

Youqiang Xing

List of Publications by Year in descending order

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56
papers

2,279
citations

218592

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docs citations

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times ranked

1313
citing authors

#	ARTICLE	IF	CITATIONS
1	Cutting performance and wear mechanism of nanoscale and microscale textured Al ₂ O ₃ /TiC ceramic tools in dry cutting of hardened steel. <i>International Journal of Refractory Metals and Hard Materials</i> , 2014, 43, 46-58.	1.7	175
2	Effect of laser surface texturing on Si ₃ N ₄ /TiC ceramic sliding against steel under dry friction. <i>Materials & Design</i> , 2013, 52, 234-245.	5.1	168
3	Erosion wear of CrN, TiN, CrAlN, and TiAlN PVD nitride coatings. <i>International Journal of Refractory Metals and Hard Materials</i> , 2012, 35, 10-16.	1.7	151
4	Effect of microscale texture on cutting performance of WC/Co-based TiAlN coated tools under different lubrication conditions. <i>Applied Surface Science</i> , 2015, 326, 107-118.	3.1	127
5	Performance of femtosecond laser-textured cutting tools deposited with WS ₂ solid lubricant coatings. <i>Surface and Coatings Technology</i> , 2013, 222, 135-143.	2.2	116
6	High friction and low wear properties of laser-textured ceramic surface under dry friction. <i>Optics and Laser Technology</i> , 2017, 93, 24-32.	2.2	93
7	Effect of surface texturing on friction properties of WC/Co cemented carbide. <i>Materials & Design</i> , 2012, 41, 142-149.	5.1	84
8	Tribological properties of dimple-textured titanium alloys under dry sliding contact. <i>Surface and Coatings Technology</i> , 2017, 309, 21-28.	2.2	84
9	Cutting performance and wear characteristics of Al ₂ O ₃ /TiC ceramic cutting tools with WS ₂ /Zr soft-coatings and nano-textures in dry cutting. <i>Wear</i> , 2014, 318, 12-26.	1.5	78
10	MoS ₂ /MXene Aerogel with Conformal Heterogeneous Interfaces Tailored by Atomic Layer Deposition for Tunable Microwave Absorption. <i>Advanced Science</i> , 2022, 9, e2101988.	5.6	76
11	Effect of regular surface textures generated by laser on tribological behavior of Si ₃ N ₄ /TiC ceramic. <i>Applied Surface Science</i> , 2013, 265, 823-832.	3.1	75
12	Experimental Assessment of Laser Textured Cutting Tools in Dry Cutting of Aluminum Alloys. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2016, 138, .	1.3	61
13	Tribological characteristics and advanced processing methods of textured surfaces: a review. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 114, 1241-1277.	1.5	58
14	Fabrication and characterization of micro-channels on Al ₂ O ₃ /TiC ceramic produced by nanosecond laser. <i>Ceramics International</i> , 2018, 44, 23035-23044.	2.3	56
15	Effect of laser surface textures combined with multi-solid lubricant coatings on the tribological properties of Al ₂ O ₃ /TiC ceramic. <i>Wear</i> , 2015, 342-343, 1-12.	1.5	53
16	Assessment in drilling of C/C-SiC composites using brazed diamond drills. <i>Journal of Manufacturing Processes</i> , 2017, 26, 31-43.	2.8	51
17	Effect of femtosecond laser pretreatment on wear resistance of Al ₂ O ₃ /TiC ceramic tools in dry cutting. <i>International Journal of Refractory Metals and Hard Materials</i> , 2014, 43, 291-301.	1.7	45
18	Synergistic effect of surface textures and DLC coatings for enhancing friction and wear performances of Si ₃ N ₄ /TiC ceramic. <i>Ceramics International</i> , 2022, 48, 514-524.	2.3	44

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19	Fabrication and tribological properties of Al ₂ O ₃ /TiC ceramic with nano-textures and WS ₂ /Zr soft-coatings. <i>Surface and Coatings Technology</i> , 2014, 258, 699-710.	2.2	41
20	Formation of bionic surface textures composed by micro-channels using nanosecond laser on Si ₃ N ₄ -based ceramics. <i>Ceramics International</i> , 2021, 47, 12768-12779.	2.3	41
21	Micro-channels machining on polycrystalline diamond by nanosecond laser. <i>Optics and Laser Technology</i> , 2018, 108, 333-345.	2.2	38
22	Unlubricated friction and wear behaviors of Al ₂ O ₃ /TiC ceramic cutting tool materials from high temperature tribological tests. <i>International Journal of Refractory Metals and Hard Materials</i> , 2012, 35, 17-26.	1.7	35
23	Fabrication and tribological behaviors of corner-cube-like dimple arrays produced by laser surface texturing on medical needles. <i>Tribology International</i> , 2015, 92, 553-558.	3.0	35
24	Friction and wear behavior of the PVD (Zr,Ti)N coated cemented carbide against 40Cr hardened steel. <i>International Journal of Refractory Metals and Hard Materials</i> , 2012, 35, 213-220.	1.7	33
25	Fabrication and dry cutting performance of Si ₃ N ₄ /TiC ceramic tools reinforced with the PVD WS ₂ /Zr soft-coatings. <i>Ceramics International</i> , 2015, 41, 10261-10271.	2.3	32
26	LIPSS combined with ALD MoS ₂ nano-coatings for enhancing surface friction and hydrophobic performances. <i>Surface and Coatings Technology</i> , 2020, 385, 125396.	2.2	31
27	Multiple nanoscale parallel grooves formed on Si ₃ N ₄ /TiC ceramic by femtosecond pulsed laser. <i>Applied Surface Science</i> , 2014, 289, 62-71.	3.1	25
28	Analysis of tool-chip interface characteristics of self-lubricating tools with nanotextures and WS ₂ /Zr coatings in dry cutting. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 97, 1637-1647.	1.5	24
29	Comparative assessment of picosecond laser induced plasma micromachining using still and flowing water. <i>Optics and Laser Technology</i> , 2019, 119, 105623.	2.2	24
30	Fabrication of coated tool with femtosecond laser pretreatment and its cutting performance in dry machining SLM-produced stainless steel. <i>Journal of Manufacturing Processes</i> , 2019, 42, 28-40.	2.8	24
31	Ultralow-Voltage-Drivable Artificial Muscles Based on a 3D Structure MXene-PEDOT:PSS/AgNWs Electrode. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 18150-18158.	4.0	24
32	Numerical investigation of the performance of micro-textured cutting tools in cutting of Ti-6Al-4V alloys. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 108, 463-474.	1.5	23
33	Preparation and cutting performance of WS ₂ soft-coated tools. <i>International Journal of Advanced Manufacturing Technology</i> , 2013, 67, 1027-1033.	1.5	21
34	Fabrication of ordered hierarchical structures on stainless steel by picosecond laser for modified wettability applications. <i>Optics Express</i> , 2018, 26, 18998.	1.7	21
35	Effect of overlap and overscan number in laser surface texturing of medical needles. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 120, 229-238.	1.1	20
36	Fabrication of micro-channels on Al ₂ O ₃ /TiC ceramics using picosecond laser induced plasma micromachining. <i>Journal of Manufacturing Processes</i> , 2019, 44, 102-112.	2.8	18

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37	Effect of surface textures on friction properties of Al ₂ O ₃ /TiC ceramics. <i>Surface Engineering</i> , 2012, 28, 605-611.	1.1	17
38	Assessment machining of micro-channel textures on PCD by laser-induced plasma and ultra-short pulsed laser ablation. <i>Optics and Laser Technology</i> , 2020, 125, 106057.	2.2	14
39	Investigation of novel multiscale textures for the enhancement of the cutting performance of Al ₂ O ₃ /TiC ceramic cutting tools. <i>Ceramics International</i> , 2022, 48, 3554-3563.	2.3	14
40	Ultrasonic elliptical vibration texturing of the rake face of carbide cutting tools for adhesion reduction. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 85, 2669-2679.	1.5	13
41	Numerical analyses of rectangular micro-textures in hydrodynamic lubrication regime for sliding contacts. <i>Meccanica</i> , 2021, 56, 365-382.	1.2	13
42	Angle-dependent tribological properties of AlCrN coatings with microtextures induced by nanosecond laser under dry friction. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	1.1	12
43	Design, fabrication and performance evaluation of pulsating heat pipe assisted tool holder. <i>Journal of Manufacturing Processes</i> , 2020, 50, 224-233.	2.8	12
44	Studies on thermal shock resistance of TiN and TiAlN coatings under pulsed laser irradiation. <i>Surface Engineering</i> , 2014, 30, 195-203.	1.1	11
45	Periodic and uniform nanogratings formed on cemented carbide by femtosecond laser scanning. <i>Applied Surface Science</i> , 2013, 282, 518-524.	3.1	9
46	Femtosecond pulsed laser nanotexturing of Al ₂ O ₃ /TiC ceramic. <i>Laser Physics</i> , 2013, 23, 066002.	0.6	9
47	Effect of Scale and Sequence of Surface Textures on the Anti-adhesive Wear Performance of PVD Coated Tool in Dry Machining SLM-Produced Stainless Steel. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2021, 8, 1571-1586.	2.7	8
48	Ultrathin molybdenum disulfide (MoS ₂) film obtained in atomic layer deposition: A mini-review. <i>Science China Technological Sciences</i> , 2021, 64, 2347-2359.	2.0	8
49	Periodic nano-ripples structures fabricated on WC/Co based TiAlN coatings by femtosecond pulsed laser. <i>Surface Engineering</i> , 2015, 31, 271-281.	1.1	7
50	Atomic Layer Deposition-Made MoS ₂ â€“ReS ₂ Nanotubes with Cylindrical Wall Heterojunctions for Ultrasensitive MiRNA-155 Detection. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 10081-10091.	4.0	7
51	Characterization of green Al ₂ O ₃ ceramics surface machined by tools with textures on flankâ€“face in dry turning. <i>International Journal of Applied Ceramic Technology</i> , 2019, 16, 1159-1172.	1.1	6
52	Improving the Performance of Micro-Textured Cutting Tools in Dry Milling of Ti-6Al-4V Alloys. <i>Micromachines</i> , 2021, 12, 945.	1.4	5
53	Fabrication and properties of micro-additive manufactured Ni-based composite coatings by short-pulsed laser. <i>Optics and Laser Technology</i> , 2022, 150, 107973.	2.2	4
54	The design and performance evaluation of assisted chip removal system in helical milling of CFRP/Ti stacks. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 108, 1297-1308.	1.5	3

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55	Ultrasensitive Surface-Enhanced Raman Scattering (SERS) Detection For miRNA-182 Based on CdS/MoS ₂ @AuNPs Fabricated by Atomic Layer Deposition (ALD). <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	2
56	INFLUENCE OF POST-LASER PROCESSING ON THE MECHANICAL AND TRIBOLOGICAL PROPERTIES OF PVD TiAlN COATINGS. <i>Surface Review and Letters</i> , 2020, 27, 1950137.	0.5	0