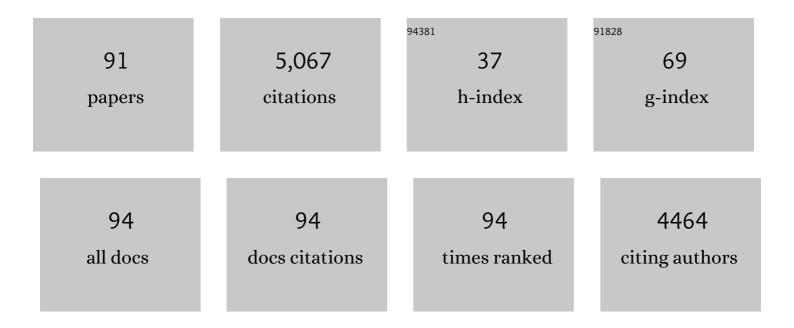
Sara Bagherifard

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Analysing the Fatigue Behaviour and Residual Stress Relaxation of Gradient Nano-Structured 316L Steel Subjected to the Shot Peening via Deep Learning Approach. Metals and Materials International, 2022, 28, 112-131.	1.8	37
2	Application of artificial intelligence to optimize the process parameters effects on tensile properties of Ti-6Al-4V fabricated by laser powder-bed fusion. International Journal of Mechanics and Materials in Design, 2022, 18, 199-222.	1.7	24
3	Fatigue behaviour of notched laser powder bed fusion AlSi10Mg after thermal and mechanical surface post-processing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 829, 142145.	2.6	44
4	Hybrid thermal, mechanical and chemical surface post-treatments for improved fatigue behavior of laser powder bed fusion AlSi10Mg notched samples. Surface and Coatings Technology, 2022, 430, 127962.	2.2	26
5	Individual and synergistic effects of thermal and mechanical surface post-treatments on wear and corrosion behavior of laser powder bed fusion AlSi10Mg. Journal of Materials Processing Technology, 2022, 302, 117479.	3.1	35
6	Structural Integrity of Metal Deposits Obtained Using Cold Spray Solid-State Deposition. , 2022, , .		0
7	Effects of different mechanical and chemical surface post-treatments on mechanical and surface properties of as-built laser powder bed fusion AlSi10Mg. Surface and Coatings Technology, 2022, 439, 128391.	2.2	24
8	Estimating deposition efficiency and chemical composition variation along thickness for cold spraying of composite feedstocks. Surface and Coatings Technology, 2022, 436, 128239.	2.2	5
9	The effects of microstructural and chemical surface gradients on fatigue performance of laser powder bed fusion AlSi10Mg. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 840, 142962.	2.6	17
10	Extending conventional surface roughness ISO parameters using topological data analysis for shot peened surfaces. Scientific Reports, 2022, 12, 5538.	1.6	5
11	Dry Sliding Wear and Corrosion Performance of Mg-Sn-Ti Alloys Produced by Casting and Extrusion. Materials, 2022, 15, 3533.	1.3	4
12	On the effects of laser shock peening on fatigue behavior of V-notched AlSi10Mg manufactured by laser powder bed fusion. International Journal of Fatigue, 2022, 163, 107035.	2.8	35
13	Directing Surface Functions by Inducing Ordered and Irregular Morphologies at Single and Twoâ€Tiered Length Scales. Advanced Engineering Materials, 2021, 23, 2001057.	1.6	9
14	Contribution of ultrasonic surface rolling process to the fatigue properties of TB8 alloy with body-centered cubic structure. Journal of Materials Science and Technology, 2021, 61, 63-74.	5.6	40
15	Surface post-treatments for metal additive manufacturing: Progress, challenges, and opportunities. Additive Manufacturing, 2021, 37, 101619.	1.7	107
16	Effects of Conventional and Severe Shot Peening on Residual Stress and Fatigue Strength of Steel AISI 1060 and Residual Stress Relaxation Due to Fatigue Loading: Experimental and Numerical Simulation. Metals and Materials International, 2021, 27, 2575-2591.	1.8	51
17	Mechanical characterization and interfacial enzymatic activity of AISI 316L stainless steel after surface nanocrystallization. Surface and Coatings Technology, 2021, 405, 126729.	2.2	21

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19	Analyzing the mechano-bactericidal effect of nano-patterned surfaces on different bacteria species. Surface and Coatings Technology, 2021, 408, 126782.	2.2	31
20	The effects of shot peening, laser shock peening and ultrasonic nanocrystal surface modification on the fatigue strength of Inconel 718. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 810, 141029.	2.6	127
21	Tailoring cold spray additive manufacturing of steel 316 L for static and cyclic load-bearing applications. Materials and Design, 2021, 203, 109575.	3.3	33
22	A systematic study on the effects of shot peening on a mild carbon steel: Microstructure, mechanical properties, and axial fatigue strength of smooth and notched specimens. Applied Surface Science Advances, 2021, 4, 100071.	2.9	26
23	Evaluating the Homogeneity of Surface Features Induced by Impact-Based Surface Treatments. Materials, 2021, 14, 3476.	1.3	8
24	Down to the Bone: A Novel Bio-Inspired Design Concept. Materials, 2021, 14, 4226.	1.3	7
25	Numerical Modeling of Bond Formation in Polymer Surface Metallization Using Cold Spray. Journal of Thermal Spray Technology, 2021, 30, 1765-1776.	1.6	12
26	Inclined and multi-directional surface impacts accelerate biodegradation and improve mechanical properties of pure iron. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 119, 104476.	1.5	7
27	3D modelling of the deposit profile in cold spray additive manufacturing. Journal of Manufacturing Processes, 2021, 67, 521-534.	2.8	15
28	Deformation mechanism and in-situ TEM compression behavior of TB8 β titanium alloy with gradient structure. Journal of Materials Science and Technology, 2021, 84, 105-115.	5.6	22
29	A numerical Approach to design and develop freestanding porous structures through cold spray multi-material deposition. Surface and Coatings Technology, 2021, 421, 127423.	2.2	8
30	Damage tolerance assessment of AM 304L and cold spray fabricated 316L steels and its implications for attritable aircraft. Engineering Fracture Mechanics, 2021, 254, 107916.	2.0	15
31	Effects of surface nanocrystallization on the anodic oxidation behavior of Aluminum. Forces in Mechanics, 2021, 4, 100028.	1.3	0
32	A hybrid framework to estimate the surface state and fatigue performance of laser powder bed fusion materials after shot peening. Applied Surface Science, 2021, 567, 150758.	3.1	11
33	Introducing gradient severe shot peening as a novel mechanical surface treatment. Scientific Reports, 2021, 11, 22035.	1.6	23
34	Thermographic Analysis of Composite Metallization through Cold Spray. Metals, 2021, 11, 1860.	1.0	2
35	Fatigue performance of cold spray deposits: Coating, repair and additive manufacturing cases. International Journal of Fatigue, 2020, 139, 105744.	2.8	54
36	Application of shot peening to case-hardened steel gears: the effect of gradient material properties and component geometry. Surface and Coatings Technology, 2020, 398, 126084.	2.2	16

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37	Design and analysis of additive manufactured bimodal structures obtained by cold spray deposition. Additive Manufacturing, 2020, 33, 101131.	1.7	14
38	Effect of phosphating time on protection properties of hurealite coating: Differences between ground and shot peened HSLA steel surface. Surface and Coatings Technology, 2019, 375, 608-620.	2.2	17
39	Accelerated biodegradation and improved mechanical performance of pure iron through surface grain refinement. Acta Biomaterialia, 2019, 98, 88-102.	4.1	39
40	Enhancing the Structural Performance of Lightweight Metals by Shot Peening. Advanced Engineering Materials, 2019, 21, 1801140.	1.6	49
41	Breathable hydrogel dressings containing natural antioxidants for management of skin disorders. Journal of Biomaterials Applications, 2019, 33, 1265-1276.	1.2	30
42	Nanostructured akermanite glass-ceramic coating on Ti6Al4V for orthopedic applications. Journal of Applied Biomaterials and Functional Materials, 2019, 17, 228080001879381.	0.7	4
43	On the fatigue strength enhancement of additive manufactured AlSi10Mg parts by mechanical and thermal post-processing. Materials and Design, 2018, 145, 28-41.	3.3	216
44	Cold spray deposition for additive manufacturing of freeform structural components compared to selective laser melting. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 721, 339-350.	2.6	78
45	Effects of nanofeatures induced by severe shot peening (SSP) on mechanical, corrosion and cytocompatibility properties of magnesium alloy AZ31. Acta Biomaterialia, 2018, 66, 93-108.	4.1	167
46	Flexible Bioelectronics: Blending Electronics with the Human Body: A Pathway toward a Cybernetic Future (Adv. Sci. 10/2018). Advanced Science, 2018, 5, 1870059.	5.6	1
47	Blending Electronics with the Human Body: A Pathway toward a Cybernetic Future. Advanced Science, 2018, 5, 1700931.	5.6	83
48	An Energetic Approach to Predict the Effect of Shot Peening-Based Surface Treatments. Metals, 2018, 8, 190.	1.0	10
49	Smart Bandage for Monitoring and Treatment of Chronic Wounds. Small, 2018, 14, e1703509.	5.2	257
50	Smart Bandages: Smart Bandage for Monitoring and Treatment of Chronic Wounds (Small 33/2018). Small, 2018, 14, 1870150.	5.2	4
51	Cold Spray Deposition of Freestanding Inconel Samples and Comparative Analysis with Selective Laser Melting. Journal of Thermal Spray Technology, 2017, 26, 1517-1526.	1.6	33
52	A highly adhesive and naturally derived sealant. Biomaterials, 2017, 140, 115-127.	5.7	188
53	Influence of different shot peening treatments on surface state and fatigue behaviour of Al 6063 alloy. Engineering Fracture Mechanics, 2017, 185, 72-81.	2.0	57
54	Incorporating the principles of shot peening for a better understanding of surface mechanical attrition treatment (SMAT) by simulations and experiments. Materials and Design, 2017, 116, 365-373.	3.3	59

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55	Mediating bone regeneration by means of drug eluting implants: From passive to smart strategies. Materials Science and Engineering C, 2017, 71, 1241-1252.	3.8	43
56	Textile Technologies and Tissue Engineering: A Path Toward Organ Weaving. Advanced Healthcare Materials, 2016, 5, 751-766.	3.9	161
57	Nanoscale surface modification of AISI 316L stainless steel by severe shot peening. Materials and Design, 2016, 102, 68-77.	3.3	204
58	Dermal Patch with Integrated Flexible Heater for on Demand Drug Delivery. Advanced Healthcare Materials, 2016, 5, 175-184.	3.9	109
59	pHâ€Sensing Hydrogel Fibers: Flexible pHâ€Sensing Hydrogel Fibers for Epidermal Applications (Adv.) Tj ETQq1	1 0,784314	l rgBT /Overla
60	Flexible pH‣ensing Hydrogel Fibers for Epidermal Applications. Advanced Healthcare Materials, 2016, 5, 711-719.	3.9	172
61	Smart flexible wound dressing with wireless drug delivery. , 2015, , .		11
62	The influence of nanostructured features on bacterial adhesion and bone cell functions on severely shot peened 316L stainless steel. Biomaterials, 2015, 73, 185-197.	5.7	198
63	Characterization of Ti-HA composite fabricated by mechanical alloying. Materials & Design, 2015, 65, 447-453.	5.1	47
64	Effect of severe shot peening on microstructure and fatigue strength of cast iron. International Journal of Fatigue, 2014, 65, 64-70.	2.8	157
65	Application of different fatigue strength criteria to shot peened notched components. Part 1: Fracture Mechanics based approaches. Applied Surface Science, 2014, 289, 180-187.	3.1	35
66	Application of different fatigue strength criteria on shot peened notched parts. Part 2: nominal and local stress approaches. Applied Surface Science, 2014, 289, 173-179.	3.1	23
67	Cell Response to Nanocrystallized Metallic Substrates Obtained through Severe Plastic Deformation. ACS Applied Materials & Interfaces, 2014, 6, 7963-7985.	4.0	109
68	Experimental and numerical study of residual stress evolution in cold spray coating. Applied Surface Science, 2014, 288, 26-33.	3.1	75
69	Mesh sensitivity assessment of shot peening finite element simulation aimed at surface grain refinement. Surface and Coatings Technology, 2014, 243, 58-64.	2.2	39
70	Fatigue strength of Al alloy cold sprayed with nanocrystalline powders. International Journal of Fatigue, 2014, 65, 51-57.	2.8	56
71	Influence of severe shot peening on wear behaviour of an aluminium alloy. Fatigue and Fracture of Engineering Materials and Structures, 2014, 37, 821-829.	1.7	48
72	Fatigue behavior of nitrided and shot peened steel with artificial small surface defects. Engineering Fracture Mechanics, 2013, 103, 2-9.	2.0	37

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73	Failure analysis of a large ball valve for pipe-lines. Engineering Failure Analysis, 2013, 32, 167-177.	1.8	15
74	Fatigue behavior of X70 microalloyed steel after severe shot peening. International Journal of Fatigue, 2013, 55, 33-42.	2.8	98
75	Fatigue behavior of notched steel specimens with nanocrystallized surface obtained by severe shot peening. Materials & Design, 2013, 45, 497-503.	5.1	86
76	Numerical and experimental analysis of surface roughness generated by shot peening. Applied Surface Science, 2012, 258, 6831-6840.	3.1	160
77	On the shot peening surface coverage and its assessment by means of finite element simulation: A critical review and some original developments. Applied Surface Science, 2012, 259, 186-194.	3.1	112
78	Microstructure and fatigue behavior of cold spray coated Al5052. Acta Materialia, 2012, 60, 6555-6561.	3.8	126
79	Fatigue behavior of a low-alloy steel with nanostructured surface obtained by severe shot peening. Engineering Fracture Mechanics, 2012, 81, 56-68.	2.0	190
80	Numerical simulation of cold spray coating. Surface and Coatings Technology, 2011, 205, 5294-5301.	2.2	74
81	Short crack fatigue threshold of a nitrided and shot peened low alloy steel. Procedia Engineering, 2011, 10, 3588-3595.	1.2	1
82	Fatigue properties of nanocrystallized surfaces obtained by high energy shot peening. Procedia Engineering, 2010, 2, 1683-1690.	1.2	35
83	A numerical model of severe shot peening (SSP) to predict the generation of a nanostructured surface layer of material. Surface and Coatings Technology, 2010, 204, 4081-4090.	2.2	153
84	Experimental and Numerical Analysis of Fatigue Properties Improvement in a Titanium Alloy by Shot Peening. , 2010, , .		7
85	Review of shot peening processes to obtain nanocrystalline surfaces in metal alloys. Surface Engineering, 2009, 25, 3-14.	1.1	233
86	Numerical analysis of an improved DCDC specimen for investigating mixed mode fracture in ceramic materials. Computational Materials Science, 2009, 46, 180-185.	1.4	11
87	Effect of Shot Peening on Residual Stresses and Surface Work-Hardening in Cold Sprayed Coatings. Key Engineering Materials, 0, 417-418, 397-400.	0.4	3
88	Effects of Severe Air Blast Shot Peening on Microstructure and Residual Stress State of Al Alloys. Key Engineering Materials, 0, 417-418, 393-396.	0.4	2
89	Influence of Small Surface Defects on Fatigue Limit of Nitrided and Shot Peening Steel. Key Engineering Materials, 0, 417-418, 57-60.	0.4	1
90	Effect of REM Finishing on Fatigue Behavior of a Shot Peened Low Alloy Steel. Key Engineering Materials, 0, 488-489, 290-293.	0.4	1

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91	Numerical Investigation of Ti6Al4V Gradient Lattice Structures with Tailored Mechanical Response. Advanced Engineering Materials, 0, , 2101760.	1.6	5