

Xinchang Wang

List of Publications by Year in descending order

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14
papers

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citations

1478505

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1058476

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14
docs citations

14
times ranked

191
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of boron and silicon doping on improving the cutting performance of CVD diamond coated cutting tools in machining CFRP. International Journal of Refractory Metals and Hard Materials, 2013, 41, 285-292.	3.8	61
2	3D printed microfluidic devices for circulating tumor cells (CTCs) isolation. Biosensors and Bioelectronics, 2020, 150, 111900.	10.1	56
3	SIMULATION AND EXPERIMENTAL STUDIES ON SUBSTRATE TEMPERATURE AND GAS DENSITY FIELD IN HFCVD DIAMOND FILMS GROWTH ON WC-Co DRILL TOOLS. Surface Review and Letters, 2013, 20, 1350020.	1.1	11
4	Tribological Properties of MCD Films Synthesized Using Different Carbon Sources When Sliding Against Stainless Steel. Tribology Letters, 2016, 61, 1.	2.6	10
5	SIMULATION OPTIMIZATION OF THE HEAT TRANSFER CONDITIONS IN HFCVD DIAMOND FILM GROWTH INSIDE HOLES. Surface Review and Letters, 2013, 20, 1350031.	1.1	7
6	DFT calculations of energetic stability and geometry of O-terminated B- and N-doped diamond (111)-111 surfaces. Journal of Physics Condensed Matter, 2019, 31, 265002.	1.8	6
7	Selective Control of Oxidation Resistance of Diamond by Dopings. ACS Applied Materials & Interfaces, 2020, 12, 42302-42313.	8.0	6
8	Grinding characteristics of CVD diamond grits in single grit grinding of SiC ceramics. International Journal of Advanced Manufacturing Technology, 2021, 114, 2783-2797.	3.0	5
9	SIMULATION-BASED OPTIMAL DESIGN OF HFCVD EQUIPMENT ADOPTED FOR MASS PRODUCTION OF DIAMOND FILMS ON INNER-HOLE SURFACES. Surface Review and Letters, 2014, 21, 1450066.	1.1	4
10	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
11	Energetic stability and geometrical structure of variously terminated and N-doped diamond (111) surfaces – A theoretical DFT study. Materials Chemistry and Physics, 2021, 262, 124283.	4.0	4
12	Influences of Si dopant on geometry and energetic stability of terminated diamond (111)-111 surfaces. Diamond and Related Materials, 2020, 109, 108014.	3.9	3
13	Research on the mechanism of molten salt cleaning (MSC) for multiple contaminants in cylinder covers. Journal of Cleaner Production, 2021, 302, 126990.	9.3	2
14	Erosion mechanism and cutting performance of MPCVD multilayer diamond thick film-Si3N4 brazed inserts. International Journal of Advanced Manufacturing Technology, 2022, 118, 2437-2451.	3.0	2