

# Yiqing Yu

## List of Publications by Year in descending order

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29  
papers

550  
citations

759233

12  
h-index

642732

23  
g-index

29  
all docs

29  
docs citations

29  
times ranked

421  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanisms of abrasive wear in the grinding of titanium (TC4) and nickel (K417) alloys. <i>Wear</i> , 2003, 255, 1421-1426.	3.1	121
2	Force ratio in the circular sawing of granites with a diamond segmented blade. <i>Journal of Materials Processing Technology</i> , 2003, 139, 281-285.	6.3	67
3	Analysis of grit interference mechanisms for the double scratching of monocrystalline silicon carbide by coupling the FEM and SPH. <i>International Journal of Machine Tools and Manufacture</i> , 2017, 120, 49-60.	13.4	54
4	SPH and FE coupled 3D simulation of monocrystal SiC scratching by single diamond grit. <i>International Journal of Refractory Metals and Hard Materials</i> , 2017, 64, 279-293.	3.8	48
5	Reactive sintering cBN-Ti-Al composites by spark plasma sintering. <i>Diamond and Related Materials</i> , 2016, 69, 138-143.	3.9	38
6	Study of Ti-coated diamond grits prepared by spark plasma coating. <i>Diamond and Related Materials</i> , 2017, 77, 72-78.	3.9	22
7	Coupling of double grains enforces the grinding process in vibration-assisted scratch: Insights from molecular dynamics. <i>Journal of Materials Processing Technology</i> , 2022, 304, 117551.	6.3	21
8	XPS and SEM characterization of wheel/workpiece interface in grinding of superalloy. <i>Surface and Interface Analysis</i> , 2002, 33, 343-350.	1.8	20
9	Fabrication of diamond-SiC-TiC composite by a spark plasma sintering-reactive synthesis method. <i>Journal of the European Ceramic Society</i> , 2015, 35, 69-76.	5.7	20
10	Inhibiting the oxidation of diamond during preparing the vitrified dental grinding tools by depositing a ZnO coating using direct urea precipitation method. <i>Materials Science and Engineering C</i> , 2015, 53, 23-28.	7.3	18
11	Preparation of the gradient Mo layers on diamond grits by spark plasma sintering and their effect on Fe-based matrix diamond composites. <i>Journal of Alloys and Compounds</i> , 2017, 695, 70-75.	5.5	18
12	Sawing performance of diamond with alloy coatings. <i>Surface and Coatings Technology</i> , 2005, 198, 459-463.	4.8	16
13	Comparison study of Fe-based matrix composites reinforced with Ti-coated and Mo-coated SiC particles. <i>Materials Chemistry and Physics</i> , 2018, 204, 154-162.	4.0	10
14	Preparing porous diamond composites via electrophoretic deposition of diamond particles on foam nickel substrate. <i>Materials Letters</i> , 2015, 138, 52-55.	2.6	9
15	Image mosaic coupled detection of grinding wheel topographies. <i>International Journal of Abrasive Technology</i> , 2013, 6, 147.	0.2	7
16	Spark plasma coating of tungsten-coated SiC particles. <i>Powder Technology</i> , 2017, 310, 282-286.	4.2	7
17	Investigation of the Anisotropy of 4H-SiC Materials in Nanoindentation and Scratch Experiments. <i>Materials</i> , 2022, 15, 2496.	2.9	7
18	Fabrication of bulk nano-SiC via in-situ reaction of core-shell structural SiC@C with Si using high pressure high temperature sintering method. <i>Materials Letters</i> , 2015, 144, 69-73.	2.6	6

#	ARTICLE	IF	CITATIONS
19	Avoiding the oxidation of SiC in SiC-borosilicate glass composites by adding zinc. <i>Corrosion Science</i> , 2015, 90, 413-419.	6.6	6
20	Investigation of Ti coatings on cubic boron nitride (cBN) grits by discharge treatment in spark plasma sintering system. <i>Advanced Powder Technology</i> , 2017, 28, 2281-2287.	4.1	6
21	Comparison of Vibration-Assisted Scratch Characteristics of SiC Polytypes (3C-, 4H- and 6H-SiC). <i>Micromachines</i> , 2022, 13, 640.	2.9	6
22	Adhesion at abrasive-Ti6Al4V interface with elevated grinding temperatures. <i>Journal of Materials Science Letters</i> , 2002, 21, 1293-1295.	0.5	5
23	Effect of Gradient TiCâ€“Ti5Si3â€“TiSi2 barrier layer on SiC in SiCâ€“borosilicate glass composites. <i>Surface and Coatings Technology</i> , 2015, 275, 349-356.	4.8	5
24	Mechanism of the scratching of monocrystalline silicon carbide with a diamond grit at different wear stages. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2020, , 095440542093979.	2.4	5
25	Investigation on diamond damaged process during a single-scratch of single crystal silicon carbide. <i>Wear</i> , 2021, 486-487, 204099.	3.1	4
26	Promoting oxidation-resistance property of SiC particles by adding Ti powder into SiC-borosilicate glass composites. <i>Materials Letters</i> , 2014, 134, 34-37.	2.6	2
27	Analysis of Cutting Forces in the Deep Sawing of Granite with a Diamond Saw-blade(Superabrasive/new) Tj ETQq1 1 0.784314 rgBT /C 21st Century LEM21, 2005, 2005.1, 205-208.	0.0	2
28	Vertical Spindle Grinding of Si and Granite with a New Abrasive Disk. <i>Advances in Mechanical Engineering</i> , 2013, 5, 768104.	1.6	0
29	Performance of coated diamonds in different metal matrices. <i>Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering</i> , 2007, 43, 139.	0.5	0