

Ruben HÃ¼hne

List of Publications by Year in descending order

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184
all docs

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docs citations

184
times ranked

3374
citing authors

#	ARTICLE	IF	CITATIONS
1	Electocaloric temperature changes in epitaxial Ba1 ^x Sr _x TiO ₃ films. Journal of Alloys and Compounds, 2022, 891, 162041.	5.5	7
2	Magnetic granularity in PLD-grown Fe(Se,Te) films on simple RABiTS templates. Superconductor Science and Technology, 2022, 35, 074001.	3.5	6
3	Structural and Electric Properties of Epitaxial Na _{0.5} Bi _{0.5} TiO ₃ -Based Thin Films. Coatings, 2021, 11, 651.	2.6	3
4	Dynamic Characteristics of a Superconducting Magnetic Bearing Under 1/4m Displacements. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.7	2
5	Comparative study of Fe(Se,Te) thin films on flexible coated conductor templates and single-crystal substrates. Superconductor Science and Technology, 2021, 34, 115013.	3.5	6
6	Optical and hidden transport properties of BaFe _{1.91} Ni _{0.09} As ₂ film. Journal of Physics Condensed Matter, 2021, 33, 045601.	1.8	7
7	State with spontaneously broken time-reversal symmetry above the superconducting phase transition. Nature Physics, 2021, 17, 1254-1259.	16.7	41
8	Dependency of hysteretic loss on speed and tilt in a rotating superconducting magnetic bearing. Superconductor Science and Technology, 2021, 34, 125004.	3.5	1
9	Influence of the magnet aspect ratio on the dynamic stiffness of a rotating superconducting magnetic bearing. Journal Physics D: Applied Physics, 2020, 53, 035002.	2.8	10
10	In situ measurement of the dynamic yarn path in a turbo ring spinning process based on the superconducting magnetic bearing twisting system. Textile Reseach Journal, 2020, 90, 951-968.	2.2	11
11	Towards a reliable bridge joint between REBCO coated conductors. Journal of Physics: Conference Series, 2020, 1559, 012033.	0.4	2
12	Superconductivity with broken time-reversal symmetry inside a superconducting s-wave state. Nature Physics, 2020, 16, 789-794.	16.7	59
13	Analysis of Electronic Properties from Magnetotransport Measurements on Ba(Fe _{1-x} Ni _x) ₂ As ₂ Thin Films. Materials, 2020, 13, 630.	2.9	0
14	THz electrodynamics of BaFe _{1.91} Ni _{0.09} As ₂ film analyzed in the framework of multiband Eliashberg theory. Superconductor Science and Technology, 2020, 33, 075005.	3.5	4
15	Analysis of the high-speed rotary motion of a superconducting magnetic bearing during ring spinning. Engineering Research Express, 2020, 2, 035039.	1.6	3
16	Yanson point-contact spectroscopy of Weyl semimetal WTe ₂ . 2D Materials, 2019, 6, 045012.	4.4	4
17	Fe-based superconducting thin filmsâ€™ preparation and tuning of superconducting properties. Superconductor Science and Technology, 2019, 32, 093001.	3.5	42
18	Manifestation of granularity in the transport current of coated conductors. Superconductor Science and Technology, 2019, 32, 055004.	3.5	4

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19	Magnetically induced anisotropy of flux penetration into strong-pinning superconductor/ferromagnet bilayers. <i>New Journal of Physics</i> , 2019, 21, 113019.	2.9	2
20	Direct study of structural phase transformation in single crystalline bulk and thin film BaFe ₂ As ₂ . <i>Micron</i> , 2019, 119, 1-7.	2.2	2
21	Influence of artificial pinning centers on structural and superconducting properties of thick YBCO films on ABAD-YSZ templates. <i>Superconductor Science and Technology</i> , 2018, 31, 044007.	3.5	18
22	Simulation of Force Generation Above Magnetic Tracks for Superconducting Levitation Systems. <i>IEEE Transactions on Applied Superconductivity</i> , 2018, 28, 1-5.	1.7	7
23	Thick Secondary Phase Pinning-Enhanced YBCO Films on Technical Templates. <i>IEEE Transactions on Applied Superconductivity</i> , 2018, 28, 1-5.	1.7	7
24	BaZr _x Ti _{1-x} O ₃ Epitaxial Thin Films for Electrocaloric Investigations. <i>Energy Technology</i> , 2018, 6, 1526-1534.	3.8	6
25	Pushing the limits of applicability of REBCO coated conductor films through fine chemical tuning and nanoengineering of inclusions. <i>Nanoscale</i> , 2018, 10, 8187-8195.	5.6	29
26	Magnetotransport properties of Ba(Fe _x Ni _x) ₂ As ₂ thin films grown by PLD method. <i>Materials Research Express</i> , 2018, 5, 126001.	1.6	5
27	Levitation force measurement on a switchable track for superconducting levitation systems. <i>Superconductor Science and Technology</i> , 2018, 31, 125007.	3.5	4
28	Universal scaling behavior of the upper critical field in strained FeSe _{0.7} Te _{0.3} thin films. <i>New Journal of Physics</i> , 2018, 20, 093012.	2.9	13
29	Probing the Martensitic Microstructure of Magnetocaloric Heusler Films by Synchrotron Diffraction. <i>Energy Technology</i> , 2018, 6, 1453-1462.	3.8	2
30	Surface superconductivity in the Weyl semimetal MoTe ₂ detected by point contact spectroscopy. <i>2D Materials</i> , 2018, 5, 045014.	4.4	26
31	Thickness and temperature dependent thermoelectric properties of Bi ₈₇ Sb ₁₃ nanofilms measured with a novel measurement platform. <i>Semiconductor Science and Technology</i> , 2018, 33, 085014.	2.0	15
32	Mathematical Modeling of Dynamic Yarn Path Considering the Balloon Control Ring and Yarn Elasticity in the Ring Spinning Process Based on the Superconducting Bearing Twisting Element. <i>Fibres and Textiles in Eastern Europe</i> , 2018, 26, 32-40.	0.5	9
33	Influence of Substrate Tilt Angle on the Incorporation of BaHfO ₃ in Thick YBa ₂ Cu ₃ O _{7-δ} Films. <i>IEEE Transactions on Applied Superconductivity</i> , 2017, 27, 1-4.	1.7	7
34	Design and Validation of Switchable Tracks for Superconducting Levitation Systems. <i>IEEE Transactions on Applied Superconductivity</i> , 2017, 27, 1-5.	1.7	10
35	Superconducting properties of Ba(Fe _x Ni _x) ₂ As ₂ thin films in high magnetic fields. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	17
36	Tilted BaHfO ₃ nanorod artificial pinning centres in REBCO films on inclined substrate deposited-MgO coated conductor templates. <i>Superconductor Science and Technology</i> , 2017, 30, 055002.	3.5	15

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37	Effect of substrate miscut on the microstructure in epitaxial Pb(Mg 1/3 Nb 2/3)O 3 -PbTiO 3 thin films. Materials Characterization, 2017, 129, 234-241.	4.4	6
38	Superconductivity in Ni-Doped BaFeAs Thin Films Prepared From Single-Crystal Targets Using PLD. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-4.	1.7	9
39	Tailoring Microstructure and Superconducting Properties in Thick BaHfO3 and Ba2 Y(Nb/Ta)O6 Doped YBCO Films on Technical Templates. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-7.	1.7	12
40	Purely antiferromagnetic magnetoelectric random access memory. Nature Communications, 2017, 8, 13985.	12.8	217
41	Unveiling the Nucleation and Coarsening Mechanisms of Solution-Derived Self-Assembled Epitaxial Ce _{0.9} Gd _{0.1} O ₂ Nanostructures. Crystal Growth and Design, 2017, 17, 504-516.	3.0	17
42	Planar current anisotropy and field dependence of κ in coated conductors assessed by scanning Hall probe microscopy. Superconductor Science and Technology, 2017, 30, 024004.	3.5	10
43	The influence of the in-plane lattice constant on the superconducting transition temperature of FeSe _{0.7} Te _{0.3} thin films. AIP Advances, 2017, 7, 065015.	1.3	13
44	Superconducting gaps in FeSe studied by soft point-contact Andreev reflection spectroscopy. Physical Review B, 2017, 96, .	3.2	11
45	Controlling particle properties in $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ nanocomposites by combining PLD with an inert gas condensation system. Superconductor Science and Technology, 2017, 30, 104007.	3.5	1
46	Magnetic granularity in pulsed laser deposited YBCO films on technical templates at 5 K. Superconductor Science and Technology, 2017, 30, 104003.	3.5	7
47	Experimental signatures of the mixed axial gravitational anomaly in the Weyl semimetal NbP. Nature, 2017, 547, 324-327.	27.8	222
48	Chiral magnetoresistance in the Weyl semimetal NbP. Scientific Reports, 2017, 7, 43394.	3.3	71
49	Reversible tuning of magnetocaloric Ni-Mn-Ga-Co films on ferroelectric PMN-PT substrates. Scientific Reports, 2017, 7, 14462.	3.3	7
50	Optimizing Nanocomposites through Nanocrystal Surface Chemistry: Superconducting YBa ₂ Cu ₃ O ₇ Thin Films via Low-Fluorine Metal Organic Deposition and Preformed Metal Oxide Nanocrystals. Chemistry of Materials, 2017, 29, 6104-6113.	6.7	45
51	Selective mass enhancement close to the quantum critical point in BaFe ₂ (As _{1-x} P _x) ₂ . Scientific Reports, 2017, 7, 4589.	3.3	8
52	Deposition and properties of Fe(Se,Te) thin films on vicinal CaF ₂ substrates. Superconductor Science and Technology, 2017, 30, 115008.	3.5	8
53	Structural and ferroelectric properties of epitaxial BaZr _x Ti _{1-x} O ₃ thin films. Journal Physics D: Applied Physics, 2016, 49, 495303.	2.8	6
54	Influence of the polarization anisotropy on the electrocaloric effect in epitaxial PMN-PT thin films. Journal of Applied Physics, 2016, 120, .	2.5	9

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55	Anisotropy and Enhanced In-Field Performance of Thick BaHfO_{3-x} -Doped $\text{Ba}_{1-x}\text{Cu}_{2-x}\text{O}_{7-\delta}$ Films on ABAD-YSZ Templates. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-4.	1.7	13
56	Upconversion photoluminescence of epitaxial $\text{Yb}^{3+}/\text{Er}^{3+}$ codoped ferroelectric $\text{Pb}(\text{Zr,Ti})\text{O}_3$ films on silicon substrates. Thin Solid Films, 2016, 607, 32-35.	1.8	1
57	Orientation symmetry breaking in self-assembled $\text{Ce}_{1-x}\text{Gd}_x\text{O}_{2-y}$ nanowires derived from chemical solutions. RSC Advances, 2016, 6, 97226-97236.	3.6	8
58	Monolithically Integrated Microelectromechanical Systems for On-Chip Strain Engineering of Quantum Dots. Nano Letters, 2016, 16, 5785-5791.	9.1	26
59	Large pinning forces and matching effects in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ thin films with $\text{Ba}_2\text{Y}(\text{Nb/Ta})\text{O}_6$ nano-precipitates. Scientific Reports, 2016, 6, 21188.	3.3	73
60	Hall-plot of the phase diagram for $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$. Scientific Reports, 2016, 6, 28390.	3.3	30
61	Structural and ferroelectric properties of 0.9PMN-0.1PT thin films. Ferroelectrics, 2016, 499, 57-63.	0.6	6
62	Thin film deposition based on microacoustic sol atomization (MASA). Journal of Sol-Gel Science and Technology, 2016, 78, 26-33.	2.4	10
63	$\text{Ba}_2\text{Y}(\text{Nb/Ta})\text{O}_6$ Doped YBCO Films on Biaxially Textured $\text{Ni}_{5\text{at.}\%}\text{W}$ Substrates. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.7	9
64	Local Orientation Variations in YBCO Films on Technical Substrates - A Combined SEM and EBSD Study. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.7	10
65	Surface Acoustic Waves A New Thin-Film Deposition Approach for Coated Conductors. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-4.	1.7	3
66	Pinning Centers in ISD-MgO Coated Conductors via EB-PVD. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.7	5
67	Anisotropy of iron-platinum-arsenide $\text{Ca}_{10}(\text{Pt}_n\text{As}_8)(\text{Fe}_2\text{Pt}_x\text{As}_2)_5$ single crystals. Applied Physics Letters, 2015, 107, .	3.3	20
68	High field superconducting properties of $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ thin films. Scientific Reports, 2015, 5, 17363.	3.3	49
69	Interface control by homoepitaxial growth in pulsed laser deposited iron chalcogenide thin films. Scientific Reports, 2015, 5, 16334.	3.3	23
70	Thick High $\text{Ba}_{1-x}\text{Cu}_2\text{O}_{7-\delta}$ YBCO Films on ABAD-YSZ Templates. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4.	1.7	13
71	Tuning structure in epitaxial $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ PbTiO_3 thin films by using miscut substrates. Thin Solid Films, 2015, 589, 792-797.	1.8	7
72	Strain Dependence of Critical Fields Studied on Piezoelectric Substrates. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4.	1.7	3

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73	Unusually high critical current of clean P-doped BaFe ₂ As ₂ single crystalline thin film. Applied Physics Letters, 2015, 106, 072602.	3.3	31
74	Influence of substrate type on transport properties of superconducting FeSe _{0.5} Te _{0.5} thin films. Superconductor Science and Technology, 2015, 28, 065005.	3.5	23
75	BaHfO_3 -Doped Thick $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ Films on Highly Alloyed Textured Ni-W Tapes. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4.	1.7	24
76	BaHfO ₃ artificial pinning centres in TFA-MOD-derived YBCO and GdBCO thin films. Superconductor Science and Technology, 2015, 28, 114002.	3.5	58
77	Epitaxial Ni-Mn-Ga-Co thin films on PMN-PT substrates for multicaloric applications. Journal of Applied Physics, 2015, 118, .	2.5	24
78	Chemical stability of YBiO ₃ buffer layers for implementation in YBa ₂ Cu ₃ O _{7-δ} coated conductors. Acta Materialia, 2015, 100, 224-231.	7.9	0
79	The effect of 45 \AA grain boundaries and associated Fe particles on J _c and resistivity in Ba(Fe _{0.9} Co _{0.1}) ₂ As ₂ thin films. , 2014, , .		9
80	Pulsed laser deposition of thick BaHfO ₃ -doped YBa ₂ Cu ₃ O _{7-δ} films on highly alloyed textured Ni-W tapes. Journal of Physics: Conference Series, 2014, 507, 022032.	0.4	5
81	Influence of the deposition geometry on structural and ferroelectric properties of epitaxial PMN-PT films. , 2014, , .		2
82	Ink-jet printing of SrTiO ₃ buffer layers from aqueous solutions. Superconductor Science and Technology, 2014, 27, 095007.	3.5	8
83	Investigation of the strain-sensitive superconducting transition of BaFe _{1.8} Co _{0.2} As ₂ thin films utilizing piezoelectric substrates. Journal of Physics: Conference Series, 2014, 507, 012049.	0.4	1
84	Controlling the near-surface superfluid density in underdoped YBa ₂ Cu ₃ O _{6+x} by photo-illumination. Scientific Reports, 2014, 4, 6250.	3.3	11
85	Highly alloyed Ni \AA W substrates for low AC loss applications. Superconductor Science and Technology, 2013, 26, 085024.	3.5	38
86	Strain induced superconductivity in the parent compound BaFe ₂ As ₂ . Nature Communications, 2013, 4, 2877.	12.8	59
87	Dynamic variation of biaxial strain in optimally doped and underdoped YBa ₂ Cu ₃ O _{7-δ} thin films. Journal of Applied Physics, 2013, 113, 123907.	2.5	13
88	Feasibility study of the synthesis of YBiO ₃ thin films by aqueous chemical solution deposition as an alternative for CeO ₂ buffer layers in coated conductors. Journal of Materials Chemistry A, 2013, 1, 3613.	10.3	16
89	Epitaxial growth of Gd ₂ Zr ₂ O ₇ /Y ₂ O ₃ buffer layers for YBa ₂ Cu ₃ O _{7-δ} coated conductors. Physica C: Superconductivity and Its Applications, 2013, 485, 15-19.	1.2	10
90	Fe/Ba(Fe _{1-x} Co _x) ₂ As ₂ multilayers and quasi-multilayers with T _c =29K. Physica C: Superconductivity and Its Applications, 2013, 494, 185-188.	1.2	11

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91	Versatile fluoride substrates for Fe-based superconducting thin films. Applied Physics Letters, 2013, 102, .	3.3	45
92	Intrinsic pinning and the critical current scaling of clean epitaxial Fe(Se,Te) thin films. Physical Review B, 2013, 87, .	3.2	51
93	The influence of the buffer layer architecture on transport properties for BaFe1.8Co0.2As2 films on technical substrates. Applied Physics Letters, 2012, 100, .	3.3	27
94	Architecture, microstructure and c -anisotropy of highly oriented biaxially textured Co-doped BaFe ₂ As ₂ on Fe/IBAD-MgO-buffered metal tapes. Superconductor Science and Technology, 2012, 25, 084019.	3.5	48
95	Aqueous CSD approach for the growth of novel, lattice-tuned La _x Ce _{1-x} O ₇ epitaxial layers. Journal of Materials Chemistry, 2012, 22, 8476.	6.7	32
96	Combinatorial Synthesis of (YxGd1-x)Ba2Cu3Ox Superconducting Thin Films. Physics Procedia, 2012, 36, 514-519.	1.2	0
97	Effects of Varied Cleaning Methods on Ni-5% W Substrate for Dip-Coating of Water-based Buffer Layers: An X-ray Photoelectron Spectroscopy Study. Nanomaterials, 2012, 2, 251-267.	4.1	2
98	High- J_c YBCO Coated Conductors Based on IBAD-TiN Using Stainless Steel Substrates. IEEE Transactions on Applied Superconductivity, 2011, 21, 2920-2923.	1.7	5
99	Epitaxial Growth of Superconducting Ba(Fe _{1-x} Co _x) ₂ As ₂ Thin Films on Technical Ion Beam Assisted Deposition MgO Substrates. Applied Physics Express, 2011, 4, 013103.	2.4	79
100	Thick lanthanum zirconate buffer layers from water-based precursor solutions on Ni-5%W substrates. Journal of Solid State Chemistry, 2011, 184, 2887-2896.	2.9	14
101	Coated conductor architectures based on IBAD-TiN for high- J_c YBCO films. Physica C: Superconductivity and Its Applications, 2011, 471, 966-969.	1.2	5
102	Epitaxial growth of Ce ₂ Y ₂ O ₇ buffer layers for YBa ₂ Cu ₃ O _{7-δ} coated conductors using reel-to-reel DC reactive sputtering. Physica C: Superconductivity and Its Applications, 2011, 471, 471-475.	1.2	9
103	A study of the parameters influencing the microstructure of thick La ₂ Zr ₂ O ₇ films. Journal of Crystal Growth, 2011, 325, 68-75.	1.5	20
104	Nanocolumns in YBa ₂ Cu ₃ O _{7-δ} BaZrO ₃ quasi-multilayers: formation and influence on superconducting properties. Superconductor Science and Technology, 2011, 24, 055018.	3.5	35
105	Thickness dependence of structural and transport properties of Co-doped BaFe ₂ As ₂ on Fe buffered MgO substrates. Superconductor Science and Technology, 2011, 24, 125009.	3.5	21
106	T_c Optimisation of GdBa ₂ Cu ₃ O _{7-δ} thin films grown by pulsed laser deposition. Journal of Physics: Conference Series, 2010, 234, 012035.	0.4	3
107	Preparation of epitaxial La _{2-x} Sr _x CuO ₄ thin films for dynamic investigations of epitaxial strain. Journal of Physics: Conference Series, 2010, 234, 012045.	0.4	4
108	Deposition of Gd ₂ Zr ₂ O ₇ single buffer layers with different thickness for YBa ₂ Cu ₃ O _{7-δ} coated conductors on metallic substrates. Physica C: Superconductivity and Its Applications, 2010, 470, 543-546.	1.2	15

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109	Growth of strained $\text{La}_{1-x}\text{Sr}_x\text{CoO}_3$ films and multilayers using layer-by-layer growth. <i>Thin Solid Films</i> , 2010, 519, 69-73.	1.8	7
110	Irreversibility field up to 42 T of $\text{GdBa}_2\text{Cu}_3\text{O}_{7-\delta}$ thin films grown by PLD and its dependence on deposition parameters. <i>Superconductor Science and Technology</i> , 2010, 23, 105017.	3.5	10
111	Application of textured IBAD-TiN buffer layers in coated conductor architectures. <i>Superconductor Science and Technology</i> , 2010, 23, 014010.	3.5	13
112	Scaling behavior of the critical current in clean epitaxial $\text{Ba}_{1-x}\text{K}_x\text{BiO}_3$. <i>Physical Review B</i> , 2010, 81, .	3.2	72
113	Application of textured highly alloyed Ni_wW tapes for preparing coated conductor architectures. <i>Superconductor Science and Technology</i> , 2010, 23, 034015.	3.5	19
114	Ion-beam-assisted deposition of textured NbN thin films. <i>Superconductor Science and Technology</i> , 2010, 23, 025010.	3.5	11
115	Reversible shift in the superconducting transition for $\text{La}_{1.85}\text{Sr}_{0.15}\text{CuO}_4$ and $\text{BaFe}_{1.8}\text{Co}_{0.2}\text{As}_2$ using piezoelectric substrates. <i>New Journal of Physics</i> , 2010, 12, 103030.	2.9	29
116	Coherent interfacial bonding on the FeAs tetrahedron in $\text{Fe}/\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ bilayers. <i>Applied Physics Letters</i> , 2010, 97, 022506.	3.3	54
117	Influence of Fe buffer thickness on the crystalline quality and the transport properties of $\text{Fe}/\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ bilayers. <i>Applied Physics Letters</i> , 2010, 97, 172507.	3.3	51
118	Biaxially textured $\text{LuNi}_2\text{B}_2\text{C}$ thin films on MgO single crystals. <i>Journal of Alloys and Compounds</i> , 2010, 507, 345-349.	5.5	0
119	Textured $\text{Ni}_{9.0}\text{W}$ substrate tapes for YBCO-coated conductors. <i>Superconductor Science and Technology</i> , 2010, 23, 085012.	3.5	35
120	Domain structure of epitaxial Co films with perpendicular anisotropy. <i>Physical Review B</i> , 2009, 79, .	3.2	58
121	Structural and pinning properties of $\text{Y}_2\text{Ba}_4\text{CuMO}_y$ ($M = \text{Nb}, \text{Zr}$)/ $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ quasi-multilayers fabricated by off-axis pulsed laser deposition. <i>Superconductor Science and Technology</i> , 2009, 22, 105004.	3.5	16
122	CRYSTALLIZATION AND MAGNETO-TRANSPORT CHARACTERISTICS IN MOD $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ FILMS. <i>International Journal of Modern Physics B</i> , 2009, 23, 3470-3475.	2.0	1
123	Tuning functional properties by plastic deformation. <i>New Journal of Physics</i> , 2009, 11, 083013.	2.9	5
124	Thickness effect of $\text{La}_2\text{Zr}_2\text{O}_7$ single buffers on metallic substrates using pulsed laser deposition for $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ -coated conductors. <i>Superconductor Science and Technology</i> , 2009, 22, 095005.	3.5	18
125	Epitaxial growth of $\text{La}_2\text{Zr}_2\text{O}_7$ buffer layers for $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ coated conductors on metallic substrates using pulsed laser deposition. <i>Physica C: Superconductivity and Its Applications</i> , 2009, 469, 288-292.	1.2	12
126	Thin $\text{La}_2\text{Zr}_2\text{O}_7$ films made from a water-based solution. <i>Journal of Solid State Chemistry</i> , 2009, 182, 37-42.	2.9	34

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127	Strong Tc dependence for strained epitaxial Ba(Fe _{1-x} Cox) ₂ As ₂ thin films. Applied Physics Letters, 2009, 95, .	3.3	106
128	All chemical YBa ₂ Cu ₃ O ₇ superconducting multilayers: Critical role of CeO ₂ cap layer flatness. Journal of Materials Research, 2009, 24, 1446-1455.	2.6	68
129	A Water-Based Sol-Gel Precursor for Deposition of Thin $\text{La}_{2}\text{Zr}_{2}\text{O}_{7}$ Layers on Ni-W Substrates. IEEE Transactions on Applied Superconductivity, 2009, 19, 3467-3470.	1.7	2
130	Preparation of Conductive Buffer Architectures Based on IBAD-TiN. IEEE Transactions on Applied Superconductivity, 2009, 19, 3447-3450.	1.7	12
131	Epitaxial c-axis oriented LuNi ₂ B ₂ C thin films on MgO(110). Journal of Physics: Conference Series, 2009, 150, 052185.	0.4	1
132	Optimisation of single La ₂ Zr ₂ O ₇ buffer layers for YBCO coated conductors prepared by chemical solution deposition. Journal of Crystal Growth, 2008, 310, 4295-4300.	1.5	23
133	Growth of thick chemical solution derived pyrochlore La ₂ Zr ₂ O ₇ buffer layers for YBa ₂ Cu ₃ O _{7-x} coated conductors. Thin Solid Films, 2008, 516, 2099-2108.	1.8	47
134	Nanostructural control in solution-derived epitaxial Ce _{1-x} Gd _x O ₂ films. Nanotechnology, 2008, 19, 395601.	2.6	40
135	Textured Ni ^{7.5} at.% W substrate tapes for YBCO-coated conductors. Superconductor Science and Technology, 2008, 21, 105012.	3.5	33
136	Growth and anisotropy of La(O, F)FeAs thin films deposited by pulsed laser deposition. Superconductor Science and Technology, 2008, 21, 122001.	3.5	82
137	Dynamic investigations on the influence of epitaxial strain on the superconducting transition in YBa ₂ Cu ₃ O _{7-x} . Superconductor Science and Technology, 2008, 21, 075020.	3.5	23
138	Metallic seed layers for ion-beam assisted pulsed laser deposition of highly textured transition metal nitride films. Journal Physics D: Applied Physics, 2008, 41, 245404.	2.8	16
139	Single and binary rare earth REBa ₂ Cu ₃ O _{7-δ} films prepared by chemical solution deposition. Journal of Physics: Conference Series, 2008, 97, 012245.	0.4	3
140	Ion-beam assisted pulsed laser deposition of textured transition-metal nitride films. Materials Research Society Symposia Proceedings, 2008, 1150, 1.	0.1	0
141	Angular-dependent vortex pinning mechanism in YBa ₂ Cu ₃ O _{7-x} /YSZ quasi-multilayer. Journal of Applied Physics, 2008, 104, 033920.	2.5	13
142	Development of conducting buffer architectures using cube textured IBAD-TiN layers. Materials Research Society Symposia Proceedings, 2008, 1150, 1.	0.1	0
143	Microstructure and the grain boundaries evolution in sequential epitaxial buffer layers on RABiTS-Substrates. Journal of Physics: Conference Series, 2008, 97, 012042.	0.4	1
144	Grain growth and biaxial texture of chemically deposited La ₂ Zr ₂ O ₇ buffer layers for YBCO-coated conductors. Journal of Physics: Conference Series, 2008, 97, 012108.	0.4	7

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145	Aspects of static and dynamic magnetic anisotropy in Ni ₈₁ Fe ₁₉ NiO films. Physical Review B, 2007, 75, .	3.2	55
146	Enhanced flux pinning in YBa ₂ Cu ₃ O ₇ layers by the formation of nanosized BaHfO ₃ precipitates using the chemical deposition method. Applied Physics Letters, 2007, 90, 102505.	3.3	104
147	Elongated grains in textured substrate tapes and their effect on transport currents in superconductor layers. Applied Physics Letters, 2007, 90, 012510.	3.3	22
148	Improved Critical Current Densities of Coated Conductors by High Aspect Ratio Grains. IEEE Transactions on Applied Superconductivity, 2007, 17, 3239-3242.	1.7	2
149	Artificial Nano-Scale Precipitates for Flux Pinning in YBa ₂ Cu ₃ O _{7-δ} Thin Films and Coated Conductors. Materials Science Forum, 2007, 546-549, 1865-1870.	0.3	1
150	Improved Pinning in YBCO Based Quasi-Multilayers Prepared by On- and Off-Axis Pulsed Laser Deposition. IEEE Transactions on Applied Superconductivity, 2007, 17, 3733-3736.	1.7	16
151	Preparation of coated conductor architectures on Ni composite tapes. Superconductor Science and Technology, 2007, 20, 709-714.	3.5	33
152	Artificial pinning centres in YBCO thin films induced by substrate decoration with gas-phase-prepared Y ₂ O ₃ nanoparticles. Superconductor Science and Technology, 2007, 20, S239-S246.	3.5	37
153	Self-Organization of Heteroepitaxial CeO ₂ Nanodots Grown from Chemical Solutions. Advanced Materials, 2007, 19, 3937-3942.	21.0	57
154	Detailed investigations on La ₂ Zr ₂ O ₇ buffer layers for YBCO-coated conductors prepared by chemical solution deposition. Acta Materialia, 2007, 55, 517-529.	7.9	95
155	Study of pinning mechanisms in YBCO thin films by means of magnetic force microscopy. Physica C: Superconductivity and Its Applications, 2007, 460-462, 732-733.	1.2	8
156	Growth-controlled precipitates for flux pinning enhancement in YBa ₂ Cu ₃ O _{7-δ} films and coated conductors. Physica C: Superconductivity and Its Applications, 2007, 460-462, 1355-1356.	1.2	13
157	YBCO coated conductors prepared by chemical solution deposition: A TEM study. Physica C: Superconductivity and Its Applications, 2007, 460-462, 1407-1408.	1.2	6
158	Pre-oxidized cube textured nickel tapes for YBa ₂ Cu ₃ O _x coated conductors. Physica C: Superconductivity and Its Applications, 2007, 460-462, 1411-1412.	1.2	2
159	Preparation of advanced buffer layer architectures for YBa ₂ Cu ₃ O _x coated conductors based on surface oxidized Ni tapes. Physica C: Superconductivity and Its Applications, 2007, 460-462, 1413-1414.	1.2	1
160	Chemical solution deposition of YBa ₂ Cu ₃ O _{7-δ} coated conductors. Current Opinion in Solid State and Materials Science, 2006, 10, 205-216.	11.5	35
161	Preparation of buffer layer architectures for YBa ₂ Cu ₃ O _{7-δ} coated conductors based on surface oxidized Ni tapes. Superconductor Science and Technology, 2006, 19, 169-174.	3.5	31
162	Formation and pinning properties of growth-controlled nanoscale precipitates in YBa ₂ Cu ₃ O _{7-δ} /transition metal quasi-multilayers. Superconductor Science and Technology, 2006, 19, 534-540.	3.5	63

#	ARTICLE	IF	CITATIONS
163	Thin biaxially textured MgO and TiN films prepared by ion-beam assisted pulsed laser deposition for coated conductor applications. <i>Physica C: Superconductivity and Its Applications</i> , 2005, 426-431, 893-898.	1.2	18
164	La ₂ Zr ₂ O ₇ and Ce-Gd-O buffer layers for YBCO coated conductors using chemical solution deposition. <i>Physica C: Superconductivity and Its Applications</i> , 2005, 426-431, 979-984.	1.2	34
165	An all chemical solution deposition approach for the growth of highly textured CeO ₂ cap layers on La ₂ Zr ₂ O ₇ -buffered long lengths of biaxially textured Ni-W substrates for YBCO-coated conductors. <i>Superconductor Science and Technology</i> , 2005, 18, 1385-1390.	3.5	69
166	Highly textured La ₂ Zr ₂ O ₇ buffer layers for YBCO-coated conductors prepared by chemical solution deposition. <i>Superconductor Science and Technology</i> , 2005, 18, 334-339.	3.5	57
167	Formation of nanosized Ba ₂ O ₃ precipitates and their contribution to flux pinning in Ir-doped YBa ₂ Cu ₃ O _{7-δ} quasi-multilayers. <i>Applied Physics Letters</i> , 2005, 86, 122508.	3.3	113
168	Structural and magnetotransport properties of YBa ₂ Cu ₃ O _{7-δ} •Y ₂ O ₃ quasimultilayers. <i>Journal of Applied Physics</i> , 2005, 98, 123906.	2.5	33
169	Preparation of $MZrO_3$ (m M= Ba, Sr) Buffer Layers on Surface Oxidized Ni/NiO Templates by PLD and MOD. <i>IEEE Transactions on Applied Superconductivity</i> , 2005, 15, 3024-3027.	1.7	12
170	Thin biaxially textured TiN films on amorphous substrates prepared by ion-beam assisted pulsed laser deposition. <i>Applied Physics Letters</i> , 2004, 85, 2744-2746.	3.3	29
171	Nucleation controlled surface oxidation epitaxy of thermally grown NiO on (001) Ni for coated conductor applications assisted by Mo or Mn microalloying. <i>Physica C: Superconductivity and Its Applications</i> , 2004, 405, 219-226.	1.2	5
172	Hybrid liquid phase epitaxy processes for YBa ₂ Cu ₃ O ₇ film growth. <i>Superconductor Science and Technology</i> , 2004, 17, 1215-1223.	3.5	32
173	High temperature growth kinetics and texture of surface-oxidised NiO for coated superconductor applications. <i>Physica C: Superconductivity and Its Applications</i> , 2003, 385, 337-345.	1.2	18
174	Investigation of the growth and stability of (1 0 0)[0 0 1] NiO films grown by thermal oxidation of textured (1 0 0)[0 0 1] Ni tapes for coated conductor applications during oxygen exposure from 700 to 1400 Å°C. <i>Acta Materialia</i> , 2003, 51, 3759-3768.	7.9	16
175	Real Time In Situ Texture Investigations of Thin Film Growth Using RHEED. <i>Materials Science Forum</i> , 2002, 408-412, 1549-1554.	0.3	0
176	Mechanism of texture formation in MgO buffer layers using ion-beam assisted laser deposition. <i>Physica C: Superconductivity and Its Applications</i> , 2002, 372-376, 825-827.	1.2	11
177	Formation and destruction of cube texture in MgO films using ion beam assisted pulsed laser deposition. <i>Journal of Applied Physics</i> , 2001, 90, 1035-1039.	2.5	23
178	Development of Texture and Microstructure in MgO Buffer Layers Using Ion-Beam Assisted Pulsed Laser Deposition. , 2001, , 239-249.		3
179	Formation of Biaxially Textured MgO Buffer Layers using Ion-Beam Assisted Pulsed Laser Deposition. <i>Materials Research Society Symposia Proceedings</i> , 2000, 659, 1.	0.1	1
180	Growth of Biaxial Textured MgO-Layers by Ion-Beam Assisted Pulsed Laser Deposition. <i>Crystal Research and Technology</i> , 2000, 35, 419-425.	1.3	11

#	ARTICLE	IF	CITATIONS
181	Cube Texture Formation in a Rectangular Die Extruded Al-Mg Alloy. Materials Science Forum, 1998, 273-275, 471-476.	0.3	1