Qinghua Wang

List of Publications by Year
in descending order

34	746	516710 16	526287 27
papers	citations	h-index	g-index

34	34	34	456
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A grinding force predictive model and experimental validation for the laser-assisted grinding (LAG) process of zirconia ceramic. Journal of Materials Processing Technology, 2022, 302, 117492.	6.3	60
2	Fabrication of textured surface with controllable wettability via laser-thermal hybrid processing. Materials Letters, 2022, 315, 131954.	2.6	10
3	Effect of Laser Surface Structuring on Surface Wettability and Tribological Performance of Bulk Metallic Glass. Crystals, 2022, 12, 748.	2.2	6
4	Experimental investigation and finite element modeling for improved shearing cutting performance using optimized bio-inspired shearing tool. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2022, 44, .	1.6	1
5	Switchable wettability control of titanium via facile nanosecond laser-based surface texturing. Surfaces and Interfaces, 2021, 24, 101122.	3.0	32
6	Experimental investigation and numerical analysis for machinability of alumina ceramic by laser-assisted grinding. Precision Engineering, 2021, 72, 798-806.	3.4	17
7	Modulation and Control of Wettability and Hardness of Zr-Based Metallic Glass via Facile Laser Surface Texturing. Micromachines, 2021, 12, 1322.	2.9	16
8	Mechanical properties, microstructure and chemical composition of naked mole rat incisors. Bioinspired, Biomimetic and Nanobiomaterials, 2021, 10, 146-155.	0.9	0
9	Laser Texturing for Superwetting Titanium Alloy and Investigation of Its Erosion Resistance. Coatings, 2021, 11, 1547.	2.6	15
10	Nanosecond laser-based high-throughput surface nanostructuring (nHSN). Applied Surface Science, 2020, 507, 145136.	6.1	43
11	Roles of chemistry modification for laser textured metal alloys to achieve extreme surface wetting behaviors. Materials and Design, 2020, 192, 108744.	7.0	130
12	Fabrication of mechanically enhanced superhydrophobic surface using nanosecond laser-based high-throughput surface nanostructuring (nHSN). Procedia CIRP, 2020, 87, 257-262.	1.9	4
13	Design of Chemical Surface Treatment for Laser-Textured Metal Alloys to Achieve Extreme Wetting Behavior. ACS Applied Materials & Interfaces, 2020, 12, 18032-18045.	8.0	51
14	Nanosecond pulsed laser processing turns engineering metal alloys antireflective and superwicking. Journal of Manufacturing Processes, 2020, 54, 28-37.	5.9	33
15	Laser process of transparent conducting surfaces for terahertz bandpass ultrathin metamaterials. , 2020, , .		0
16	An Innovative Laser Metasurface Fabrication Technique for Highly Flexible Optoelectronic Devices. Journal of Micro and Nano-Manufacturing, 2020, 8, .	0.7	0
17	An experimental study to characterize a surface treated with a novel laser surface texturing technique: Water repellency and reduced ice adhesion. Surface and Coatings Technology, 2019, 374, 634-644.	4.8	32
18	Design, Fabrication, and Modulation of THz Bandpass Metamaterials. Laser and Photonics Reviews, 2019, 13, 1900071.	8.7	42

#	Article	IF	Citations
19	Nanosecond Pulsed Laser Processing Turns Engineering Metal Alloys Antireflective and Superwicking. Procedia Manufacturing, 2019, 34, 260-268.	1.9	4
20	Novel laser-based metasurface fabrication process for transparent conducting surfaces. Journal of Laser Applications, 2019, 31, 022505.	1.7	10
21	Colorizing Ti-6Al-4V surface via high-throughput laser surface nanostructuring. Journal of Manufacturing Processes, 2019, 43, 70-75.	5.9	20
22	Nanostructuring of laser textured surface to achieve superhydrophobicity on engineering metal surface. Journal of Laser Applications, 2019, 31, .	1.7	42
23	Keyhole cutting of carbon fiber reinforced polymer using a long-duration nanosecond pulse laser. Optics and Lasers in Engineering, 2019, 120, 101-109.	3.8	30
24	High Throughput Laser Process of Transparent Conducting Surfaces for Terahertz Bandpass Ultrathin Metamaterials. Scientific Reports, 2019, 9, 3083.	3.3	10
25	A novel selective laser melting process for glass fiber-reinforced metal matrix composites. Manufacturing Letters, 2018, 18, 27-30.	2.2	14
26	Ultrasonic-vibration-assisted laser annealing of fluorine-doped tin oxide thin films for improving optical and electrical properties: Overlapping rate optimization. Ceramics International, 2018, 44, 22225-22234.	4.8	27
27	Influences of ultrasonic vibration on morphology and photoelectric properties of F-doped SnO2 thin films during laser annealing. Applied Surface Science, 2018, 458, 940-948.	6.1	18
28	Experimental Investigation and Numerical Analysis of Mechanical Ruling for an Aluminum-Coated Diffraction Grating. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2017, 139, .	2.2	8
29	Analysis of plasma characteristics and conductive mechanism of laser assisted pulsed arc welding. Optics and Lasers in Engineering, 2017, 92, 39-47.	3.8	33
30	Selective laser melting of fiber-reinforced glass composites. Manufacturing Letters, 2017, 14, 6-9.	2.2	6
31	Mechanical Ruling of Diffraction Grating: Part II â€" Experimental Investigation and Numerical Simulation. , 2016, , .		0
32	Effect of confinement on surface modification for laser peen forming without protective coating. Surface and Coatings Technology, 2016, 289, 194-205.	4.8	31
33	Mechanical Ruling of Diffraction Grating: Part I â€" Aluminum Film Preparation and Characterization. , 2016, , .		0
34	Tuning Water Adhesion of Superhydrophobic Surface via Facile Laser-Chemical Hybrid Process. Surface Innovations, 0, , 1-8.	2.3	1