

# Fanghong Sun

## List of Publications by Year in descending order

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29  
papers

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citations

1307594

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Sandblasting pretreatment for deposition of diamond films on WC-Co hard metal substrates. <i>Diamond and Related Materials</i> , 2017, 73, 7-14.	3.9	54
2	Effect of Boron-Doped Diamond Interlayer on Cutting Performance of Diamond Coated Micro Drills for Graphite Machining. <i>Materials</i> , 2013, 6, 3128-3138.	2.9	21
3	Effect of pressure on the growth of boron and nitrogen doped HFCVD diamond films on WC-Co substrate. <i>Surface and Interface Analysis</i> , 2015, 47, 572-586.	1.8	13
4	SIMULATION AND EXPERIMENTAL STUDIES ON SUBSTRATE TEMPERATURE AND GAS DENSITY FIELD IN HFCVD DIAMOND FILMS GROWTH ON WC-Co DRILL TOOLS. <i>Surface Review and Letters</i> , 2013, 20, 1350020.	1.1	11
5	Numerical and experimental investigation of trapezoidal wire cold drawing through a series of shaped dies. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 76, 1383-1391.	3.0	10
6	Tribological Properties of MCD Films Synthesized Using Different Carbon Sources When Sliding Against Stainless Steel. <i>Tribology Letters</i> , 2016, 61, 1.	2.6	10
7	SIMULATION OPTIMIZATION OF THE HEAT TRANSFER CONDITIONS IN HFCVD DIAMOND FILM GROWTH INSIDE HOLES. <i>Surface Review and Letters</i> , 2013, 20, 1350031.	1.1	7
8	Corrosion Behavior of Plasma Transferred Arc Fe-based Coating Reinforced by Spherical Tungsten Carbide in Hydrochloric Acid Solutions. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2020, 35, 299-309.	1.0	7
9	CVD diamond coated drawing dies: a review. <i>Materials and Manufacturing Processes</i> , 2021, 36, 381-408.	4.7	7
10	Tribological behaviors of diamond films and their applications in metal drawing production in water-lubricating condition. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2016, 230, 656-666.	1.8	6
11	High-Speed Drawing of Al Alloy Wire by Diamond-Coated Drawing Die Under Environmentally Friendly Water-Based Emulsion Lubrication. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2018, 140, .	2.2	6
12	Selective Control of Oxidation Resistance of Diamond by Dopings. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 42302-42313.	8.0	6
13	Simulation of temperature distribution in hot filament chemical vapor deposition diamond films growth on SiC seals. <i>Journal of Shanghai Jiaotong University (Science)</i> , 2016, 21, 541-547.	0.9	5
14	FRICTION PROPERTIES OF POLISHED CVD DIAMOND FILMS SLIDING AGAINST DIFFERENT METALS. <i>Surface Review and Letters</i> , 2016, 23, 1550096.	1.1	5
15	Grinding characteristics of CVD diamond grits in single grit grinding of SiC ceramics. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 114, 2783-2797.	3.0	5
16	SIMULATION-BASED OPTIMAL DESIGN OF HFCVD EQUIPMENT ADOPTED FOR MASS PRODUCTION OF DIAMOND FILMS ON INNER-HOLE SURFACES. <i>Surface Review and Letters</i> , 2014, 21, 1450066.	1.1	4
17	THE EFFECT OF THE DOUBLE-DECK FILAMENT SETUP ON ENHANCING THE UNIFORMITY OF TEMPERATURE FIELD ON LONG-FLUTE CUTTING TOOLS. <i>Surface Review and Letters</i> , 2014, 21, 1450078.	1.1	4
18	THE ABRASION RESISTANCE AND ADHESION OF HFCVD BORON AND SILICON-DOPED DIAMOND FILMS ON WC-Co DRAWING DIES. <i>Surface Review and Letters</i> , 2017, 24, 1750090.	1.1	4

#	ARTICLE	IF	CITATIONS
19	THE EFFECTS OF BORON DOPING ON RESIDUAL STRESS OF HFCVD DIAMOND FILM FOR MEMS APPLICATIONS. Surface Review and Letters, 2018, 25, 1850039.	1.1	4
20	HFCVD Synthesis of Boron-Doped Microcrystalline Diamonds. Journal of Superhard Materials, 2019, 41, 143-148.	1.2	4
21	Wear behavior of diamond-coated drawing dies. Transactions of Tianjin University, 2011, 17, 259-263.	6.4	3
22	EFFECT OF SILICON DOPING IN CVD DIAMOND FILMS FROM MICROCRYSTALLINE TO NANOCRYSTALLINE ON WC-Co SUBSTRATES. Surface Review and Letters, 2013, 20, 1350055.	1.1	3
23	EFFECT OF POLISHING ON THE FRICTION BEHAVIORS AND CUTTING PERFORMANCE OF BORON-DOPED DIAMOND FILMS ON WC-Co INSERTS. Surface Review and Letters, 2014, 21, 1450037.	1.1	3
24	Fabrication and grinding performance of CVD diamond abrasive tool. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2023, 237, 192-202.	2.4	3
25	Atomic-Level Investigation of $\text{CH}_x\text{C}_2$ on $\text{SiC}(111)$ Surface for CVD Diamond Growth from RF. Journal of Nanomaterials, 2021, 2021, 1-6.	2.7	2
26	Tribological properties of TiN/diamond and TiAlN/diamond bilayer films sliding against carbon steel. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2018, 232, 1014-1024.	1.8	2
27	Erosion mechanism and cutting performance of MPCVD multilayer diamond thick film-Si <sub>3</sub> N <sub>4</sub> brazed inserts. International Journal of Advanced Manufacturing Technology, 2022, 118, 2437-2451.	3.0	2
28	THE EFFECT OF THE GAS INLET ON THE FLUID FIELD DURING FABRICATING HFCVD DIAMOND-COATED CUTTING TOOLS. Surface Review and Letters, 2014, 21, 1450068.	1.1	0
29	THE EFFECT OF THE GAS OUTLET ON THE GAS VELOCITY FIELD IN MASS-PRODUCTION OF HFCVD DIAMOND-COATED DRILLS. Surface Review and Letters, 2014, 21, 1450051.	1.1	0