

# Jiayun Deng

## List of Publications by Year in descending order

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Version: 2024-02-01

10  
papers

101  
citations

1477746

6  
h-index

1372195

10  
g-index

10  
all docs

10  
docs citations

10  
times ranked

34  
citing authors

#	ARTICLE	IF	CITATIONS
1	Prediction of the surface roughness and material removal rate in chemical mechanical polishing of single-crystal SiC via a back-propagation neural network. <i>Precision Engineering</i> , 2021, 72, 102-110.	1.8	19
2	Enhancement mechanism of chemical mechanical polishing for single-crystal 6H-SiC based on Electro-Fenton reaction. <i>Diamond and Related Materials</i> , 2021, 111, 108147.	1.8	18
3	The mechanism of Fenton reaction of hydrogen peroxide with single crystal 6H-SiC substrate. <i>Surfaces and Interfaces</i> , 2020, 21, 100730.	1.5	12
4	Basic research on chemical mechanical polishing of single-crystal SiC—Electro—Fenton: Reaction mechanism and modelling of hydroxyl radical generation using condition response modelling. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104954.	3.3	11
5	Optimisation of Lapping Process Parameters for Single-Crystal 4H—SiC Using Orthogonal Experiments and Grey Relational Analysis. <i>Micromachines</i> , 2021, 12, 910.	1.4	10
6	Scratch Behaviour of Bulk Silicon Nitride Ceramics. <i>Micromachines</i> , 2021, 12, 707.	1.4	8
7	Processing properties for the Si-face of the 4H-SiC substrates using the magnetically-controlled abrasive solidification orientation—solid-phase Fenton reaction for the fabrication of the lapping—polishing plate. <i>Diamond and Related Materials</i> , 2021, 120, 108652.	1.8	7
8	Preparation and polishing properties of water-based magnetorheological chemical finishing fluid with high catalytic activity for single-crystal SiC. <i>Journal of Intelligent Material Systems and Structures</i> , 2020, , 1045389X2097550.	1.4	6
9	Preparation and processing properties of magnetically controlled abrasive solidification orientation—solid-phase Fenton reaction lapping-polishing plate for single-crystal 4H-SiC. <i>Surfaces and Interfaces</i> , 2022, 29, 101646.	1.5	5
10	A study of the magneto-controlled mechanical properties and polishing performance for single-crystal SiC used as a magnetorheological-elastomer polishing pad. <i>Smart Materials and Structures</i> , 2022, 31, 035021.	1.8	5