Mahipal Ranot

List of Publications by Year
in descending order

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20 papers	134 citations	1307594 7 h-index	1281871 11 g-index
20 all docs	20 docs citations	20 times ranked	107 citing authors

#	Article	IF	Citations
1	TbxEr1â^'xNi5compounds: An ideal model system for competing Ising-XYanisotropy energies. Physical Review B, 2009, 79, .	3.2	21
2	A simple method for the enhancement ofJ_cin MgB₂thick films with an amorphous SiC impurity layer. Superconductor Science and Technology, 2009, 22, 075010.	3.5	17
3	MgB2 coated superconducting tapes with high critical current densities fabricated by hybrid physicalâ€"chemical vapor deposition. Current Applied Physics, 2012, 12, 353-363.	2.4	14
4	Solution-processed nanometers thick amorphous carbon-coated boron as an efficient precursor for high-field performance of MgB2. Journal of Alloys and Compounds, 2017, 724, 507-514.	5.5	14
5	Possible Origin of Double-Peak Behavior of the Pinning-Force Density in Thick MgB2 Films with Columnar Structures. Journal of the Korean Physical Society, 2008, 53, 727-731.	0.7	14
6	Fabrication of superconducting MgB₂thin films on textured Cu(100) tape by hybrid physicalâ€"chemical vapor deposition. Superconductor Science and Technology, 2009, 22, 045006.	3.5	13
7	MgB2 coated conductors directly grown on flexible metallic Hastelloy tapes by hybrid physicalâ€"chemical vapor deposition. Current Applied Physics, 2013, 13, 1808-1812.	2.4	9
8	Effect of SiCâ€Impurity Layer and Growth Temperature on MgB₂ Superconducting Tapes Fabricated by HPCVD. Chemical Vapor Deposition, 2012, 18, 36-40.	1.3	5
9	Transport properties of MgB2 films grown on Hastelloy tape: Substrate temperature effect. Journal of the Korean Physical Society, 2013, 62, 284-287.	0.7	4
10	Fabrication details of Ba1-xKxFe2As2films by pulsed laser deposition technique. Progress in Superconductivity and Cryogenics (PSAC), 2014, 16, 4-6.	0.3	4
11	A review on the understanding and fabrication advancement of MgB₂thin and thick films by HPCVD. Progress in Superconductivity and Cryogenics (PSAC), 2015, 17, 1-17.	0.3	4
12	Effect of Different Thickness Crystalline SiC-Buffer Layers on Superconducting Properties and Flux Pinning Mechanism of <inline-formula> <tex-math notation="TeX">${m MgB}_{2}$ </tex-math></inline-formula> Films. IEEE Transactions on Magnetics, 2014, 50, 1-5.	2.1	3
13	Superconducting MgB₂flowers: growth mechanism and their superconducting properties. Superconductor Science and Technology, 2016, 29, 045015.	3.5	3
14	Addition effects of nanoscale NiO on microstructure and superconducting properties of MgB₂. Progress in Superconductivity and Cryogenics (PSAC), 2016, 18, 37-40.	0.3	3
15	Influence of Ag- or Cu-Impurity Layers on the Microstructure and Flux-Pinning Properties of MgB2 Thick Films. Journal of the Korean Physical Society, 2009, 54, 2343-2348.	0.7	2
16	Significant enhancement of critical current density by effective carbon-doping in MgB₂thin films. Progress in Superconductivity and Cryogenics (PSAC), 2013, 15, 12-15.	0.3	2
17	Fabrication of MgB$_2$ Thin Films at Various Temperatures by Using Laser-assisted Chemical Vapor Deposition. Journal of the Korean Physical Society, 2009, 55, 600-603.	0.7	1
18	Single-Crystal like MgB2thin films grown on c-cut sapphire substrates. Progress in Superconductivity and Cryogenics (PSAC), 2014, 16, 7-9.	0.3	1

#	Article	IF	Citations
19	Thickness dependence of grain growth orientation in MgB₂films fabricated by hybrid physical-chemical vapor deposition. Progress in Superconductivity and Cryogenics (PSAC), 2013, 15, 9-11.	0.3	0
20	A safe and cost-effective PMMA carbon source for MgB2. Progress in Superconductivity and Cryogenics (PSAC), 2017, 19, 47-50.	0.3	0