

Mukarram Zaman Khan

List of Publications by Year in descending order

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12
papers

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1163117

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203
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultra-fast growth of cuprate superconducting films: Dual-phase liquid assisted epitaxy and strong flux pinning. <i>Materials Today Physics</i> , 2021, 18, 100400.	6.0	56
2	High Critical Current Density and Enhanced Pinning in Superconducting Films of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Nanocomposites with Embedded BaZrO_3 , BaHfO_3 , BaTiO_3 , and SrZrO_3 Nanocrystals. <i>ACS Applied Nano Materials</i> , 2020, 3, 5542-5553.	5.0	28
3	Enhanced flux pinning isotropy by tuned nanosized defect network in superconducting $\text{YBa}_2\text{Cu}_3\text{O}_{6+x}$ films. <i>Scientific Reports</i> , 2019, 9, 15425.	3.3	24
4	Role of Columnar Defect Size in Angular Dependent Flux Pinning Properties of YBCO Thin Films. <i>IEEE Transactions on Applied Superconductivity</i> , 2019, 29, 1-5.	1.7	22
5	Insight into the Interfacial Nucleation and Competitive Growth of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Films as High-Performance Coated Conductors by a Fluorine-Free Metal-Organic Decomposition Route. <i>Crystal Growth and Design</i> , 2019, 19, 6752-6762.	3.0	22
6	Self-assembled nanorods in YBCO matrix – a computational study of their effects on critical current anisotropy. <i>Scientific Reports</i> , 2020, 10, 3169.	3.3	15
7	Angular and field dependent flux pinning in artificially doped YBCO films on IBAD-MgO based template. <i>Physica C: Superconductivity and Its Applications</i> , 2018, 555, 15-23.	1.2	12
8	Control of the nanosized defect network in superconducting thin films by target grain size. <i>Scientific Reports</i> , 2021, 11, 6010.	3.3	9
9	Lattice defect induced nanorod growth in YBCO films deposited on an advanced IBAD-MgO template. <i>Superconductor Science and Technology</i> , 2020, 33, 075008.	3.5	7
10	Multilayering BZO nanocolumns with different defect densities for YBCO high field applications. <i>New Journal of Physics</i> , 2021, 23, 113031.	2.9	7
11	Improving the Flux Pinning With Artificial BCO Nanodots and Correlated Dislocations in YBCO Films Grown on IBAD-MgO Based Template. <i>IEEE Transactions on Applied Superconductivity</i> , 2019, 29, 1-5.	1.7	2
12	Strongly Enhanced Growth of High-Temperature Superconducting Films on an Advanced Metallic Template. <i>Crystal Growth and Design</i> , 2022, 22, 2097-2104.	3.0	2