

Patrice Peyre

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.

105
papers

5,477
citations

40
h-index

73
g-index

111
ext. papers

6,488
ext. citations

3.5
avg, IF

5.67
L-index

#	Paper	IF	Citations
105	Tracking the role of nitrogen in the improvement of the high temperature oxidation resistance of titanium by mechanical treatments. <i>Corrosion Science</i> , 2022 , 197, 110080	6.8	0
104	Absorptivity measurements during laser powder bed fusion of pure copper with a 1 kW cw green laser. <i>Optics and Laser Technology</i> , 2022 , 147, 107612	4.2	4
103	Influence of laser powder bed fusion process conditions and resulting microstructures on the electromagnetic properties of a 16MnCr5 steel. <i>Additive Manufacturing</i> , 2021 , 41, 101945	6.1	0
102	Influence of gas atmosphere (Ar or He) on the laser powder bed fusion of a Ni-based alloy. <i>Journal of Materials Processing Technology</i> , 2021 , 288, 116851	5.3	17
101	Influence of the position and size of various deterministic defects on the high cycle fatigue resistance of a 316L steel manufactured by laser powder bed fusion. <i>International Journal of Fatigue</i> , 2021 , 143, 105930	5	20
100	Improving the high temperature oxidation resistance of Ti-21S by mechanical surface treatment. <i>MATEC Web of Conferences</i> , 2020 , 321, 04001	0.3	
99	Effect of mechanical surface treatments on the high temperature oxidation of pure titanium: the role of nitrogen. <i>MATEC Web of Conferences</i> , 2020 , 321, 12045	0.3	
98	Laser-induced plume investigated by finite element modelling and scaling of particle entrainment in laser powder bed fusion. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 075306	3	17
97	High temperature oxidation resistance and microstructure of laser-shock peened Ti-Beta-21S. <i>Surface and Coatings Technology</i> , 2020 , 403, 126368	4.4	5
96	Influence of beam diameter on Laser Powder Bed Fusion (L-PBF) process. <i>Additive Manufacturing</i> , 2020 , 36, 101532	6.1	10
95	Reduction of the hot cracking sensitivity of CM-247LC superalloy processed by laser cladding using induction preheating. <i>Journal of Materials Processing Technology</i> , 2020 , 277, 116461	5.3	23
94	Optimization and comparison of porosity rate measurement methods of Selective Laser Melted metallic parts. <i>Additive Manufacturing</i> , 2019 , 28, 802-813	6.1	28
93	Advances in pantographic structures: design, manufacturing, models, experiments and image analyses. <i>Continuum Mechanics and Thermodynamics</i> , 2019 , 31, 1231-1282	3.5	153
92	A competition between the contour and hatching zones on the high cycle fatigue behaviour of a 316L stainless steel: Analyzed using X-ray computed tomography. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 757, 146-159	5.3	31
91	Phenomenological aspects of quasi-perfect pivots in metallic pantographic structures. <i>Mechanics Research Communications</i> , 2019 , 101, 103415	2.2	24
90	Texture control of 316L parts by modulation of the melt pool morphology in selective laser melting. <i>Journal of Materials Processing Technology</i> , 2019 , 264, 21-31	5.3	146
89	Design for additive manufacturing (DfAM) methodologies: a proposal to foster the design of microwave waveguide components. <i>Virtual and Physical Prototyping</i> , 2019 , 14, 175-187	10.1	12

88	Influence of SLM process parameters on the surface finish, porosity rate and fatigue behavior of as-built Inconel 625 parts. <i>Journal of Materials Processing Technology</i> , 2018 , 255, 536-546	5.3	150
87	High temperature durability of a bond-coatless plasma-sprayed thermal barrier coating system with laser textured Ni-based single crystal substrate. <i>Surface and Coatings Technology</i> , 2018 , 337, 168-176	4.4	19
86	Experimental analysis of spatter generation and melt-pool behavior during the powder bed laser beam melting process. <i>Journal of Materials Processing Technology</i> , 2018 , 251, 376-386	5.3	133
85	Analysis and possible estimation of keyhole depths evolution, using laser operating parameters and material properties. <i>Journal of Laser Applications</i> , 2018 , 30, 032410	2.1	32
84	Aluminum to titanium laser welding-brazing in V-shaped groove. <i>Journal of Materials Processing Technology</i> , 2017 , 245, 24-36	5.3	38
83	Analysis of laser melt pool powder bed interaction during the selective laser melting of a stainless steel. <i>Journal of Laser Applications</i> , 2017 , 29, 022303	2.1	83
82	Tailoring residual stress profile of Selective Laser Melted parts by Laser Shock Peening. <i>Additive Manufacturing</i> , 2017 , 16, 90-97	6.1	66
81	3D Laser Shock Peening [A new method for the 3D control of residual stresses in Selective Laser Melting. <i>Materials and Design</i> , 2017 , 130, 350-356	8.1	99
80	Influence of Mechanical Surface Treatment on High-Temperature Oxidation of Pure Titanium. <i>Oxidation of Metals</i> , 2017 , 88, 383-395	1.6	18
79	Study of laser interaction in water flow confinement at high repetition rate. <i>Journal of Laser Applications</i> , 2017 , 29, 042006	2.1	5
78	Development of new duplex treatments on 100Cr6 steel combining Thermochemical Treatments, Laser Shock Peening and Physical Vapour Deposition. <i>Journal of Physics: Conference Series</i> , 2017 , 843, 012080	0.3	1
77	Effect of laser shock peening on the high temperature oxidation resistance of titanium. <i>Surface and Coatings Technology</i> , 2017 , 326, 146-155	4.4	21
76	Simplified numerical model for the laser metal deposition additive manufacturing process. <i>Journal of Laser Applications</i> , 2017 , 29, 022304	2.1	14
75	Laser offset welding of AZ31B magnesium alloy to 316 stainless steel. <i>Journal of Materials Processing Technology</i> , 2017 , 242, 49-59	5.3	62
74	Multiphysics Simulation and Experimental Investigation of Aluminum Wettability on a Titanium Substrate for Laser Welding-Brazing Process. <i>Metals</i> , 2017 , 7, 218	2.3	3
73	Laser Shock Processing on Metal. <i>Metals</i> , 2017 , 7, 409	2.3	2
72	Characterization of Multiperforated Plates Manufactured by SLM and EBM for Aeroengine Applications. <i>Minerals, Metals and Materials Series</i> , 2017 , 61-70	0.3	2
71	Laser adhesion test for thermal sprayed coatings on textured surface by laser. <i>Journal of Laser Applications</i> , 2016 , 28, 022509	2.1	15

70	Laser Patterning Pretreatment before Thermal Spraying: A Technique to Adapt and Control the Surface Topography to Thermomechanical Loading and Materials. <i>Journal of Thermal Spray Technology</i> , 2016 , 25, 401-410	2.5	27
69	FEM Analysis of Fiber Laser Welding of Titanium and Aluminum. <i>Procedia CIRP</i> , 2016 , 41, 992-997	1.8	18
68	Additive layer manufacturing of titanium matrix composites using the direct metal deposition laser process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 677, 171-181	5.3	57
67	Experimental and numerical analysis of the selective laser sintering (SLS) of PA12 and PEKK semi-crystalline polymers. <i>Journal of Materials Processing Technology</i> , 2015 , 225, 326-336	5.3	74
66	Yb:YAG laser offset welding of AA5754 and T40 butt joint. <i>Journal of Materials Processing Technology</i> , 2015 , 223, 139-149	5.3	81
65	Laser surface patterning to enhance adhesion of plasma sprayed coatings. <i>Surface and Coatings Technology</i> , 2015 , 278, 171-182	4.4	70
64	Direct keyhole laser welding of aluminum alloy AA5754 to titanium alloy Ti6Al4V. <i>Journal of Materials Processing Technology</i> , 2015 , 217, 96-104	5.3	84
63	Finite element analysis of laser shock peening of 2050-T8 aluminum alloy. <i>International Journal of Fatigue</i> , 2015 , 70, 480-489	5	87
62	Laser-delayed double shock-wave generation in water-confinement regime. <i>Journal of Laser Applications</i> , 2015 , 27, S29101	2.1	10
61	Influence of a pulsed laser regime on surface finish induced by the direct metal deposition process on a Ti64 alloy. <i>Journal of Materials Processing Technology</i> , 2014 , 214, 485-495	5.3	32
60	Generation and characterization of T40/A5754 interfaces with lasers. <i>Journal of Materials Processing Technology</i> , 2014 , 214, 1946-1953	5.3	24
59	Influence of various process conditions on surface finishes induced by the direct metal deposition laser technique on a Ti6Al4V alloy. <i>Journal of Materials Processing Technology</i> , 2013 , 213, 791-800	5.3	103
58	Direct metal deposition of titanium matrix composites: Optimization of the process and microstructural analysis 2013 ,		1
57	Analysis of laser shock waves and resulting surface deformations in an AlCuLi aluminum alloy. <i>Journal Physics D: Applied Physics</i> , 2012 , 45, 335304	3	33
56	2D longitudinal modeling of heat transfer and fluid flow during multilayered direct laser metal deposition process. <i>Journal of Laser Applications</i> , 2012 , 24, 032008	2.1	71
55	Surface Finish Issues after Direct Metal Deposition. <i>Materials Science Forum</i> , 2012 , 706-709, 228-233	0.4	5
54	Influence of the microstructure and laser shock processing (LSP) on the corrosion behaviour of the AA2050-T8 aluminium alloy. <i>Corrosion Science</i> , 2011 , 53, 3215-3221	6.8	48
53	Influence of process conditions on surface finishes obtained with the direct metal deposition laser technique 2011 ,		2

52	2D finite element modeling of heat transfer and fluid flow during multilayered DMD laser process 2011 ,		2
51	Local electrochemical impedance spectroscopy study of the influence of ageing in air and laser shock processing on the micro-electrochemical behaviour of AA2050-T8 aluminium alloy. <i>Electrochimica Acta</i> , 2011 , 56, 9581-9587	6.7	28
50	Characterization at a local scale of a laser-shock peened aluminum alloy surface. <i>Applied Surface Science</i> , 2011 , 257, 7195-7203	6.7	21
49	Experimental and Numerical Analysis of the Distribution of Residual Stresses Induced by Laser Shock Peening in a 2050-T8 Aluminium Alloy. <i>Materials Science Forum</i> , 2011 , 681, 296-302	0.4	3
48	Laser shock processing with two different laser sources on 2050-T8 aluminum alloy. <i>International Journal of Structural Integrity</i> , 2011 , 2, 87-100	1	14
47	Direct Fabrication of a Ti-47Al-2Cr-2Nb Alloy by Selective Laser Melting and Direct Metal Deposition Processes. <i>Advanced Materials Research</i> , 2010 , 89-91, 586-591	0.5	53
46	Residual Stress Gradient Study of Laser Shocked Aluminum Alloy by GIXRD Analysis and FEM Simulation. <i>Materials Science Forum</i> , 2009 , 614, 61-66	0.4	
45	Characterisation of Residual Stresses Generated by Laser Shock Peening by Neutron and Synchrotron Diffraction 2009 , 383-398		1
44	Galvanised steel to aluminium joining by laser and GTAW processes. <i>Materials Characterization</i> , 2008 , 59, 1705-1715	3.9	96
43	Steel to aluminium braze welding by laser process with Al ₁₂ Si filler wire. <i>Science and Technology of Welding and Joining</i> , 2008 , 13, 430-437	3.7	74
42	Modélisation thermo-diffusionnelle de l'assemblage hétérogène acier/aluminium par mouillage réactif. <i>Mecanique Et Industries</i> , 2008 , 9, 139-143		
41	Morphological and thermal modelling of direct metal deposition: Application to aeronautical alloys 2008 ,		2
40	Laser shock processing of 6056 aluminium alloy and influence of the overlapping rate: 3D modelling and experimental validation 2008 ,		1
39	Analytical and numerical modelling of the direct metal deposition laser process. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 025403	3	201
38	Generation of aluminium-steel joints with laser-induced reactive wetting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 444, 327-338	5.3	110
37	Steel to aluminium key-hole laser welding. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 447, 197-208	5.3	135
36	Influence of thermal and mechanical surface modifications induced by laser shock processing on the initiation of corrosion pits in 316L stainless steel. <i>Journal of Materials Science</i> , 2007 , 42, 6866-6877	4.3	75
35	FEM calculation of residual stresses induced by laser shock processing in stainless steels. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2007 , 15, 205-221	2	119

34	Temperature Criterion of Laser Welding for Joining Aluminum Alloy with Low-Carbon Steel. <i>Materials and Manufacturing Processes</i> , 2006 , 21, 59-61	4.1	10
33	Improving the Properties of Materials With Laser-Peening: An Overview on French Activities 2006 , 185		
32	Nd: YAG laser welding of aluminium to low carbon steel 2004 ,		2
31	Finite element modelling of laser peening and laser peen forming of materials 2004 ,		5
30	Influence of surface preparation and process parameters on the porosity generation in aluminum alloys. <i>Journal of Laser Applications</i> , 2004 , 16, 20-24	2.1	9
29	Laser peening processing effect on mechanical and tribological properties of rolling steel 100Cr6. <i>Wear</i> , 2004 , 256, 311-320	3.5	46
28	Study of keyhole and melt pool oscillations in dual beam welding of aluminum alloys: effect on porosity formation 2003 , 4831, 295		2
27	Effect of controlled shot peening and laser shock peening on the fatigue performance of 2024-T351 aluminum alloy. <i>Journal of Materials Engineering and Performance</i> , 2003 , 12, 414-419	1.6	50
26	Reduction of porosity content generated during Nd:YAG laser welding of A356 and AA5083 aluminium alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 363, 40-52	5.3	198
25	FEM simulation of residual stresses induced by laser Peening. <i>EPJ Applied Physics</i> , 2003 , 23, 83-88	1.1	61
24	Laser-matter interaction in laser shock processing 2003 ,		15
23	Influence of high power diode laser surface melting on the pitting corrosion resistance of type 316L stainless steel. <i>Journal of Materials Science</i> , 2002 , 37, 3715-3723	4.3	36
22	New trends in laser shock wave physics and applications 2002 ,		8
21	Debonding study of Ni-base substrate/Pt coatings interfaces using laser shock waves: characterization of the targets and experimental study. <i>Surface and Coatings Technology</i> , 2001 , 138, 269-277	4.4	10
20	Surface modifications induced in 316L steel by laser peening and shot-peening. Influence on pitting corrosion resistance. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2000 , 280, 294-302	5.3	245
19	Corrosion reactivity of laser-peened steel surfaces. <i>Journal of Materials Engineering and Performance</i> , 2000 , 9, 656-662	1.6	39
18	Experimental determination by PVDF and EMV techniques of shock amplitudes induced by 0.6-3 ns laser pulses in a confined regime with water. <i>Journal Physics D: Applied Physics</i> , 2000 , 33, 498-503	3	50
17	The generation of laser shock waves in a water-confinement regime with 50 ns and 150 ns XeCl excimer laser pulses. <i>Journal Physics D: Applied Physics</i> , 2000 , 33, 2142-2145	3	41

16	Wavelength dependent of laser shock-wave generation in the water-confinement regime. <i>Journal of Applied Physics</i> , 1999 , 85, 7552-7555	2.5	135
15	Laser shock processing of Al-SiC composite coatings. <i>Journal of Thermal Spray Technology</i> , 1999 , 8, 296-309	10	
14	Laser-shock processing of aluminium-coated 55C1 steel in water-confinement regime, characterization and application to high-cycle fatigue behaviour. <i>Journal of Materials Science</i> , 1998 , 33, 1421-1429	4.3	105
13	Experimental study of the transmission of breakdown plasma generated during laser shock processing. <i>EPJ Applied Physics</i> , 1998 , 3, 215-218	1.1	40
12	Current trends in laser shock processing. <i>Surface Engineering</i> , 1998 , 14, 377-380	2.6	42
11	Physics and applications of laser-shock processing. <i>Journal of Laser Applications</i> , 1998 , 10, 265-279	2.1	256
10	Experimental study of laser-driven shock waves in stainless steels. <i>Journal of Applied Physics</i> , 1998 , 84, 5985-5992	2.5	68
9	Laser-shock processing of materials and related measurements 1998 , 3343, 183		2
8	Shock waves from a water-confined laser-generated plasma. <i>Journal of Applied Physics</i> , 1997 , 82, 2826-2832	3.2	367
7	Laser shock processing of materials, physical processes involved and examples of applications. <i>Journal of Laser Applications</i> , 1996 , 8, 135-141	2.1	88
6	Laser shock processing of aluminium alloys. Application to high cycle fatigue behaviour. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1996 , 210, 102-113	5.3	470
5	Electromagnetic Gauge Study of Laser-Induced Shock Waves in Aluminium Alloys. <i>Journal De Physique III</i> , 1995 , 5, 1953-1964		8
4	Laser shock processing of materials. Physical processes involved and examples of applications 1995 ,		1
3	LASER INDUCED SHOCK WAVES AS SURFACE TREATMENT FOR 7075-T7351 ALUMINIUM ALLOY. <i>Surface Engineering</i> , 1995 , 11, 47-52	2.6	34
2	Renforcement d'alliages d'aluminium moulés par ondes de choc laser. <i>Materiaux Et Techniques</i> , 1993 , 81, 7-12	0.6	5
1	Electromagnetic performance of Ti6Al4V and AlSi7Mg0.6 waveguides with laser beam melting (LBM) produced and abrasive flow machining (AFM) finished internal surfaces. <i>Journal of Electromagnetic Waves and Applications</i> , 1-17	1.3	0