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## List of Publications by Year in descending order

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70  
papers

2,999  
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186265

28  
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168389

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docs citations

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times ranked

1257  
citing authors

#	ARTICLE	IF	CITATIONS
1	Grain refinement mechanism of multiple laser shock processing impacts on ANSI 304 stainless steel. <i>Acta Materialia</i> , 2010, 58, 5354-5362.	7.9	344
2	Grain refinement of LY2 aluminum alloy induced by ultra-high plastic strain during multiple laser shock processing impacts. <i>Acta Materialia</i> , 2010, 58, 3984-3994.	7.9	325
3	Microstructural response and grain refinement mechanism of commercially pure titanium subjected to multiple laser shock peening impacts. <i>Acta Materialia</i> , 2017, 127, 252-266.	7.9	276
4	High-performance integrated additive manufacturing with laser shock peening induced microstructural evolution and improvement in mechanical properties of Ti6Al4V alloy components. <i>International Journal of Machine Tools and Manufacture</i> , 2020, 148, 103475.	13.4	201
5	Wear properties and microstructural analyses of Fe-based coatings with various WC contents on H13 die steel by laser cladding. <i>Surface and Coatings Technology</i> , 2019, 369, 228-237.	4.8	126
6	Effects of laser shock processing on stress corrosion cracking susceptibility of AZ31B magnesium alloy. <i>Surface and Coatings Technology</i> , 2010, 204, 3947-3953.	4.8	106
7	Laser shock peening-induced surface gradient stress distribution and extension mechanism in corrosion fatigue life of AISI 420 stainless steel. <i>Corrosion Science</i> , 2020, 177, 109027.	6.6	86
8	Carbide-facilitated nanocrystallization of martensitic laths and carbide deformation in AISI 420 stainless steel during laser shock peening. <i>International Journal of Plasticity</i> , 2022, 150, 103191.	8.8	69
9	Effects of laser shock peening on the hot corrosion behaviour of the selective laser melted Ti6Al4V titanium alloy. <i>Corrosion Science</i> , 2021, 188, 109558.	6.6	63
10	Effects of laser shock processing on mechanical properties of Fe-Ni alloy. <i>Materials &amp; Design</i> , 2009, 30, 3673-3678.	5.1	52
11	Tensile properties and surface nanocrystallization analyses of H62 brass subjected to room-temperature and warm laser shock peening. <i>Journal of Alloys and Compounds</i> , 2017, 698, 633-642.	5.5	52
12	Microstructural evolution and characteristics of bonding zone in multilayer laser cladding of Fe-based coating. <i>Journal of Materials Processing Technology</i> , 2019, 263, 50-58.	6.3	52
13	Thermal Cycling Behavior of Thermal Barrier Coatings with MCrAlY Bond Coat Irradiated by High-Current Pulsed Electron Beam. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 32541-32556.	8.0	51
14	Effects of laser shock peening on the micro-hardness, tensile properties, and fracture morphologies of CP-Ti alloy at different temperatures. <i>Applied Surface Science</i> , 2018, 431, 122-134.	6.1	51
15	Effects of laser energy on fatigue crack growth properties of 6061-T6 aluminum alloy subjected to multiple laser peening. <i>Engineering Fracture Mechanics</i> , 2013, 99, 87-100.	4.3	50
16	Effects of coverage layer on the electrochemical corrosion behaviour of Mg-Al-Mn alloy subjected to massive laser shock peening treatment. <i>Journal of Alloys and Compounds</i> , 2019, 782, 1058-1075.	5.5	49
17	Achieving high strength and ductility in selective laser melting Ti-6Al-4V alloy by laser shock peening. <i>Journal of Alloys and Compounds</i> , 2022, 899, 163335.	5.5	47
18	Effects of different shocked paths on fatigue property of 7050-T7451 aluminum alloy during two-sided laser shock processing. <i>Materials &amp; Design</i> , 2011, 32, 480-486.	5.1	46

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19	Effects of laser shock peening on microstructural evolution and wear property of laser hybrid remanufactured Ni25/Fe104 coating on H13 tool steel. <i>Journal of Materials Processing Technology</i> , 2021, 291, 117016.	6.3	46
20	Effect of laser peening with different energies on fatigue fracture evolution of 6061-T6 aluminum alloy. <i>Optics and Laser Technology</i> , 2016, 77, 169-176.	4.6	42
21	Hot corrosion behaviour of thermally sprayed CoCrAlY coating irradiated by high-current pulsed electron beam. <i>Journal of Alloys and Compounds</i> , 2019, 784, 1221-1233.	5.5	42
22	Comparing corrosion behavior of additively manufactured Cr-rich stainless steel coating between conventional and extreme high-speed laser metal deposition. <i>Corrosion Science</i> , 2022, 195, 109976.	6.6	42
23	Effects of scanning path and overlapping rate on residual stress of 316L stainless steel blade subjected to massive laser shock peening treatment with square spots. <i>Applied Surface Science</i> , 2019, 481, 1053-1063.	6.1	40
24	Residual stress distribution of Ti-6Al-4V alloy under different ns-LSP processing parameters. <i>Applied Surface Science</i> , 2013, 285, 607-615.	6.1	39
25	Microstructural modifications and high-temperature oxidation resistance of arc ion plated NiCoCrAlYSiHf coating via high-current pulsed electron beam. <i>Corrosion Science</i> , 2021, 182, 109281.	6.6	39
26	Plastic-deformation-driven SiC nanoparticle implantation in an Al surface by laser shock wave: Mechanical properties, microstructure characteristics, and synergistic strengthening mechanisms. <i>International Journal of Plasticity</i> , 2018, 102, 83-100.	8.8	38
27	Mechanical properties and electrochemical corrosion resistance of multilayer laser clad Fe-based composite coatings on 4Cr5MoSiV1 steel. <i>Journal of Materials Processing Technology</i> , 2020, 284, 116736.	6.3	38
28	Microstructure evolution and mechanical properties of aging 6061 Al alloy via laser shock processing. <i>Journal of Alloys and Compounds</i> , 2019, 803, 1112-1118.	5.5	36
29	Effects of overlapping rate on the uniformities of surface profile of LY2 Al alloy during massive laser shock peening impacts. <i>Surface and Coatings Technology</i> , 2015, 266, 49-56.	4.8	28
30	Tensile properties, residual stress distribution and grain arrangement as a function of sheet thickness of Mg-Al-Mn alloy subjected to two-sided and simultaneous LSP impacts. <i>Applied Surface Science</i> , 2016, 369, 366-376.	6.1	28
31	Effects of service temperature on tensile properties and microstructural evolution of CP titanium subjected to laser shock peening. <i>Journal of Alloys and Compounds</i> , 2019, 770, 732-741.	5.5	28
32	Laser shock wave-induced wear property improvement and formation mechanism of laser cladding Ni25 coating on H13 tool steel. <i>Journal of Materials Processing Technology</i> , 2021, 296, 117202.	6.3	26
33	High-speed-rate direct energy deposition of Fe-based stainless steel: Process optimization, microstructural features, corrosion and wear resistance. <i>Journal of Manufacturing Processes</i> , 2022, 75, 243-258.	5.9	24
34	On the influence of laser peening with different coverage areas on fatigue response and fracture behavior of Ti-6Al-4V alloy. <i>Engineering Fracture Mechanics</i> , 2015, 147, 72-82.	4.3	23
35	Improvement mechanism in stress corrosion resistance of the X70 pipeline steel in hydrogen sulfide solution by massive laser shock peening treatment. <i>Corrosion Science</i> , 2022, 201, 110293.	6.6	23
36	Effects of laser shock peening with different coverage layers on fatigue behaviour and fractural morphology of Fe-Cr alloy in NaCl solution. <i>Journal of Alloys and Compounds</i> , 2019, 773, 168-179.	5.5	22

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37	Surface textural features and its formation process of AISI 304 stainless steel subjected to massive LSP impacts. <i>Optics and Lasers in Engineering</i> , 2014, 55, 136-142.	3.8	21
38	Influence of laser shock peening on the coefficient of thermal expansion of Al (7075)-based hybrid composites. <i>Journal of Alloys and Compounds</i> , 2020, 844, 156088.	5.5	20
39	Microstructural features and corrosion behavior of Fe-based coatings prepared by an integrated process of extreme high-speed laser additive manufacturing. <i>Surface and Coatings Technology</i> , 2021, 422, 127500.	4.8	20
40	Effects of laser shock processing on mechanical properties of laser welded ANSI 304 stainless steel joint. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2012, 25, 285-292.	3.7	19
41	Hot corrosion behaviors of directed energy deposited Inconel 718/Haynes 25 functionally graded material at 700ÅÅ°C and 900ÅÅ°C. <i>Corrosion Science</i> , 2022, 197, 110040.	6.6	18
42	Investigation and microstructural analyses of massive LSP impacts with coverage area on crack initiation location and tensile properties of AM50 magnesium alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 650, 110-118.	5.6	17
43	Finite element and experimental analysis of elevated-temperature fatigue behavior of IN718 alloy subjected to laser peening. <i>International Journal of Fatigue</i> , 2020, 131, 105337.	5.7	17
44	Effects of heat treatment on hot corrosion behavior of directed energy deposited In718/316L functionally graded material. <i>Corrosion Science</i> , 2022, 197, 110068.	6.6	17
45	Effects of Ni25 transitional layer on microstructural evolution and wear property of laser clad composite coating on H13 tool steel. <i>Surface and Coatings Technology</i> , 2020, 402, 126488.	4.8	16
46	Microstructural evolution and tensile property enhancement of remanufactured Ti6Al4V using hybrid manufacturing of laser directed energy deposition with laser shock peening. <i>Additive Manufacturing</i> , 2022, 55, 102877.	3.0	16
47	Hot Corrosion and Mechanical Performance of Repaired Inconel 718 Components via Laser Additive Manufacturing. <i>Materials</i> , 2020, 13, 2128.	2.9	14
48	Thermal fatigue life and improvement mechanism of Fe-based coatings on H13 extrusion die by laser additive remanufacturing. <i>Surface and Coatings Technology</i> , 2021, 408, 126808.	4.8	14
49	4D Printing of Ag Nanowire-Embedded Shape Memory Composites with Stable and Controllable Electrical Responsivity: Implications for Flexible Actuators. <i>ACS Applied Nano Materials</i> , 2022, 5, 6221-6231.	5.0	14
50	Influence of depositing sequence and materials on interfacial characteristics and mechanical properties of laminated composites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 827, 142092.	5.6	13
51	Improvement of Damping Property and Its Effects on the Vibration Fatigue in Ti6Al4V Titanium Alloy Treated by Warm Laser Shock Peening. <i>Metals</i> , 2019, 9, 746.	2.3	10
52	Laser shock micro-bulk forming: Numerical simulation and experimental research. <i>Journal of Manufacturing Processes</i> , 2021, 64, 1273-1286.	5.9	10
53	Effect of submicron SiC particle on friction and wear properties of copper matrix composites under oil-lubricated condition. <i>Advanced Composite Materials</i> , 2013, 22, 191-202.	1.9	9
54	Effect of laser oscillating welding on microstructure and mechanical properties of 40Cr steel/45 steel fillet welded joints. <i>Optik</i> , 2021, 231, 166458.	2.9	8

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55	Cavitation erosion behaviour of AISI 420 stainless steel subjected to laser shock peening as a function of the coverage layer in distilled water and water-particle solutions. <i>Wear</i> , 2021, 470-471, 203611.	3.1	8
56	Experimental study and finite element simulation of hydrogen permeation resistance of Ti-6Al-4V alloy strengthened by laser peening. <i>Surface and Coatings Technology</i> , 2020, 400, 126217.	4.8	7
57	Microstructure and mechanical properties of directed energy deposited 316L/Ti6Al4V functionally graded materials via constant/gradient power. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 839, 142870.	5.6	7
58	Microstructure and mechanical properties of in-situ synthesized Ti(N,C) strengthen IN718/1040 steel laminate by directed energy deposition. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, , 143247.	5.6	7
59	Laser shock peening-induced misfit dislocation at interfaces between HCP and BCC crystals of Ti6Al4V alloy and the corresponding dislocation patterns in two phases. <i>Surface and Coatings Technology</i> , 2022, 440, 128513.	4.8	7
60	Laser shock forming of SUS304 stainless steel sheet with elliptical spot. <i>International Journal of Advanced Manufacturing Technology</i> , 2011, 56, 987-993.	3.0	6
61	Modeling, calculation, and experimental verification on the implantation depth of laser shock wave-driven WC nanoparticle into 5A06 aluminum alloy. <i>Journal of Alloys and Compounds</i> , 2018, 762, 334-339.	5.5	6
62	Effects of surface curvature on residual stress field of 316L stainless steel subjected to laser shock peening. <i>Optics and Laser Technology</i> , 2021, 144, 107420.	4.6	6
63	Effects of crystallographic orientations and grain boundaries on nanoscratching behaviour of unique bi-crystal Cu. <i>Wear</i> , 2022, 498-499, 204313.	3.1	6
64	Effect of post-heat treatment on the microstructure and mechanical properties of laser metal deposition Inconel 718. <i>Journal of Mechanical Science and Technology</i> , 2021, 35, 2871-2878.	1.5	5
65	Atomic-scale study of dislocation-grain boundary interactions in Cu bicrystal by Berkovich nanoindentation. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 840, 143012.	5.6	5
66	An unsymmetric 8-node plane element immune to mesh distortion for linear isotropic hardening material. <i>International Journal for Numerical Methods in Engineering</i> , 2021, 122, 5540-5557.	2.8	3
67	A computational approach with surface-based cohesive contact for meso-scale interface damage simulation in 3D braided composites. <i>Journal of Industrial Textiles</i> , 2020, , 152808372098017.	2.4	2
68	Effects on mechanical properties in electron beam welding of TC4 alloy by laser shock processing. <i>Frontiers of Mechanical Engineering in China</i> , 2007, 2, 478-482.	0.4	1
69	DEFORMATION ANALYSIS OF H62 Cu ALLOY FOIL SUBJECTED TO MULTI-PULSED LASER DYNAMIC FORMING: SIMULATIONS. <i>Surface Review and Letters</i> , 2020, 27, 1950102.	1.1	0
70	Cracks Analysis of Graded Structural Material Fabricated by Hybrid Additive and Subtractive Manufacturing. <i>Jom</i> , 2021, 73, 2859-2867.	1.9	0