprinted from Additive Manufacturing, Vol 12, Dunbar, Alexander J and Denlinger, Erik R and Gouge, Michael F and Michaleris, Pan, Experimental validation of finite element modeling for laser powder bed fusion deformation, Pages No. 108720, Additive Manufacturing of Advanced Multi-Component Alloys: Bulk Metallic Glasses and High Entropy Alloys. <i>Advanced Engineering Materials</i> , 2018 , 20, 1700874		
387	Additive Manufacturing of Advanced Multi-Component Alloys: Bulk Metallic Glasses and High Entropy Alloys. <i>Advanced Engineering Materials</i> , 2018 , 20, 1700874	3-5	55
386	Density determination and simulation of Inconel 718 alloy at normal and metastable liquid states. 2018 , 34, 436-439		33
385	Influence of solution heat treatment on microstructure and tensile properties of Inconel 718 formed by high-deposition-rate laser metal deposition. <i>Journal of Alloys and Compounds</i> , 2018 , 740, 389-399	5-7	37
384	Anisotropy and heterogeneity of microstructure and mechanical properties in metal additive manufacturing: A critical review. 2018 , 139, 565-586		548
383	Porosity of products from electroerosive cobalt-chromium powders, obtained by additive technologies. 2018 , 224, 01125		1
382	Manufacture of Cobalt-Chromium Powders by the Electric Discharge Dispersion of Wastes and Their Investigation. 2018 , 2018, 1177-1180		5
381	Element composition of additive products from electroerosive cobalt-chromium powders. 2018 , 224, 01124		1
380	Hardness of products from electroerosive cobalt-chrome powders, obtained by additive technologies. 2018 , 441, 012004		
379	Mechanical and tribological behaviors of graphene/Inconel 718 composites. 2018 , 28, 1958-1969		28
378	Mechanical Properties of SLM-Titanium Materials for Biomedical Applications: A Review. 2018 , 5, 17906-17913		17
377	Laser Polishing of Additive Manufactured Superalloy. 2018 , 71, 150-154		54
376	Cooling rate effect on tensile strength of laser deposited Inconel 718. 2018 , 26, 912-919		12
375	X-Ray Structural Analysis of Sintered Samples from Electroerosive Cobalt-chrome Powders. 2018 , 327, 032005		
374	Research of mechanical properties of the sintered samples from electro-erosion cobalt-chromium powder. 2018 , 7, 28		

373	The Effect of Rhenium Addition on Microstructure and Corrosion Resistance of Inconel 718 Processed by Selective Laser Melting. 2018 , 49, 6479-6489	5
372	Effect of manufacturing parameters on the microstructure and mechanical properties of metal laser sintering parts of precipitate hardenable metals. 2018 , 99, 2491-2507	21
371	Experimental Investigation on Tool Wear During the Milling Processes for the Post-Processing of Selective Laser Melted Inconel 718 Alloys. 2018 ,	2
370	A review of slicing methods for directed energy deposition based additive manufacturing. 2018 , 24, 1012-1025	29
369	The Hardness of Additively Manufactured Alloys. 2018 , 11,	56
368	Dependence of Nickel Superalloy Structural Defects on Selective Laser Fusion Process Parameters. 2018 , 60, 373-380	0
367	Effect of post processing on the creep performance of laser powder bed fused Inconel 718. 2018 , 24, 486-497	24
366	Solution Treatment Study of Inconel 718 Produced by SLM Additive Technique in View of the Oxidation Resistance. <i>Advanced Engineering Materials</i> , 2018 , 20, 1800351	3.5 26
365	Horizontal dimensional accuracy prediction of selective laser melting. 2018 , 160, 9-20	44
364	Frontiers of Additively Manufactured Metallic Materials. 2018 , 11,	20
363	Increase in Strength and Fretting Resistance of Alloy 718 Using the Surface Modification Process. 2018 , 11,	12
362	The Role of Reinforcing Particle Size in Tailoring Interfacial Microstructure and Wear Performance of Selective Laser Melting WC/Inconel 718 Composites. 2018 , 140,	14
361	Selective laser melting of 24CrNiMo steel for brake disc: Fabrication efficiency, microstructure evolution, and properties. 2018 , 107, 99-109	47
360	Effects of Post-processing on Microstructure and Mechanical Properties of SLM-Processed IN-718. 2018 , 515-526	4
359	Impact of Powder Variability on the Microstructure and Mechanical Behavior of Selective Laser Melted Alloy 718. 2018 , 89-113	7
358	Progress in the Processing and Understanding of Alloy 718 Fabricated Through Powder Bed Additive Manufacturing Processes. 2018 , 69-88	3
357	Early detection of fracture failure in SLM AM tension testing with Talbot-Lau neutron interferometry. 2018 , 22, 658-664	6
356	Inconel 625 lattice structures manufactured by selective laser melting (SLM): Mechanical properties, deformation and failure modes. 2018 , 157, 179-199	147

355	The printability, microstructure, crystallographic features and microhardness of selective laser melted Inconel 718 thin wall. 2018 , 156, 407-418		43
354	Microstructural and Microhardness Evolution from Homogenization and Hot Isostatic Pressing on Selective Laser Melted Inconel 718: Structure, Texture, and Phases. 2018 , 2, 30		23
353	Study of irradiation induced surface pattern and structural changes in Inconel 718 alloy. 2018 , 5, 056503		3
352	Study of the Microstructure and Cracking Mechanisms of Hastelloy X Produced by Laser Powder Bed Fusion. 2018 , 11,		82
351	Effects of Selective Laser Melting additive manufacturing parameters of Inconel 718 on porosity, microstructure and mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 735, 182-190	5:3	142
350	Comparative study of IN600 superalloy produced by two powder metallurgy technologies: Argon Atomizing and Plasma Rotating Electrode Process. 2018 , 156, 302-309		19
349	The utilization of selective laser melting technology on heat transfer devices for thermal energy conversion applications: A review. 2018 , 91, 420-442		113
348	Effect of heat treatment on microstructure evolution of Inconel 718 alloy fabricated by selective laser melting. <i>Journal of Alloys and Compounds</i> , 2018 , 764, 639-649	5:7	92
347	Microstructures and stress rupture properties of pulse laser repaired Inconel 718 superalloy after different heat treatments. <i>Journal of Alloys and Compounds</i> , 2019 , 770, 125-135	5:7	38
346	Hydrogen-assisted failure of laser melting additive manufactured IN718 superalloy. 2019 , 160, 108171		4
345	Investigation on the microstructure and corrosion properties of Inconel 625 alloy fabricated by wire arc additive manufacturing. 2019 , 6, 106568		8
344	Study on the microstructure and creep behavior of Inconel 718 superalloy fabricated by selective laser melting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 765, 138282	5:3	26
343	Tensile Deformation and Fracture Behaviors of a Nickel-Based Superalloy via In Situ Digital Image Correlation and Synchrotron Radiation X-ray Tomography. 2019 , 12,		3
342	Selective laser melting of the hard-to-weld IN738LC superalloy: Efforts to mitigate defects and the resultant microstructural and mechanical properties. <i>Journal of Alloys and Compounds</i> , 2019 , 807, 151662	5:7	28
341	Mitigation of scan strategy effects and material anisotropy through supersolvus annealing in LPBF IN718. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 764, 138230	5:3	22
340	Effect of Layer-Wise Varying Parameters on the Microstructure and Soundness of Selective Laser Melted INCONEL 718 Alloy. 2019 , 12,		5
339	Vacuum brazing of the ultrathin-walled structure using particulate-reinforced composite filler metal: Microstructural evolution and mechanical properties. <i>Journal of Alloys and Compounds</i> , 2019 , 805, 638-647	5:7	7
338	Hot corrosion behaviour of wire-arc additive manufactured Ni-based superalloy ATI 718Plus . 2019 , 158, 108086		20

337	Smooth and notch fatigue behavior of selectively laser melted Inconel 718 with as-built surfaces. <i>International Journal of Fatigue</i> , 2019 , 128, 105211	5	19
336	Study of Formed Oxides in IN718 Alloy during the Fabrication by Selective Laser Melting and Electron Beam Melting. 2019 , 9, 19		17
335	Effect of post-treatments on microstructure and mechanical properties of a novel nickel-based powder metallurgy superalloy processed by selective laser melting. 2019 , 6, 1065e5		4
334	Wire + Arc Additively Manufactured Inconel 718: Effect of post-deposition heat treatments on microstructure and tensile properties. 2019 , 183, 108157		48
333	Effect of Heat Treatment on Microstructure Evolution and Mechanical Properties of Selective Laser Melted Inconel 718 Alloy. 2019 , 28, 5376-5386		5
332	Electrochemical polishing of selective laser melted Inconel 718. 2019 , 34, 239-246		21
331	Effects of different heat treatments on the cyclic material behavior of additively manufactured Inconel 718. 2019 , 18, 586-593		0
330	A review of mechanical properties of additively manufactured Inconel 718. 2019 , 30, 100877		111
329	High-temperature mechanical properties of alloy 718 produced by laser powder bed fusion with different processing parameters. 2019 , 26, 147-160		23
328	Study on the Fabrication of Super-Hydrophobic Surface on Inconel Alloy via Nanosecond Laser Ablation. 2019 , 12,		25
327	High-throughput fabrication of nickel-based alloys with different Nb contents via a dual-feed additive manufacturing system: Effect of Nb content on microstructural and mechanical properties. <i>Journal of Alloys and Compounds</i> , 2019 , 785, 826-837	5.7	36
326	On the solidification behaviour and cracking origin of a nickel-based superalloy during selective laser melting. 2019 , 148, 330-344		72
325	Effect of laser energy density on the microstructure, mechanical properties, and deformation of Inconel 718 samples fabricated by selective laser melting. <i>Journal of Alloys and Compounds</i> , 2019 , 786, 481-488	5.7	58
324	Mechanisms driving high-cycle fatigue life of as-built Inconel 718 processed by laser powder bed fusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 761, 137993	5.3	29
323	Texture and Microstructural Features at Different Length Scales in Inconel 718 Produced by Selective Laser Melting. 2019 , 12,		34
322	Microstructure and mechanical properties of Inconel 625 fabricated by wire-arc additive manufacturing. 2019 , 374, 116-123		75
321	Rolling contact fatigue crack propagation relative to anisotropies in additive manufactured Inconel 625. 2019 , 426-427, 1837-1845		5
320	Mechanical Fatigue of Metals. 2019 ,		6

319	Fatigue Properties of Powder Bed Fused Inconel 718 in As-Built Surface Condition. 2019 , 91-97		3
318	A systematic investigation of the effects of process parameters on heat and fluid flow and metallurgical conditions during laser-based powder bed fusion of Ti6Al4V alloy. 2019 , 139, 213-230		35
317	Laser Additive Manufacturing using directed energy deposition of Inconel-718 wall structures with tailored characteristics. 2019 , 166, 270-278		45
316	Effect of process parameters on morphology, sectional characteristics and crack sensitivity of Ti-40Al-9V-0.5Y alloy single tracks produced by selective laser melting. 2019 , 2, 355-361		7
315	Thermomechanical behavior of laser metal deposited Inconel 718 superalloy over a wide range of temperature and strain rate: Testing and constitutive modeling. 2019 , 135, 13-25		18
314	Effect of scanning strategy and speed on the microstructure and mechanical properties of selective laser melted IN718 nickel-based superalloy. 2019 , 103, 1769-1780		19
313	The Use of Selective Laser Melting as a Method of New Materials Development. 2019 , 403-410		2
312	Powder-bed additive manufacturing for aerospace application: Techniques, metallic and metal/ceramic composite materials and trends. 2019 , 6, 5		24
311	Microstructural Evolution of Post-Processed Hastelloy X Alloy Fabricated by Laser Powder Bed Fusion. 2019 , 12,		26
310	Microstructure and corrosion properties of sensitized laser powder bed fusion printed Inconel 718 to dissolve support structures in a self-terminating manner. 2019 , 27, 526-532		18
309	Varied heat treatments and properties of laser powder bed printed Inconel 718. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 755, 170-180	5:3	44
308	Experimentally validated predictions of thermal history and microhardness in laser-deposited Inconel 718 on carbon steel. 2019 , 27, 540-551		40
307	Study of the Dynamic Recrystallization Process of the Inconel625 Alloy at a High Strain Rate. 2019 , 12,		11
306	Heat treatment of Inconel 718 produced by selective laser melting: Microstructure and mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 750, 98-107	5:3	80
305	Influence of Heat Treatment on Microstructure and Mechanical Properties of Ni-Fe-Co Ternary Alloy Prepared via Spark Plasma Sintering. 2019 , 655, 012030		2
304	Density and volumetric expansion of the Inconel 718 alloy in solid and liquid states. 2019 , 26, 785-788		3
303	The effects of stress relieving heat treatment on the microstructure and residual stress of Inconel 718 fabricated by laser metal powder bed fusion additive manufacturing process. 2019 , 48, 154-163		23
302	Investigation on the Precipitates of IN718 Alloy Fabricated by Selective Laser Melting. 2019 , 9, 1128		14

301	SLM-built titanium materials: great potential of developing microstructure and properties for biomedical applications: a review. 2019 , 6, 122006		6
300	A review of selective laser melting of aluminum alloys: Processing, microstructure, property and developing trends. 2019 , 35, 270-284		400
299	Progress in additive manufacturing on new materials: A review. 2019 , 35, 242-269		283
298	Effect of structural support on microstructure of nickel base superalloy fabricated by laser-powder bed fusion additive manufacturing. 2019 , 26, 30-40		12
297	Numerical study on the effective stiffness of topology-optimized lattice structures made of orthotropic crystal grains with optimal orientation. 2019 , 159, 202-209		3
296	Fragmentation and refinement behavior and underlying thermodynamic mechanism of WC reinforcement during selective laser melting of Ni-based composites. <i>Journal of Alloys and Compounds</i> , 2019 , 777, 693-702	5-7	21
295	Preparation and properties of CoCr alloy denture by selective laser melting. 2019 , 6, 026552		3
294	Additive manufacturing technology empowered complex electromechanical energy conversion devices and transformers. 2019 , 14, 35-50		18
293	Experimental and Taguchi-Based Grey Approach of Laser Metal Deposition Technique on Nickel-Based Superalloy. 2019 , 72, 205-214		29
292	Stress state-dependent mechanics of additively manufactured 304L stainless steel: Part 2 □ Characterization and modeling of macroscopic plasticity behavior. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 743, 824-831	5-3	8
291	Comparative investigation of small punch creep resistance of Inconel 718 fabricated by selective laser melting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 745, 31-38	5-3	28
290	Laser additive manufacturing of FeCrCoMnNi high-entropy alloy: Effect of heat treatment on microstructure, residual stress and mechanical property. <i>Journal of Alloys and Compounds</i> , 2019 , 785, 1144-1159	5-7	107
289	Multiscale characterization of microstructures and mechanical properties of Inconel 718 fabricated by selective laser melting. <i>Journal of Alloys and Compounds</i> , 2019 , 784, 182-194	5-7	44
288	Influence of the focus offset on the defects, microstructure, and mechanical properties of an Inconel 718 superalloy fabricated by electron beam additive manufacturing. <i>Journal of Alloys and Compounds</i> , 2019 , 781, 842-856	5-7	23
287	Microstructure and Properties of 3D Printed Inconel 718 Joint Brazed with BNi-2 Amorphous Filler Metal. 2019 , 22,		3
286	Microstructural evolution and mechanical properties of IN718 alloy fabricated by selective laser melting following different heat treatments. <i>Journal of Alloys and Compounds</i> , 2019 , 772, 861-870	5-7	78
285	Densification behavior, microstructure evolution, and mechanical performances of selective laser melted Ti-5Al-2.5Sn titanium alloy: Effect of laser energy input. <i>Journal of Alloys and Compounds</i> , 2019 , 774, 1024-1035	5-7	14
284	Effect of Heat Treatment on Microstructure and Properties of FG4096M Superalloy Processed by Selective Laser Melting. 2020 , 26, 1270-1285		5

283	Characterization of laser spatter and condensate generated during the selective laser melting of 304L stainless steel powder. 2020 , 31, 100904		15
282	Microstructure and elevated temperature mechanical properties of IN718 alloy fabricated by laser metal deposition. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 771, 138580	5-3	23
281	Microstructural evolution and mechanical properties of Inconel 718 superalloy thin wall fabricated by pulsed plasma arc additive manufacturing. <i>Journal of Alloys and Compounds</i> , 2020 , 819, 152936	5-7	22
280	A Review on Laser Powder Bed Fusion of Inconel 625 Nickel-Based Alloy. 2020 , 10, 81		56
279	An ultra-high strength martensitic steel fabricated using selective laser melting additive manufacturing: Densification, microstructure, and mechanical properties. 2020 , 186, 199-214		73
278	Unidirectional columnar microstructure and its effect on the enhanced creep resistance of selective electron beam melted Inconel 718. <i>Journal of Alloys and Compounds</i> , 2020 , 817, 153320	5-7	11
277	The microstructure evolution and tensile properties of Inconel 718 fabricated by high-deposition-rate laser directed energy deposition. 2020 , 31, 100941		15
276	Microstructure and tensile property of a precipitation strengthened high entropy alloy processed by selective laser melting and post heat treatment. 2020 , 36, 101601		8
275	Toward a better understanding of phase transformations in additive manufacturing of Alloy 718. 2020 , 13, 100862		21
274	Efficient prediction of cracking at solid-lattice support interface during laser powder bed fusion via global-local J-integral analysis based on modified inherent strain method and lattice support homogenization. 2020 , 36, 101590		2
273	Crystallographic texture and velocities of ultrasonic waves in a Ni-based superalloy manufactured by laser powder bed fusion. 2020 , 169, 110607		4
272	Effects of Homogenization Heat Treatment on Mechanical Properties of Inconel 718 Sandwich Structures Manufactured by Selective Laser Melting. 2020 , 10, 645		7
271	The effect of subsequent heat treatment on the evolution behavior of second phase particles and mechanical properties of the Inconel 718 superalloy manufactured by selective laser melting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 794, 139931	5-3	18
270	Functionally Nb graded inconel 718 alloys fabricated by laser melting deposition: mechanical properties and corrosion behavior. 2020 , 67, 16-23		5
269	The Effect of Recrystallization on Creep Properties of Alloy IN939 Fabricated by Selective Laser Melting Process. 2020 , 10, 1016		9
268	The wear resistance additive products derived from EED cobalt powder. 2020 , 795, 012006		
267	Role of the chemical homogenization on the microstructural and mechanical evolution of prolonged heat-treated laser powder bed fused Inconel 625. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 796, 140007	5-3	8
266	Fatigue assessment of as-built and heat-treated Inconel 718 specimens produced by additive manufacturing including notch effects. 2020 , 43, 2326-2336		18

265	Microanalysis of Additive Products from Electro-Erosion Cobalt-Chrome Powders. 2020 , 299, 508-512		
264	The Phase Composition of Products from Electro-Erosive Cobalto-Chrome Powders, Obtained by Additive Technologies. 2020 , 299, 611-616		0
263	Microstructure and mechanical properties of Inconel-625 slab component fabricated by wire arc additive manufacturing. 2020 , 36, 1785-1795		5
262	Characterization of IN718 recycling powder and its effect on LPBF manufactured parts. 2020 , 94, 227-232		5
261	Study on the Effect of Powder-Bed Fusion Process Parameters on the Quality of as-Built IN718 Parts Using Response Surface Methodology. 2020 , 10, 1180		6
260	Microstructural characterization of laser surface-melted Inconel 718. 2020 , 49, 494-509		1
259	Effect of the Volume Energy Density and Heat Treatment on the Defect, Microstructure, and Hardness of L-PBF Inconel 625. 2020 , 51, 5880-5891		8
258	A critical review of corrosion characteristics of additively manufactured stainless steels. 2020 , 1-37		7
257	Corrosion Study of Selective Laser Melted IN718 Alloy upon Post Heat Treatment and Shot Peening. 2020 , 10, 1562		10
256	A Critical Review of the Material Characteristics of Additive Manufactured IN718 for High-Temperature Application. 2020 , 10, 1576		12
255	Inclusion-induced fatigue crack initiation in powder bed fusion of Alloy 718. 2020 , 36, 101670		3
254	Characteristics of Metal Specimens Formed by Selective Laser Melting: A State-of-the-Art Review. 2020 , 30, 7073		3
253	Obtaining and Research of Additive Products from Electroerosive Cobalt-Chrome Powders. 2020 , 795, 012007		
252	Effect of heat treatment on microstructural evolution and hardness homogeneity in laser powder bed fusion of alloy 718. 2020 , 35, 101282		3
251	Fatigue short crack propagation behavior of selective laser melted Inconel 718 alloy by in-situ SEM study: Influence of orientation and temperature. <i>International Journal of Fatigue</i> , 2020 , 139, 105739	5	14
250	Hot Corrosion and Mechanical Performance of Repaired Inconel 718 Components via Laser Additive Manufacturing. 2020 , 13,		5
249	Microstructure of a Ti ₅₀ wt% Ta alloy produced via laser powder bed fusion. 2020 , 33, 981-990		8
248	High temperature dry sliding wear behaviour of laser powder bed fused Inconel 718. 2020 , 34, 101279		4

247	On selective laser melting of Inconel 718: Densification, surface roughness, and residual stresses. 2020 , 193, 108818		53
246	Investigations on the fracture behavior of Inconel 718 superalloys obtained from cast and additive manufacturing processes. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 790, 139666	53	14
245	Microstructural heterogeneity and mechanical anisotropy of 18Ni-330 maraging steel fabricated by selective laser melting: The effect of build orientation and height. 2020 , 35, 2065-2076		12
244	A perspective on the current and future roles of additive manufacturing in process engineering, with an emphasis on heat transfer. 2020 , 19, 100594		18
243	The effect of laser power on the microstructure and wear performance of IN718 superalloy fabricated by laser additive manufacturing. 2020 , 108, 2245-2254		5
242	Droplet spreading and wettability of laser textured C-263 based nickel superalloy. 2020 , 397, 126055		1
241	Spatter behavior for 316L stainless steel fabricated by selective laser melting in a vacuum. 2020 , 134, 106209		5
240	A review on microstructures and properties of high entropy alloys manufactured by selective laser melting. 2020 , 2, 032003		24
239	Quantification of porosity and microstructure and their effect on quasi-static and dynamic behavior of additively manufactured Inconel 718. 2020 , 34, 101380		9
238	Microstructures and Nb-Rich Precipitation Behaviors of Inconel 718 Superalloy Under Sub-rapid Solidification Process. 2020 , 51, 2306-2317		8
237	Effect of defects and specimen size with rectangular cross-section on the tensile properties of additively manufactured components. 2020 , 15, 251-264		13
236	The effect of energy density on texture and mechanical anisotropy in selective laser melted Inconel 718. 2020 , 191, 108642		43
235	Competing crack initiation behaviors of a laser additively manufactured nickel-based superalloy in high and very high cycle fatigue regimes. <i>International Journal of Fatigue</i> , 2020 , 136, 105580	5	41
234	Electron Beam Welding of Inconel 718. 2020 , 48, 428-435		10
233	A comparative analysis of Inconel 718 made by additive manufacturing and suction casting: Microstructure evolution in homogenization. 2020 , 36, 101404		8
232	Composition and Properties of the Powder Fabricated from the Waste of High-Speed R18 Tool Steel by Electroerosion Dispersion. 2020 , 2020, 698-701		
231	A Study of Porosity of Products Sintered from BrS30 Alloy Electro-Erosion Powders. 2020 , 989, 187-191		
230	Obtaining and Research of Additive Products from Electro-Erosive Cobalt-Chrome Powders. 2020 , 989, 801-805		

229	Effects of laser-energy density and build orientation on the structure-property relationships in as-built Inconel 718 manufactured by laser powder bed fusion. 2020 , 36, 101425-101425	11
228	Microstructural and mechanical anisotropy of selective laser melted IN718 superalloy at room and high temperatures using small punch test. 2020 , 162, 110200	21
227	Effects of circular beam oscillation technique on formability and solidification behaviour of selective laser melted Inconel 718: From single tracks to cuboid samples. 2020 , 51, 137-150	16
226	Dynamic-loading behavior and anisotropic deformation of pre- and post-heat-treated IN718 fabricated by laser powder bed fusion. 2020 , 33, 101083	2
225	Thermodynamics analysis and rapid solidification of laser polished Inconel 718 by selective laser melting. 2020 , 511, 145423	24
224	Research progress on selective laser melting (SLM) of magnesium alloys: A review. 2020 , 207, 163842	36
223	Effect of Microstructures and Defects on Dynamic Compression and Shear Performance of Laser Metal Deposited GH4169 Superalloy. 2020 , 33, 04020008	2
222	Effect of in-situ heat treatment and process parameters on the laser-deposited IN718 microstructure and mechanical properties. 2020 , 5, 1245-1257	0
221	A state-of-the-art review on energy consumption and quality characteristics in metal additive manufacturing processes. 2020 , 42, 1	7
220	Tailored microstructures and strengthening mechanisms in an additively manufactured dual-phase high-entropy alloy via selective laser melting. 2020 , 63, 1279-1290	17
219	Development of processing strategies for multigraded selective laser melting of Ti6Al4V and IN718. 2020 , 367, 376-389	15
218	Effect of element wall thickness on the homogeneity and isotropy of hardness in SLM IN718 using nanoindentation. 2021 , 114, 103568	0
217	Effects of heat treatment on microstructure and mechanical properties of selective laser melted Ti-6Al-4V lattice materials. 2021 , 190, 106042	28
216	Effect of Ni content on the transformation behavior and mechanical property of NiTi shape memory alloys fabricated by laser powder bed fusion. 2021 , 134, 106653	7
215	Effects of the powder, laser parameters and surface conditions on the molten pool formation in the selective laser melting of IN718. 2021 , 289, 116930	11
214	Microstructure and mechanical behavior of bright crescent areas in Inconel 718 sample fabricated by selective laser melting. 2021 , 197, 109259	3
213	Hot Deformation Behavior and Dynamic Recrystallization Nucleation Mechanisms of Inconel 625 during Hot Compressive Deformation. <i>Advanced Engineering Materials</i> , 2021 , 23, 2001048	3.5 4
212	Investigation on the influence of heat treatment on Inconel 718 fabricated by selective laser melting: Microstructure and high temperature tensile property. 2021 , 61, 35-45	15

211	The Effect of γ and δ Phase Precipitation on the Mechanical Properties of Inconel 718 Manufactured by Selective Laser Melting: An In Situ Neutron Diffraction and Acoustic Emission Study. 2021 , 73, 223-232		5
210	Microstructure and Residual Stress Evolution of Laser Powder Bed Fused Inconel 718 under Heat Treatments. 2021 , 30, 565-574		9
209	Selective laser melting of Al-3.48Cu-2.03Si-0.48Sc-0.28Zr alloy: Microstructure evolution, properties and metallurgical defects. 2021 , 129, 107008		9
208	A recrystallization heat-treatment to reduce deformation anisotropy of additively manufactured Inconel 718. 2021 , 198, 109228		18
207	X-ray diffraction analysis of powders, obtained by electroerosive dispersion of a W-Ni-Fe alloy. 2021 , 38, 1463-1466		
206	Dimensional characteristics of wear-resistant electroerosive titanium-tungsten-cobalt powders for galvanic coatings. 2021 , 38, 1502-1504		
205	Microstructures and mechanical properties of GTD222 superalloy fabricated by selective laser melting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 807, 140668	5-3	5
204	Isothermal Solid-State Transformations of Inconel 718 Alloy Fabricated by Selective Laser Melting. <i>Advanced Engineering Materials</i> , 2021 , 23, 2000982	3-5	2
203	The effect of hot isostatic pressing and heat treatment on the microstructure and properties of EP741NP nickel alloy manufactured by laser powder bed fusion. 2021 , 37, 101629		4
202	Methods and materials for additive manufacturing: A critical review on advancements and challenges. 2021 , 159, 107228		35
201	Investigation of mechanical properties and microstructures of GH536 fabricated by laser powder bed fusion additive manufacturing. 2021 , 235, 155-165		3
200	Deformation mechanisms of Inconel-718 at the nanoscale by molecular dynamics. 2021 , 23, 10650-10661		2
199	Influence of the post-processing operations on surface integrity of metal components produced by laser powder bed fusion additive manufacturing: a review. 2021 , 25, 118-176		16
198	Investigation of the microhardness of the W-Ni-Fe powder alloy used for the restoration of machine parts. 2021 , 341, 00017		
197	Granulometric composition of powders, obtained by electroerosive dispersion of high-chromium steel in kerosene. 2021 , 38, 1719-1722		
196	Influence of heat treatment on the fatigue resistance of Inconel 718 fabricated by selective laser melting (SLM). 2021 , 46, 7860-7865		3
195	Pore-affected fatigue life scattering and prediction of additively manufactured Inconel 718: An investigation based on miniature specimen testing and machine learning approach. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 802, 140693	5-3	16
194	Thermal Stability of Nanocrystalline Gradient Inconel 718 Alloy. 2021 , 11, 53		0

193	Effect of solutionizing temperature on the microstructural evolution during double aging of powder bed fusion-additive manufactured IN718 alloy. 2021 , 172, 110868		4
192	TEM Characterization of Microstructure Evolution and Mechanical Behavior of the 3D-Printed Inconel 718 Exposed to High Temperature. 2021 , 27, 250-256		1
191	Phase Transformations During Homogenization of Inconel 718 Alloy Fabricated by Suction Casting and Laser Powder Bed Fusion: A CALPHAD Case Study Evaluating Different Homogenization Models. 2021 , 42, 28-41		1
190	Thermoelectrics. 2021 , 327-350		0
189	Microstructural, mechanical and wear behaviour of Inconel-718 produced through laser-powder bed-fused additive manufacturing. 2021 , 37, 326-337		4
188	Characterization of precipitation in gradient Inconel 718 superalloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 804, 140718	5-3	7
187	Effect of input energy on hardness and surface quality in Ti64 by sputter-less selective laser melting with modulated pulse. 2021 , 33, 012031		4
186	Residual stresses and heat treatments of Inconel 718 parts manufactured via metal laser beam powder bed fusion: an overview. 2021 , 113, 3139-3162		6
185	Process parameter optimization for selective laser melting of Inconel 718 superalloy and the effects of subsequent heat treatment on the microstructural evolution and mechanical properties. 2021 , 64, 530-543		8
184	Effect of magnetic Field on the microstructure and mechanical properties of inconel 625 superalloy fabricated by wire arc additive manufacturing. 2021 , 64, 10-19		23
183	Improvement in the Mechanical Properties of Additively Manufactured NiTi-Based Superalloy by Tailoring Microstructures. <i>Advanced Engineering Materials</i> , 2021 , 23, 2100136	3-5	
182	Strengthening mechanisms in selective laser-melted Inconel718 superalloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 812, 141145	5-3	21
181	Failure analysis of bio-inspired corrugated sandwich structures fabricated by laser powder bed fusion under three-point bending. 2021 , 263, 113724		8
180	Precipitate growth kinetics under inhomogeneous concentration fields using a phase-field model. 2021 , 5,		
179	Impact of laser scanning speed on microstructure and mechanical properties of Inconel 718 alloys by selective laser melting. 2021 , 18, 170-179		1
178	Correlative Synchrotron X-ray Imaging and Diffraction of Directed Energy Deposition Additive Manufacturing. 2021 , 209, 116777		17
177	Microhardness as a Function of Process Parameters in Additively Manufactured Alloy 718. 2021 , 30, 6630-6639		0
176	Influence of Heat treatments on Microstructure and Mechanical Properties of Additive Manufactured Inconel 718 Superalloy. 2021 , 6, 1049		1

175	Effects of process interruptions on microstructure and mechanical properties of three face centered cubic alloys processed by laser powder bed fusion. 2021 , 66, 397-406		2
174	Powder Bed Fusion of nickel-based superalloys: A review. <i>International Journal of Machine Tools and Manufacture</i> , 2021 , 165, 103729	9.4	48
173	Tailoring of the Microstructure of Laser Powder Bed Fused Inconel 718 Using Solution Annealing and Aging Treatments. 2021 , 11, 921		3
172	Microstructural evolution and mechanisms in additively manufactured AlCrCuFeNi _x complex concentrated alloys via selective laser melting. <i>Journal of Alloys and Compounds</i> , 2021 , 870, 159443	5.7	5
171	Influence of laser parameters on segregation of Nb during selective laser melting of Inconel 718. 2021 , 18, 379-388		1
170	Additive manufacturing of aluminium alloy 2024 by laser powder bed fusion: microstructural evolution, defects and mechanical properties. 2021 , ahead-of-print,		6
169	Strain Rate and Temperature Effects in Nanoindentation Testing on Hardness in Selective Laser Melting IN718. 2022 , 144,		0
168	Experimental investigation into microstructure, mechanical properties, and cracking mechanism of IN713LC processed by laser powder bed fusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 819, 141527	5.3	9
167	Mechanical and Chemical Characterisation of TiN and AlTiSiN Coatings on a LPBF Processed IN718 Substrate. 2021 , 14,		3
166	Effect of Scan Speed and Laser Power on the Nature of Defects, Microstructures and Microhardness of 3D-Printed Inconel 718 Alloy. 2021 , 30, 7057-7070		1
165	Influence of the base material on the mechanical behaviors of polycrystal-like meta-crystals. 2150004		1
164	Contribution of hot isostatic pressing on densification, microstructure evolution, and mechanical anisotropy of additively manufactured IN718 Ni-based superalloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 823, 141721	5.3	1
163	A Prediction Model for Additive Manufacturing of Inconel 718 Superalloy. 2021 , 11, 8010		4
162	Study of Technological Parameters Influence on Quality of Bulk Samples Manufactured from Inconel 718 by the Selective Laser Melting Method. 2021 , 43, 741-752		0
161	Microstructure and machinability evaluation in micro milling of selective laser melted Inconel 718 alloy. <i>Journal of Materials Research and Technology</i> , 2021 , 14, 348-362	5.5	14
160	Microstructure and Elements Concentration of Inconel 713LC during Laser Powder Bed Fusion through a Modified Cellular Automaton Model. 2021 , 11, 1065		3
159	Effect of Heat Treatment on the Microstructure and Properties of Inconel 718 Alloy Fabricated by Selective Laser Melting. 1		0
158	Review of Powder Bed Fusion Additive Manufacturing for Metals. 2021 , 11, 1391		12

157	Integrated control of molten pool morphology and solidification texture by adjusting pulse duration in laser additive manufacturing of Inconel 718. 2021 , 142, 107137		7
156	High strain rate effect on tensile ductility and fracture of AM fabricated Inconel 718 with voided microstructures. 2021 , 208, 109908		1
155	Fracture and fatigue in additively manufactured metals. 2021 , 219, 117240		20
154	Effect of composition and phase diagram features on printability and microstructure in laser powder bed fusion: Development and comparison of processing maps across alloy systems. 2021 , 47, 102258		0
153	Effect of heat treatments on the microstructure and mechanical properties of an ultra-high strength martensitic steel fabricated via laser powder bed fusion additive manufacturing. 2021 , 47, 102255		2
152	Precipitation behavior of γ phase and its effect on stress rupture properties of selective laser-melted Inconel 718 superalloy. 2021 , 224, 109202		2
151	Direct laser metal deposition additive manufacturing of Inconel 718 superalloy: Statistical modelling and optimization by design of experiments. 2021 , 144, 107380		11
150	In-situ and ex-situ comparison of oxidation of Inconel 718 manufactured by selective laser melting and conventional methods up to 650°C. 2021 , 569, 151037		1
149	Influence of post-processing on very high cycle fatigue resistance of Inconel 718 obtained with laser powder bed fusion. <i>International Journal of Fatigue</i> , 2021 , 153, 106510	5	6
148	Microstructure and mechanical performance of ODS superalloys manufactured by selective laser melting. 2021 , 144, 107423		4
147	Alloy design and adaptation for additive manufacture. 2022 , 299, 117358		10
146	Hydrogen-assisted failure in Inconel 718 fabricated by laser powder bed fusion: The role of solidification substructure in the embrittlement. 2022 , 207, 114308		2
145	Structure and mechanical properties of powders obtained by electrodispersing cobalt-chromium alloy. 2021 , 19, 230-236		1
144	Laser polishing of additive-manufactured Ti alloys and Ni alloys. 2021 , 343-368		1
143	Influence of grain inhomogeneity and precipitates on the stress rupture properties of Inconel 718 superalloy fabricated by selective laser melting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 803, 140702	5.3	4
142	Effect of Carbide Inoculants Additions in IN718 Fabricated by Selective Laser Melting Process. 2020 , 982-989		3
141	Microstructures of Inconel 718 by Selective Laser Melting. 2015 , 461-468		3
140	Growth and spectroscopic properties of Yb0.1Gd1.8La0.1SiO5 crystal: A promising new laser material for ultrashort laser. 2020 , 224, 117340		2

139	Thermo-mechanical simulation of track development in the Laser Beam Melting process - Effect of laser-metal interaction. 529, 012005	2
138	Effect of Post Heat Treatment on the Microstructure and Tensile Properties of Nano TiC Particulate Reinforced Inconel 718 by Selective Laser Melting. 2020 , 142,	10
137	Influence of energy input on spatter generation of 316L stainless steel fabrication by SLM in vacuum. 2019 ,	1
136	Titanium Alloy Plate Fabrication by Sputter-less Selective Laser Melting. 2017 , 137, 265-270	4
135	Specific Characteristics of Materials Produced by Additive Manufacturing as Compared to Those Produced by Established Manufacturing Methods taking the Example of Alloy 718. 2020 , 57, 228-249	1
134	Analysis of Microstructure and Mechanical Properties in As-Built/As-Cast and Heat-Treated Conditions for IN718 Alloy Obtained by Selective Laser Melting and Investment Casting Processes. 2021 , 11, 1196	2
133	Effect of energy on Ti plate fabrication by vacuum selective laser melting for uniformity of grain size. 2021 , 33, 042027	1
132	Laser powder bed fused Inconel 718 in stress-relieved and solution heat-treated conditions. 2021 , 181, 111499	1
131	Microstructure and mechanical properties of Ti-6.5Al-2Zr-Mo-V alloy processed by Laser Powder Bed Fusion and subsequent heat treatments. 2021 , 48, 102382	0
130	Tensile properties of 304 stainless steel fabricated by selective laser melting. 2012 ,	
129	Selective Laser Melting: Characteristics of IN718 Powder and Microstructures of Fabricated IN718 Sample. 2015 , 29-37	
128	Experimental investigation on crystal orientation of Ti6Al4V plate fabricated by vacuum SLM process. 2015 ,	
127	Effect on beam profile of Ti plate fabricated by L-PBF in vacuum. 2016 ,	
126	Development Trend and Progress of Laser Additive Manufacturing for Metal. 2017 , 56, 691-694	
125	Effect of baseplate temperature on sputter-generation for development of SLM in vacuum. 2017 ,	
124	Design for Additive Manufacturing. 2017 , 81-160	2
123	RESEARCH OF INFLUENCE OF PARAMETERS OF DISPERSION IN THE PARTICLE SIZE COBALT POWDERS ARE OBTAINED FOR ADDITIVE TECHNOLOGIES EDM DISPERSION IN ALCOHOL. 2017 , 21, 70-77	
122	THE STUDY OF POROSITY OF SINTERED SAMPLES OF COBALT-CHROMIUM ELECTROEROSION POWDERS. 2017 , 21, 51-59	1

- 121 Development of Sputter-Free Selective Laser Melting. **2018**, 46, 249
- 120 X-ray spectral microanalysis of sintered samples from electroerosive cobalt-chromium powders. **2018**, 16, 83-86
- 119 THE MICROHARDNESS OF THE ADDITIVE PRODUCTS OF THE ELECTRICAL DISCHARGE MACHINING OF COBALT POWDERS. **2018**, 22, 15-23
- 118 Mechanical Properties of Inconel Alloy 718 Produced by 3D Printing using DMLS. **2018**, 18, 559-562 2
- 117 Effect of Spatter Suppression on Ti Plate Fabricated by SLM in Vacuum. **2019**, 8, 9-13
- 116 X-RAY DIFFRACTION ANALYSIS OF THE ADDITIVE PRODUCTS OF ELECTRICAL DISCHARGE MACHINING OF COBALT POWDERS. **2019**, 22, 6-13
- 115 The Study of Particle Size Distribution of Electroerosion Chrome-Containing Powder, Used for Wear Resistant Surfacing. **2019**, 23, 31-41
- 114 Study of the Influence of the Granulometric Composition of Electrospark Cobalt-Chromium Powders on the Physical and Mechanical Properties of Additive Products. **2019**, 23, 57-71
- 113 DEPOSITION OF TiAlV THIN FILMS BY PULSED LASER AND DC MAGNETRON SPUTTERING: STRUCTURAL, COMPOSITIONAL AND ELECTROCHEMICAL CORROSION STUDY. **2020**, 27, 1950188
- 112 Analysis of Wear Resistance Characteristics of Additive Products Made from Electroerosive Cobalt-Chromium Powders. **2019**, 23, 67-81
- 111 The Role of Microstructural Homogenization on Tensile and Stress-Rupture Behavior of Selective Laser Melted Nickel Based 718 Alloy. **2020**, 803-813
- 110 Phase structure and composition of nickel-based superalloy subject to synthesis by selective laser melting parameters and heat treatment. **2020**, 14-22
- 109 Optimization and Finite Element Modelling of Tool Wear in Milling of Inconel 625 Superalloy. 2
- 108 The Impact of Building Orientation on Microhardness and Surface Roughness of Direct Metal Laser Sintered Inconel Alloy. **2021**, 619-628 0
- 107 Investigation of Microstructure and Mechanical Properties of SLM-Produced Inconel 718 and Hastelloy-X Alloys. **2020**, 340-351
- 106 Pure titanium fabrication with spatter-less selective laser melting in vacuum. **2021**, 5, 100184 1
- 105 Cost-Aware Design and Fabrication of New Support Structures in Laser Powder Bed Fusion: Microstructure and Metallurgical Properties. **2021**, 11, 10127 2
- 104 Preparation of Graphene Oxide Based Hydrogel for Diabetics Foot Ulcer. 993, 012164

103	Heat Treated Microstructures and Properties of Additively Manufactured IN718 Superalloy. 2020 , 121, 1382-1392		
102	X-ray spectral microanalysis of hardened additive products made of electroerosion cobalt-chromium alloys. 2020 , 329, 02014		
101	Design and Characterization of Additively Manufactured NGVs Operated in a Small Industrial Gas Turbine. 2020 , 11, 36-44		3
100	Experimental Study of Single Tracks Obtained from a Mixture of Ti and Al Powders with Variable Parameters of the Selective Laser Melting Process. 2021 , 62, 539-544		
99	In situ microstructure analysis of Inconel 625 during laser powder bed fusion. 1		2
98	Laser Powder Bed Fusion (LPBF) of In718 and the Impact of Pre-Heating at 500 and 1000 °C: Operando Study. 2021 , 14,		4
97	Study of the Additive Products of Electroerosive Cobalt-Chrome Powders by X-Ray Methods. 2020 , 14, 1279-1286		
96	Laser Cladding of Ni-Based Superalloys. 2021 , 293-331		
95	Improving surface quality and superficial microstructure of LDED Inconel 718 superalloy processed by hybrid laser polishing. 2022 , 300, 117428		5
94	Cascading of the as-built microstructure through heat treatment and its role on the tensile properties of laser powder bed fused Inconel 718. 2022 , 21, 101272		3
93	3D Multi-Track and Multi-Layer Epitaxy Grain Growth Simulations of Selective Laser Melting. 2021 , 14,		3
92	The evolution of microstructure and composition homogeneity induced by borders in laser powder bed fused Inconel 718 parts. <i>Journal of Alloys and Compounds</i> , 2021 , 898, 162787	5-7	0
91	A review on metallurgical aspects of laser additive manufacturing (LAM): Stainless steels, nickel superalloys, and titanium alloys. <i>Journal of Materials Research and Technology</i> , 2022 , 16, 1029-1068	5-5	5
90	Laser powder bed fusion of the Mn-Cu alloys: Printability, microstructure, and mechanical properties. <i>Journal of Alloys and Compounds</i> , 2022 , 899, 163385	5-7	0
89	Effect of machining and drag finishing on the surface integrity and mechanical properties of Inconel 718 alloys fabricated by laser powder bed fusion additive manufacturing. 2022 , 53, 109-118		0
88	Experimental investigation of laser scan strategy on the microstructure and properties of Inconel 718 parts fabricated by laser powder bed fusion. 2022 , 186, 111765		2
87	Crystal plasticity modeling of additively manufactured metallic microstructures. 2022 , 35, 219-227		1
86	Tribological Property and Thermal Shock Resistance of NiCoCrAlY Coated YSZ Composite Coatings Prepared by Different Laser Additive Manufacturing Scanning Speeds. 2022 , 103184		

85	Additive Products from Electroerosion of Cobalt-Chromium Powder. 2022 , 65, 1157-1162		
84	Fatigue behavior and modeling of additively manufactured IN718: The effect of surface treatments and surface measurement techniques. 2022 , 302, 117475		4
83	High-speed machining of additively manufactured Inconel 718 using hybrid cryogenic cooling methods. 1-18		0
82	Stability of the microstructure and elevated-temperature mechanical properties of additively manufactured Inconel 718 superalloy subjected to long-term in-service thermal cycling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 838, 142770	5-3	2
81	Effects of a modified heat-treatment on microstructure and mechanical properties of additively manufactured Inconel 718. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 838, 142770	5-3	1
80	Corrosion Behavior of Additively Manufactured Inconel 718 Followed by Post Processing. <i>SSRN Electronic Journal</i> ,		1
79	The Influence of Building Direction as Well as Conventional Heat Treatment on the Microstructure, Physical, and Mechanical Characteristics of a Direct Metal Laser Sintered Inconel 718 Alloy. <i>SSRN Electronic Journal</i> ,		1
78	Effect of test temperature and strain-rate on elevated temperature tensile tests of Inconel 718 prepared by selective laser melting. 2022 ,		
77	Laser Powder Bed Fusion of K418 Superalloy: Process, Microstructure, Texture Feature, and Mechanical Property. 2022 , 12, 611		
76	Effects of sandblasting and HIP on very high cycle fatigue performance of SLM-fabricated IN718 superalloy. <i>Journal of Materials Research and Technology</i> , 2022 , 18, 29-43	5-5	1
75	Accelerating optimization of IN718 by mapping alloying effects on phase stabilities and mechanical properties using high-throughput calculations. 2022 , 217, 110603		1
74	The manufacturing process optimization and the mechanical properties of FeCoCrNi high entropy alloys fabricated by selective laser melting. 2022 , 145, 107557		1
73	A critical review on the microstructure and mechanical properties correlation of additively manufactured nickel-based superalloys. <i>Journal of Alloys and Compounds</i> , 2022 , 907, 164530	5-7	8
72	Effect of Fusion Temperature of Electric-Discharge Erosion Cobalt-Chromium Powder Particles on the Quality of Additive Products. 2021 , 50, 562-568		0
71	On the Effect of Heat Input and Interpass Temperature on the Performance of Inconel 625 Alloy Deposited Using Wire Arc Additive Manufacturing Cold Metal Transfer Process. 2022 , 12, 46		1
70	Structure and Properties of the Powders Produced by the Electrodispersion of the Aluminum Waste and Intended for Additive Technologies. 2021 , 2021, 1598-1603		
69	Studies on Mechanical Attrition and Surface Analysis on Heat-Treated Nickel Alloy Developed through Additive Manufacturing. 2022 , 2022, 1-8		
68	Anisotropic damage evolution and modeling for a nickel-based superalloy built by additive manufacturing. 2022 , 108450		1

67	Microstructural Impact on Fatigue Crack Growth Behavior of Alloy 718. 2022 , 12, 710		2
66	The Mechanism of In-Situ Laser Polishing and Its Effect on the Surface Quality of Nickel-Based Alloy Fabricated by Selective Laser Melting. 2022 , 12, 778		0
65	Evaluation of the Possibility of Application of Electroerosive Cobalt-Chromium Powders for Manufacturing Products via Additive Manufacturing.		
64	Microstructure and mechanical properties of in-situ synthesized Ti(N,C) strengthen IN718/1040 steel laminate by directed energy deposition. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 143247	5-3	0
63	A comprehensive literature review on laser powder bed fusion of Inconel superalloys. 2022 , 102871		1
62	Improving Productivity in the Laser Powder Bed Fusion of Inconel 718 by Increasing Layer Thickness: Effects on Mechanical Behavior.		1
61	The microstructure evolution and precipitation behavior of TiB ₂ /Inconel 718 composites manufactured by selective laser melting. 2022 , 79, 510-519		0
60	Additive manufacturing of functionally graded inconel 718: Effect of heat treatment and building orientation on microstructure and fatigue behaviour. 2022 , 306, 117573		1
59	Effect of post fabrication aging treatment on the microstructure, crystallographic texture and elevated temperature mechanical properties of IN718 alloy fabricated by selective laser melting. 2022 , 306, 117622		0
58	The effect of absorption ratio on melt-pool features in laser-based powder bed fusion of IN718. 2022 , 153, 108263		19
57	Thermodynamic coupling in the computation of dendrite growth kinetics for multicomponent alloys. 2022 , 77, 102429		
56	The influence of laser power and scanning speed on the microstructure and surface morphology of Cu ₂ O parts in SLM. 2022 , ahead-of-print,		2
55	Microstructure Evolution and Tensile Properties of a Selectively Laser Melted CoNi-Base Superalloy.		0
54	The influence of building direction and conventional heat treatment on the microstructure, physical, and mechanical characteristics of direct metal laser sintered Inconel 718 alloy. 1-25		
53	Effect of Titanium Nitride Inclusions on the Mechanical Properties of Direct Laser Deposited Inconel 718. <i>SSRN Electronic Journal</i> ,		1
52	Post-processing of additively manufactured metallic alloys [A review]. <i>International Journal of Machine Tools and Manufacture</i> , 2022 , 103908	9-4	3
51	Investigation of novel post-thermal treatments of alloy 718 fabricated by modulated laser powder bed fusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 143502	5-3	0
50	Microstructural evolution & Corrosion behavior of Laser [p]owder-bed [f]used Inconel 718 subjected to surface and heat treatments. <i>Journal of Materials Research and Technology</i> , 2022 ,	5-5	

49	Multi-axial fatigue life assessment of additively manufactured nickel-based superalloys. <i>International Journal of Fatigue</i> , 2022 , 163, 107049	5	0
48	Surface Morphology Refinement and Laves Phase Control of Plasma Arc Additively Manufactured Inconel 718 Via an Alternating Magnetic Field. <i>SSRN Electronic Journal</i> ,	1	
47	Oxidation behavior of Hastelloy X alloy fabricated by selective laser melting and subsequent hot isostatic pressing treatment. <i>Advanced Engineering Materials</i> ,	3.5	0
46	Selective laser melting of CuCrZr alloy: processing optimisation, microstructure and mechanical properties. <i>Journal of Materials Research and Technology</i> , 2022 ,	5.5	0
45	Inconel 718 produced by laser powder bed fusion: an overview of the influence of processing parameters on microstructural and mechanical properties. 2022 , 121, 5651-5675		0
44	Development of Micro Laser Powder Bed Fusion for Additive Manufacturing of Inconel 718. 2022 , 15, 5231		
43	Powder bed fusion additive manufacturing of Ni-based superalloys: a review of the main microstructural constituents and characterization techniques. 2022 , 57, 14135-14187		2
42	Development of microstructure - processing correlations of Inconel718 through additive manufacturing. 2022 ,		
41	Influence of laser powder bed fusion scanning pattern on residual stress and microstructure of alloy 718. 2022 , 221, 110983		0
40	Effect of heat treatment on microstructure and small punch creep property of selective laser melted Inconel 718 alloy. 2022 , 853, 143748		0
39	Influence of heat treatment on the tool life while machining SLM Inconel 718 with reference to C&W Inconel 718. 2022 , 83, 192-202		0
38	Unravelling heterogeneities in sub-grain cellular structure and micromechanical response of additive manufactured Ti-Nb alloys. 2022 , 59, 103146		1
37	Surface morphology refinement and Laves phase control of plasma arc additively manufactured Inconel 718 via an alternating magnetic field. 2022 , 223, 111161		1
36	A review and a statistical analysis of porosity in metals additively manufactured by laser powder bed fusion. 2020 , 210058-210058		0
35	Development of surface roughness from additive manufacturing processing parameters and postprocessing surface modification techniques. 2022 , 193-222		1
34	Powder bed fusionBased additive manufacturing: SLS, SLM, SHS, and DMLS. 2022 , 1-37		0
33	Inconel 718Copper parts fabricated by 3D multi-material laser powder bed fusion: a novel technological and designing approach for rocket engine. 2022 , 122, 2113-2123		0
32	Effect of modulated pulses on the fabrication of Ti-6Al-4V by spatter-less selective laser melting in vacuum. 2022 , 128,		0

31	X-ray spectral microanalysis of W-Ni-Fe heavy tungsten alloy particles used for the restoration of agricultural machinery parts. 2022,	0
30	Investigation of the sinterability of cobalt-chromium powders used for the restoration of agricultural machinery parts. 2022,	0
29	Effects of Specimen Orientation and Heat Treatment on Microstructure and Crack Propagation Path of the IN718 Alloy Built by the Additive Manufacturing Process.	0
28	Influence of GTAW parameters on the mechanical properties and microstructure of wire arc additive manufactured Inconel 625. 2022,	0
27	Electron and laser-based additive manufacturing of Ni-based superalloys: A review of heterogeneities in microstructure and mechanical properties. 2022, 223, 111245	1
26	Coupled effect of microstructure and topology on the mechanical behavior of Inconel718 additively manufactured lattices. 2022, 111294	0
25	Effect of Post-processing on Corrosion Behavior of LPBF Built Inconel 718 Alloy.	0
24	Effect of Scanning Speed on Microstructure and Properties of Inconel 718 Fabricated by Laser Powder Bed Fusion.	0
23	Directed energy deposition of 70 Co-Al-W superalloys. 2022, 103287	0
22	Heat treatment for metal additive manufacturing. 2023, 133, 101051	1
21	Effect of powder particle size distribution on the surface finish of components manufactured by laser powder bed fusion.	0
20	Interface Characteristics and Mechanical Properties of Post-treated Directed Energy Deposition Laminated Composites.	0
19	A State-of-the-Art Review on Fatigue Performance of Powder Bed Fusion-Built Alloy 718. 2022, 101066	1
18	The Influence of Laser Powder Bed Fusion (L-PBF) Process Parameters on 3D-Printed Quality and Stress-strain Behavior of High-Entropy Alloy (HEA) Rod-Lattices. 2022, 12, 2109	0
17	Selective Laser Melting (SLM) Additively Manufactured CoCrFeNiMn High-Entropy Alloy: Process Optimization, Microscale Mechanical Mechanism, and High-Cycle Fatigue Behavior. 2022, 15, 8560	0
16	Role of microstructural phases in enhanced mechanical properties of additively manufactured IN718 alloy. 2022, 144484	1
15	Experimental study of single tracks obtained from a mixture of Ti and Al powders with varying selective laser melting parameters. 2021, 51-58	0
14	Residual Strains in an Additively Processed Ni-based Superalloy Transpiration-Cooled Aerodynamic Leading Edge Structure using Neutron Diffraction. 2023,	0

- 13 A Method to Optimize Parameters Development in L-PBF Based on Single and Multitracks Analysis: A Case Study on Inconel 718 Alloy. **2023**, 13, 306 ○
- 12 The heterogeneous microstructure in laser powder bed fabricated Inconel 718 pillar and its influence on mechanical properties. **2023**, 872, 144953 ○
- 11 Wear mechanism, subsurface structure and nanomechanical properties of additive manufactured Inconel nickel (IN718) alloy. **2023**, 523, 204863 ○
- 10 Modified heat treatment and related microstructure-mechanical property evolution of arc melting additively manufactured GH4169 Ni-based superalloy. **2023**, 947, 169449 ○
- 9 Effect of titanium nitride inclusions on the mechanical properties of direct laser deposited Inconel 718. **2023**, 61, 102009 ○
- 8 Effects of heat treatments on the microstructure and tensile properties of IN738 superalloy with high carbon content fabricated via laser powder bed fusion. **2023**, 953, 170110 ○
- 7 High-Throughput Investigation of Multiscale Deformation Mechanism in Additively Manufactured Ni Superalloy. **2023**, 13, 420 ○
- 6 Effect of Scanning Process and Heat Treatment on Microstructure and Mechanical Property of Inconel 718 Fabricated by Selective Laser Melting. ○
- 5 Metallic Coatings through Additive Manufacturing: A Review. **2023**, 16, 2325 ○
- 4 Selective laser melting of Inconel 718: Effect of thermal treatment on mechanical properties. **2023**, ○
- 3 ??????TiC????Inconel 718?????????????????. **2023**, 50, 0802307 ○
- 2 A lightweight FeMnAlTi austenitic steel with ultra-high strength and ductility fabricated via laser powder bed fusion. **2023**, 145007 ○
- 1 Correlating Alloy Inconel 718 Solidification Microstructure to Local Thermal History Using Laser Powder Bed Fusion Process Monitoring. **2023**, 595-611 ○