

Publikationen Hermann Adrian

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| 319. | Magnetic and Magnetoelastic Properties of Epitaxial (211)-oriented RFe₂ (R=Dy, Tb) Thin Films
J. Oster, L. Wiehl, H. Adrian, M. Huth
Journal of Magnetism and Magnetic Materials 292 (2005) 164-177 | 2005 |
| 318. | Crystallography, Morphology, and Magnetic Properties of Fe Nanostructures on faceted α-Al₂O₃ <i>m</i> Plane
J. Oster, M. Kallmayer, L. Wiehl, H.J. Elmers, and H. Adrian
F. Porrati and M. Huth
Journal of Applied Physics, 97 , 1 (2005) | 2005 |
| 317. | Thin Epitaxial Films of the Heusler Compound Co₂Cr_{0.6}Fe_{0.4}Al
G. Jakob, F. Casper, V. Beaumont, S. Falk, H.-J. Elmers, C. Felser, H. Adrian
Journal of Magnetism and Magnetic Materials 290-291 (2005) 1104-1107 | 2005 |
| 316. | How Electrons Scatter: Verifying the Drude Response
Marc Scheffler, Martin Dressel, Martin Jourdan, Hermann Adrian
Submitted to Nature Dez. 04 | 2004 |
| 315. | Optical Properties of YBa₂Cu₃O_{7-δ} and PrBa₂Cu₃O_{7-δ} films: High-energy Correlations and Metallicity
J. Bäckström, D. Budelmann, R. Rauer, and M. Rübhausen
H. Rodríguez and H. Adrian
Physical Review B 70 , 174502 (2004) | 2004 |
| 314. | Direct Observation of Drude Behavior in the Heavy-Fermion UPd₂Al₃ by Broadband Microwave Spectroscopy
Marc Scheffler, Martin Dressel, Martin Jourdan, Hermann Adrian
Submitted to Physica B | 2004 |
| 313. | Preparation of Superconducting Thin Films of UNi₂Al₃
A. Zakharov, M. Jourdan, M. Foerster, H. Adrian
Submitted to Physica B | 2004 |
| 312. | Growth of Fe Nanostructures
J. Oster, M. Huth, L. Wiehl, H. Adrian
Journal of Magnetism and Magnetic Materials 272-276 (2004) 1588-1589 | 2004 |
| 311. | Transport Anisotropy and Bc₂ (• , T) of UNi₂Al₃ Thin Films
M. Jourdan, A. Zakharov, H. Schneider, H. Adrian
Submitted to Physica B | 2004 |
| 310. | Magnetic Tunneling Junctions with the Heusler Compound Co₂Cr_{0.6}Fe_{0.4}Al
A. Conca, S. Falk, G. Jakob, M. Jourdan, H. Adrian
Journal of Magnetism and Magnetic Materials 0 (2004) 1-0 | 2004 |
| 309. | Evidence for Multiband Superconductivity in the Heavy Fermion Compound Uni₂Al₃
M. Jourdan, A. Zakharov, M. Foerster, and H. Adrian
Physical Review Letters, Vol 93, No. 9 , (2004) 097001-1 - 097001-4 | 2004 |
| 308. | Normal and Mixed State Hall Effect in (Hg_{0.9}Re_{0.1})Ba₂CaCu₂O_{6+δ} fully Textured HTS's Thin Films
A. Salem, G. Jakob, H. Adrian
Physica C, 415 , 62-68 (2004) | 2004 |
| 307. | Preparation, Scaling Behavior of Activation Energy, Hall Effect, and Flux-Flow Anisotropy of (Hg_{0.9}Re_{0.1})Ba₂CaCu₂O_{6+δ} HTS Thin Films
A. Salem, G. Jakob, and H. Adrian
Physica C 402 (2004) 354-364 | 2004 |

306. **Shift of the Surface-Barrier Part of the Irreversibility Line due to Columnar Defects in Bi₂Sr₂CaCu₂O₈ Thin Films** 2004
Yu. Talanov, H. Adrian, M. Basset, G. Jakob, G. Wirth
Physica C **402** (2004) 114-118
305. **Superconductivity in High-Quality (Hg_{0.9}Re_{0.1})Ba₂CaCu₂O_{6+δ} HTSC Thin Films** 2004
A. Salem, J. Jakob, and H. Adrian
Phys. stat. sol. ©, 1-4 (2004)
304. **Preparation of thin Films of the Heavy Fermion Superconductor Uni₂Al₃** 2004
Martin Jourdan, Andrey Zakharov, Michael Foerster, Hermann Adrian
Journal of Magnetism and Magnetic Materials, **272-276**, (2004), e163-e164
303. **Resonant Raman Characterisation of Ultra-Thin Nano-Protective Carbon Layers for Magnetic Storage Devices** 2003
M.v. Gradowski, A.C. Ferrari, R. Ohr, B. Jacoby, H. Hilgers, H.-H. Schneider, H. Adrian
Surface & Coatings Technology **174-175** (2003) 246-252
302. **Antiferromagnetic and Superconducting Proximity Effects in YBa₂Cu₃O_{7-δ} / PrBa₂Cu₃O_{7-δ} Superlattices** 2003
D. Budelmann, J. Holmlund, J. Andreasson, H. Rodriguez, J. Bäckström, H. Adrian, U. Merkt, and M. Rübhausen
Physical Review B **67**, 140507(R) (2003)
301. **Superconductivity of SrTiO_{3-δ}** 2003
M. Jourdan, N. Blümer, and H. Adrian
European Physical Journal B, **33**, pp. 25-30 (2003)
300. **Possibility of unconventional Superconductivity of SrTiO_{3-δ}** 2003
M. Jourdan, H. Adrian
Physica C, **388-389**, 509-510 (2003)
299. **Resistivity and Irreversibility Line of (Hg_{0.9}Re_{0.1})Ba₂CaCu₂O_{6+δ} HTS Thin Films** 2003
A. Salem, G. Jakob, H. Adrian
Physica C, **388-389**, 747-748 (2003)
298. **Guided Vortex Motion in Nb Films on Facetted Substrate Surfaces** 2003
O. Soroka, M. Huth, V. Shklovskij, J. Oster, H. Adrian
Physica C, **388-389**, 773-774 (2003)
297. **Correlation Gap in the Heavy-Fermion Antiferromagnet UPd₂Al₃** 2002
M. Dressel, N. Kasper, B. Gorshunov, K. Petukhov, and D.N. Peligrad
M. Jourdan, M. Huth and H. Adrian
Physical Review B, **66**, 035110 (2002)
296. **Nature of Heavy Quasiparticles in Magnetically Ordered Heavy Fermions UPd₂Al₃ and UPt₃** 2002
M. Dressel, N. Kasper, K. Petukhov, B. Gorshunov, G. Grüner, M. Huth, and H. Adrian
Physical Review Letters, Volume **88**, No. 18 (2002)
295. **Scaling Properties of Magnetic Domain Walls in Pt/Co/Pt Trilayers on MgO (111)** 2002
M. Huth, P. Haibach, and H. Adrian
Journal of Magnetism and Magnetic Materials, **240**, pp. 311-313 (2002)
294. **Highly ordered Fe and Nb Stripe Arrays on Facetted α-Al₂O₃(1010)** 2002
M. Huth, K.A. Ritley, J. Oster, H. Dosch, H. Adrian
Advanced Functional Materials, **12 (No 5)**, 2002
293. **Broadband Infrared Conductivity in an YBa₂Cu₃O_{6.7} Thin Film** 2001
A. Pimenov, CH. Hartinger, F. Mayr, A. Loidl, G. Jakob and H. Adrian
Ferroelectrics, Volume **249 (1-2)**, (2001), pp. 165-174

292. **Optical Determination of the Oxygen Content of $\text{YBa}_2\text{Cu}_3\text{O}_{6+\chi}$ Thin Films by IR Reflectance and Transmittance Measurements** 2001
P. Richter, M. Kreß, E. Mohler, H.G. Roskos, G. Jakob, H. Adrian
Physica C **366** (2001), 63-72
291. **Nondiverging Vortex Pinning Barriers at Low Current Densities across the Putative Elastic Vortex-Glass – Vortex-Liquid Transition in $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ Films** 2001
M. Basset, G. Jakob, H. Rodriguez, and H. Adrian
Physical Review B, Volume **64**, 220502(R)
290. **Magnetization Relaxation in the Flux-Creep Annealing Regime across the Second Magnetization Peak of Disordered $\text{YBa}_2\text{Cu}_3\text{O}_{7-\chi}$ Crystals** 2001
L. Miu, C.C. Almasan, D. Miu, H. Adrian
Physica C **363** (2001), 49-54
289. **Patterned Irradiation of $\text{YBa}_2\text{Cu}_3\text{O}_{7-\chi}$ Thin Films** 2001
M. Basset, G. Jakob, G. Wirth, and H. Adrian
Physical Review B, Volume **64**, 024525, (2001)
288. **Re-Entrance Phase Formation Behavior of CeSb Thin Films** 2001
M. Huth, H. Meffert, J. Oster, H. Adrian
Journal of Crystal Growth **231** (2001), 203-214
287. **Pseudogap in the Optical Spectra of UPd_2Al_3** 2000
M. Dressel, B. Gorshunov, N. Kasper, B. Nebendahl, M. Huth, and H. Adrian
J. Phys. : Cond. Matter **12** (2000), L 633-L 640
286. **Vortex Instability and Vortex-Glass Transition in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ and $\text{YBa}_2\text{Cu}_3\text{O}_7$ Thin Films** 2000
G. Jakob, P. Voss-de Haan, M. Basset, Z. Xiao, and H. Adrian
Int. Conf. On Oxide Superconductor Physics and Nanoengineering IV, Orlando, Florida, 2000
285. **Epitaxial Growth of $\text{SrBi}_2\text{Ta}_2\text{O}_9$ on Silicon** 2000
J. Schumacher, J.C. Martinez, M. Maier, H. Adrian, R. Raiteri, H.J. Butt
Ferroelectrics, **00**, pp. 1-12 (2000)
284. **Preparation and Characterization of $(\text{Hg}_{0.7}\text{Mo}_{0.3})\text{Sr}_2(\text{Ca}_{0.7}\text{Y}_{0.3})\text{Cu}_2\text{O}_x$ and $(\text{Hg}_{0.9}\text{Re}_{0.1})\text{Ba}_2\text{CaCu}_2\text{O}_y$ Superconducting Thin Films by Laser Ablation** 2000
Z.L. Xiao, G. Jakob, B. Hensel, H. Adrian, and E.Y. Andrei
Physica C, **341-348** (2000), pp. 2393-2394
283. **Importance of the Crossover-Current Density for a Vortex-Glass Analysis** 2000
P. Voss-de Haan, G. Jakob, and H. Adrian
Physica C **341-348**, pp.1387-1390 (2000)
282. **Step-Edge Induced Anisotropic Domain-Wall Propagation** 2000
P. Haibach, M. Huth, and H. Adrian
Phys. Rev. Lett. **84**, 1312-1315 (2000)
281. **Flux-Flow Instability and Heating Effects in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ and $\text{YBa}_2\text{Cu}_3\text{O}_7$ Thin Films** 2000
G. Jakob, P. Voss-de Haan, M. Wagner, Z. Xiao, and H. Adrian
Physica B **284-288**, pp. 897-898 (2000)
280. **Perpendicular Transport properties of $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}/\text{PrBa}_2\text{Cu}_3\text{O}_{7-\delta}$ Superlattices** 2000
J.C. Martinez, A. Schattke, G. Jakob, and H. Adrian
Physica B **284-288**, pp. 553-554 (2000)
279. **Magnetotransport Properties of Epitaxial (100)- and (111)-Oriented CeSb Thin Films** 2000
H. Meffert, M. Huth, J. Oster, P. Haibach, and H. Adrian
Physica B, **281&282** (2000), pp. 447-448
278. **Strong Coupling Effects in the Heavy-Fermion-Superconductor UPd_2Al_3** 2000
M. Huth, M. Jourdan, and H. Adrian
Physica B, **281&282** (2000), pp.882-887

277. **Antiferromagnetism and the Node Structure of the Superconducting Order Parameter of UPd₂Al₃** 2000
M. Huth, M. Jourdan, and H. Adrian
Europ. Phys. J. **B13**, 695-699 (2000)
276. **BaZrO₃ as a Buffer Layer for High T_c Superconducting Thin Film Application** 2000
M. Maier, M. Mauer, F. Martin, J.C. Martinez, and H. Adrian
Proceedings of the European Conf. On Applied Superconductivity, Sitges, Spain 1999
275. **Bi₂Sr₂CaCu₂O₈ Epitaxial Thin Films on Silicon Substrates** 2000
S. Ingebrandt, J.C. Martinez, M. Basset, M. Mauer, M. Maier, and H. Adrian
Proceedings of the European Conf. On Applied Superconductivity, Sitges, Spain 1999
274. **C-axis Tunneling in YBa₂Cu₃O_{7-δ}/PrBa₂Cu₃O_{7-δ} Superlattices** 2000
J.C. Martinez, A. Schattke, M. Jourdan, G. Jakob, and H. Adrian
Phys. Rev. **B 61**, 9162-9165 (2000).
273. **Ferroelectricity and Structure of BaTiO₃ Grown on YBa₂Cu₃O_{7-δ} Thin Films** 2000
Ch. Schwan, F. Martin, G. Jakob, J.C. Martinez, and H. Adrian
Europ. Phys. J. B **14**, 477-481 (2000)
272. **Frequency Dependent Relaxation Rate in the Superconducting YBa₂Cu₃O_{6+δ}** 2000
A. Pimenov, A. Loidl, G. Jakob and H. Adrian
Phys. Rev. B **61**, 7039 (2000)
271. **High Dynamic Exponents in Vortex Glass Transitions: Dependence of Critical Scaling on the Electric Field Range** 1999
P. Voss-de Haan, G. Jakob, and H. Adrian
Phys. Rev. **B 60**, 12443-12447 (1999)
270. **Growth Mechanism and Transport Properties of Thin La_{0.67}Ca_{0.33}MnO₃ Films** 1999
F. Martin, W. Westerburg, G. Jakob, and H. Adrian
J. Magn. Magn. Mater. **197**, 509-511 (1999)
269. **Direct Observation of the Quasiparticle Relaxation in YBa₂Cu₃O_{7-δ}** 1999
A. Pimenov, A. Loidl, G. Jakob, and H. Adrian
Physica **B 259-261**, 524-525 (1999)
268. **Thin Film Preparation of the Low Charge Carrier Density Kondo System CeSb** 1999
H. Meffert, J. Oster, P. Haibach, M. Huth, and H. Adrian
Physica **B 259-261**, 298-299 (1999)
267. **High-Temperature Transport Properties of La_{0.67}Ca_{0.33}MnO₃ Films** 1999
W. Westerburg, G. Jakob, F. Martin, and H. Adrian
J. Magn. Magn. Mater. **197**, 536-538 (1999)
266. **Superconductivity Mediated by Spin Fluctuations in the Heavy-Fermion Compound UPd₂Al₃** 1999
M. Jourdan, M. Huth, and H. Adrian
Nature **398**, 47-49 (1999)
265. **Universal Relationship between the Penetration Depth and the Normal State Conductivity in YBaCuO** 1999
A. Pimenov, A. Loidl, B. Schey, B. Stritzker, G. Jakob, H. Adrian, A.V. Pronin, and Yu.G. G.oncharov
Europhys. Lett. **48**, 73-78 (1999)
264. **Structural and Electrical Characterization of SrBi₂Nb₂O₉ Thin Films Deposited on YBa₂Cu₃O_{7-δ} and Nb Doped SrTiO₃** 1999
Ch. Schwan, P. Haibach, G. Jakob, J.C. Martinez, and H. Adrian
J. Appl. Phys. **86**, 960-964 (1999)
263. **Controlling the Intralayer Structure of Co/Pt Multilayers** 1999
P. Haibach, J. Köble, M. Jourdan, M. Huth, and H. Adrian
J. Mag. Mag. Mat. **199**, 752-754 (1999)

- 262. Resistivity and Hall Effect at High Temperatures in $\text{La}_{0.67}\text{Ca}_{0.33}\text{MnO}_3$** 1999
G. Jakob, W. Westerburg, F. Martin, H. Adrian, P.J.M. van Bentum and J.A.A.J. Perenboom
J. Appl. Physics **85**, 4803-4805 (1999)
- 261. Magnetic Properties of UPd_2Al_3 Thin Films Investigated by Resonant Magnetic X-Ray Scattering** 1999
A. Hiess, N. Bernhoeft, S. Langridge, C. Vettier, M. Jourdan, M. Huth, H. Adrian, and G.H. Lander
Physica **B 259-261**, 631-633 (1999)
- 260. Tunneling into Epitaxial UPd_2Al_3 Thin Films** 1999
M. Jourdan, M. Huth, P. Haibach, and H. Adrian
Physica **B 259-261**, 621-622 (1999)
- 259. Optical Conductivity in $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ Thin Films** 1999
A. Pimenov, A. Loidl, G. Jakob and H. Adrian
Phys. Rev. **B59**, 4390-4393 (1999)
- 258. Comment on „Nonlocal In-Plane Resistance due to Vortex-Antivortex Dynamics in High-Tc Superconducting Films“** 1999
L. Miu, G. Jakob, and H. Adrian
Phys. Rev. Lett. **82**, 672 (1999)
- 257. Flux-Flow Instability and its Anisotropy in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ Superconducting Films** 1999
Z.L. Xiao, P. Voss-de Haan, G. Jakob, Th. Kluge, P. Haibach, H. Adrian, and E.Y. Andrei
Phys. Rev. **B59**, 1481-1490 (1999)
- 256. Absence of Correlated Flux Pinning by Columnar Defects in Irradiated Epitaxial $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ Thin Films** 1999
F. Hillmer, G. Jakob, P. Haibach, U. Frey, Th. Kluge, H. Adrian, G. Wirth, E. Jäger, and E. Schimpf
Physica **C311**, 11-18 (1999)
- 255. MgO Surface Microstructure and Crystalline Coherence of Co/Pt Superlattices** 1998
P. Haibach, J. Köble, M. Huth, and H. Adrian
Thin Solid Films **336**, 168-171 (1998)
- 254. Josephson Junctions and Superconducting Field Effect Transistors Based on Epitaxial $\text{Bi}_2\text{Sr}_2\text{Ca}_{n-1}\text{Cu}_n\text{O}_{2(n+2)}$ Thin Films** 1998
U. Frey, M. Basset, K. Üstüner, M. Blumers, Ch. Schwan, J.C. Martinez, and H. Adrian
Appl. Supercond. **6** 429-436 (1998)
- 253. Supraleitende Feldeffekt-Transistoren auf Basis epitaktischer $\text{Bi}_2\text{Sr}_2\text{Ca}_{n-1}\text{Cu}_n\text{O}_{32n+4+\delta}$ Dünnschichten** 1998
J.C. Martinez, U. Frey, M. Basset, Ch. Schwan, and H. Adrian
6. Statusseminar Supraleitung und Tieftemperaturtechnik, VDI, 19-20. Okt. 1998, Gelsenkirchen
- 252. Small-Polaron Transport in $\text{La}_{0.67}\text{Ca}_{0.33}\text{MnO}_3$ Thin Films** 1998
G. Jakob, W. Westerburg, F. Martin, and H. Adrian
Phys. Rev. **B 58**, 14966-14970 (1998)
- 251. Heavy Ion Induced Columnar Defects: A Sensitive Probe for the 2D/3D Behaviour of Vortex Matter in High-Temperature Superconductors** 1998
G. Wirth, F. Hillmer, G. Jakob, E. Jäger, E. Schimpf, and H. Adrian
Nucl. InstR. Methods **B146**, 581-586 (1998)
- 250. Simulation of Magnetic Relaxation Measurements of Tetragonal Bi-2212 and Bi-2223 Thin Films** 1998
M. Holiastou, M. Pissas, D. Niarchos, P. Haibach, U. Frey, and H. Adrian
Supercond. Sci. Technol. **11**, 1241-1250 (1998)

- 249. Ferroelectric Properties and Crystal Structure of $\text{YBa}_2\text{Cu}_3\text{O}_7/\text{Ba}_x\text{Sr}_{1-x}\text{TiO}_3$ Heterostructures** 1998
Ch. Schwan, F. Martin, G. Jakob, J.C. Martinez, and H. Adrian
Mat. Res. Soc. Symp. Proc. **493**, 93 (1998)
- 248. Flux Pinning by Columnar Defects in Epitaxial $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ - and $\text{Bi}_2\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_{10}$ -Thin Films** 1998
F. Hillmer, G. Wirth, P. Haibach, U. Frey, Th. Kluge, G. Jakob, and H. Adrian
Proceedings of the *International Workshop on Critical Currents in Superconductors for Practical Applications*, Xi'an, China, March 6-8, 1997; World Scientific Publishing, Singapore (L. Zhou, H.W. Weber, E.W. Collings, eds.), pp. 289-292 (1998)
- 247. Probe Coherence Volume and the Interpretation of Scattering Experiments** 1998
N. Bernhoeft, A. Hiess, S. Langridge, A. Stunault, D. Wermeille, C. Vettier, G.H. Lander, M. Huth, M. Jourdan, and H. Adrian
Phys. Rev. Lett. **81**, 3419-3422 (1998)
- 246. Evidence of Charge-Carrier Compensation Effects in $\text{La}_{0.67}\text{Ca}_{0.33}\text{MnO}_3$** 1998
G. Jakob, F. Martin, W. Westerburg, and H. Adrian
Phys. Rev. **B 57**, 10252-10255 (1998)
- 245. Frequency-Dependent Conductivity of UPd_2Al_3 Films** 1998
M. Dressel, B.P. Gorshunov, A.V. Pronin, A.A. Mukhin, F. Mayr, A. Seeger, P. Lunkenheimer, A. Loidl, M. Jourdan, M. Huth, and H. Adrian
Physica **B 244**, 125-132 (1998)
- 244. Voltage Jumps in Current-Voltage Characteristics of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ Superconducting Films: Evidence for Flux-Flow Instability under the Influence of Self-Heating** 1998
Z.L. Xiao, P. Voss-de Haan, G. Jakob, and H. Adrian
Phys. Rev. **B 57**, R736-R739 (1998)
- 243. Vortex-Liquid Entanglement in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ Films in the Presence of Quenched Disorder** 1998
L. Miu, G. Jakob, P. Haibach, F. Hillmer, H. Adrian, and C.C. Almasan
Phys. Rev. **B 57**, 3151-3155 (1998)
- 242. Length-Scale-Dependent Vortex-Antivortex Unbinding in Epitaxial $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ Films** 1998
L. Miu, G. Jakob, P. Haibach, Th. Kluge, U. Frey, P. Voss-de Haan, and H. Adrian
Phys. Rev. **B 57**, 3144-3150 (1998)
- 241. Tunneling Junctions of the Heavy-Fermion Superconductor UPd_2Al_3** 1998
M. Jourdan, M. Huth, S. Mouloud and H. Adrian
J. Magn. Magn. Mater. **177-181**, 431 (1998)
- 240. Magnetoresistivity and Crystal Structure of Epitaxial $\text{La}_{0.67}\text{Ca}_{0.33}\text{MnO}_3$ Films** 1998
G. Jakob, F. Martin, W. Westerburg, and H. Adrian
J. Magn. Magn. Mater. **177-181**, 1247 (1998)
- 239. Josephson Junctions and Superconducting Field Effect Transistors Based on Epitaxial $\text{Bi}_2\text{Sr}_2\text{Ca}_{n-1}\text{Cu}_n\text{O}_{2(n+2)}$ Thin Films** 1997
U. Frey, K. Üstüner, M. Blumers, M. Basset, J.C. Martinez, and H. Adrian
6th *Int. Superconductive Electronics Conf.*, June 25-28, 1997, Berlin, D11, p. 230-232
- 238. Simulation of a Low Inductance Josephson Vortex Flow Transistor** 1997
J.C. Martinez, M. Blumers, U. Frey, and H. Adrian
6th *Int. Superconductive Electronics Conf.*, June 25-28, 1997, Berlin, D17, p. 248-250
- 237. Ferroelectric Properties of $\text{YBa}_2\text{Cu}_3\text{O}_7/\text{BaTiO}_3/\text{Au}$ Heterostructures** 1997
C. Schwan, J.C. Martinez, and H. Adrian
Proceedings of 3rd European Conference on Applied Superconductivity, Twente, The Netherlands, IOP Conf. Ser. No. 158, p. 805 (1997)

236. **C-axis Transport Properties of $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}/\text{PrBa}_2\text{Cu}_3\text{O}_{7-\delta}/\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ Trilayer Josephson Junctions** 1997
 A. Schattke, M. Engelmann, J.C. Martinez, and H. Adrian
Proceedings of 3rd European Conference on Applied Superconductivity, Twente, The Netherlands, IOP Conf. Ser. No. 158, p. 583 (1997)
235. **Preparation and X-Ray Pole-Figure Characterization of DC-Sputtered Bi-2201, Bi-2212 and Bi-2223 Thin Films** 1997
 M. Holiastou, V. Psycharis, D. Niarchos, P. Haibach, U. Frey, and H. Adrian
Supercond. Science and Techn. **10**, 712-716 (1997)
234. **Probing the Superconducting State of UPd_2Al_3 Thin Films by Tunneling Spectroscopy** 1997
 M. Jourdan, M. Huth, S. Mouloud and H. Adrian
Physica C **282-287**, 1883 (1997)
233. **Finite Range Scattering of Ni and Zn Impurities in Y-123 Thin Films** 1997
 T. Kluge, G. Jakob, M. Speckmann and H. Adrian
Physica C **282-287**, 669 (1997)
232. **Transversal Thermovoltages of (119) $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ Thin Films on Vicinal (110) SrTiO_3 Substrates** 1997
 P. Haibach, U. Frey, H. Adrian, F. Lankes, and K.F. Renk
Physica C **282-287**, 655 (1997)
231. **XRD and Micro Raman Characterization of Epitaxial Bi-2201, Bi-2212 and Bi-2223 Thin Films** 1997
 M. Holiastou, N. Poulakis, D. Palles, E. Liarokapis, D. Niarchos, U. Frey, and H. Adrian
Physica C **282-287**, 583 (1997)
230. **History Dependence of the Magnetization of Thin HTSC Films: an Explanation for Distorted SQUID Signals** 1997
 A. Wienss, G. Jakob, P. Voss-de Haan, and H. Adrian
Physica C **280**, 158-166 (1997)
229. **Investigations on the c-axis Transport Properties of $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}/\text{PrBa}_2\text{Cu}_3\text{O}_{7-\delta}$ Thin Film Superlattices** 1997
 A. Schattke, G. Jakob, J.C. Martinez and H. Adrian
IEEE Transactions on Applied Superconductivity **7**, 2727-2729 (1997)
228. **An Interface Effect in c-Oriented $(\text{Y}/\text{Pr})\text{Ba}_2\text{Cu}_3\text{O}_7$ Superlattices: Raman Scattering by "Forbidden" Phonons** 1997
 R. Li, R. Feile, E. Sherman, H. Adrian, and G. Jakob
J. Phys. Chem. Solids **58**, 379-383 (1997)
227. **Flux Pinning by Columnar Defects in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ -Thin Films** 1997
 F. Hillmer, G. Wirth, P. Haibach, U. Frey, Th. Kluge, G. Jakob and H. Adrian
Materials Science Forum **248-249**, 159 (1997)
226. **Superconducting Tunneling Spectroscopy on Epitaxial UPd_2Al_3 Thin Films** 1997
 M. Jourdan, M. Huth, J. Hessert, and H. Adrian
Physica B **230**, 335-337 (1997)
225. **Temperature and Angular Dependence of the Upper Critical Field of UPd_2Al_3 Thin Films** 1997
 J. Hessert, M. Huth, M. Jourdan, and H. Adrian
Physica B **230**, 373-376 (1997)
224. **Josephson Junctions and SQUIDs Based on Artificial Grain-Boundaries in $\text{Bi}_2\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_{10}$ -Thin Films** 1996
 G. Jakob, U. Frey, H. Meffert, P. Haibach, K. Üstüner and H. Adrian
 in *Oxide Superconductor Physics and Nano-Engineering II* (I. Bozovic and D. Pavuna, eds),
Proc. SPIE USA **2697**, 464-468 (1996)

- 223. Dimensional Crossover in the Pinning of Heavy Ion Irradiated Bi 2212 Films** 1996
H. Frank, J. Lethen, L. Buschmann, B. Decker, J. Wiesener, G. Wirth, P. Wagner, H. Adrian, P. Lemmens and G. Güntherodt
Physica C **259**, 142-150 (1996)
- 222. Some Physicomechanical Properties of Single-Crystal High-T_c YBa₂Cu₃O₇ Films** 1996
T.S. Orlova, B.I. Smirnov, V.V. Shpeizman, G. Adrian, and H. Adrian
Phys. Solid State **38**, 134 (1996)
- 221. Bi₂Sr₂Ca₂Cu₃O₁₀ Based Josephson Junctions and SQUIDs** 1996
U. Frey, H. Meffert, P. Haibach, K. Üstüner, G. Jakob, and H. Adrian
Czech. J. Phys. **46** (S1), 1289-1290 (1996)
- 220. Strain Induced Renormalization of Transport Properties in UPt₃ Thin Films** 1996
M. Huth, J. Hessert, S. Reber, M. Jourdan, P. Gegenwart, and H. Adrian
Czech. J. Phys. **46** (S1), 791-792 (1996)
- 219. Evidence for Unconventional Superconductivity in UPd₂Al₃ Thin Films** 1996
M. Jourdan, M. Huth, and H. Adrian
Czech. J. Phys. **46** (S1), 789-790 (1996)
- 218. AC Field Dependence of the Susceptibility of Bi₂Sr₂CaCu₂O₈ Thin Films at Low DC Fields** 1996
F. Mrowka, M. Wurlitzer, P. Esquinazi, U. Frey, and H. Adrian
Czech. J. Phys. **46** (S1), 1101-1102 (1996)
- 217. Vortex Dynamics in Bi₂Sr₂CaCu₂O₈ Thin Films in the Presence of Columnar Defects** 1996
F. Hillmer, G. Wirth, P. Haibach, U. Frey, Th. Kluge, and H. Adrian
J. Low Temp. Physics **105**, 1153-1158 (1996)
- 216. Scattering Phase Shifts in Ni and Zn Doped YBa₂Cu₃O₇** 1996
T. Kluge, G. Jakob, M. Speckmann, C. Tomé-Rosa, and H. Adrian
J. Low Temp. Physics **105**, 1415-1420 (1996)
- 215. Growth Characteristics of Sputter Deposited UPt₃ Thin Films** 1996
M. Huth, S. Reber, C. Heske, P. Schicketanz, J. Hessert, P. Gegenwart, and H. Adrian
J. Physics, Condensed Matter **8**, 8777-8786 (1996)
- 214. Preparation, Characterization and Dielectric Properties of YBa₂Cu₃O₇/Insulator-Heterostructures** 1996
C. Schwan, A. Schattke, S. Eckert, H. Adrian, B. Schiener, and A. Loidl
J. Physique IV **6** (C3), 321-325 (1996)
- 213. Transport Properties of Bi₂Sr₂Ca₂Cu₃O₁₀ Bicrystal Grain Boundary Junctions** 1996
U. Frey, H. Meffert, P. Haibach, K. Üstüner, and H. Adrian
J. Physique IV **6** (C3), 277-282 (1996)
- 212. Patterning of Suitable Structures for the Investigation of the Josephson Effect in YBa₂Cu₃O₇/PrBa₂Cu₃O₇ Superlattices** 1996
A. Schattke, Ch. Schwan, H. Meffert, G. Jakob, and H. Adrian
J. Physique IV **6** (C3), 357-360 (1996)
- 211. The Josephson-Effect in YBa₂Cu₃O₇/PrBa₂Cu₃O₇ Superlattices** 1996
A. Schattke, G. Jakob, J.C. Martinez, and H. Adrian
3rd Workshop on Digital Applications, Josephson Junctions and 3-Terminal Devices, Twente, Netherlands (1996) p. 48-52
- 210. Bi₂Sr₂Ca₂Cu₃O₁₀ Based Bicrystal Grain Boundary Josephson Junctions and SQUIDs** 1996
U. Frey, H. Meffert, P. Haibach, K. Üstüner, G. Jakob, and H. Adrian
3rd Workshop on Digital Applications, Josephson Junctions and 3-Terminal Devices, Twente, Netherlands (1996) p. 100-104
- 209. Two Methods of Expanding the Measurement Abilities of a Four Circle Diffractometer** 1996
T. Steinborn, H. Fuess, and H. Adrian
J. Appl. Crystal. **29** (Part 5), 604-606 (1996)

- 208. Fermi Surface of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ Thin Films** 1996
C.J. Hatterer, V. Mairet, F.C. Beuran, C. Coussot, B. Eustache, X.M. Xie, X.Z. Xu, M. Laguës, P. Wagner, H. Adrian, C.D. Cavellin, G. Indelkofer, and A. Taleb
Physica C **261**, 153-156 (1996)
- 207. Orientational Changes of the a-b Plane of $\text{YBa}_2\text{Cu}_3\text{O}_7$ Films on Different Substrates** 1996
T. Steinborn, H. Adrian, E. Brecht, H. Fuess, M. Maul, G. Miehe, K. Petersen, M. Rao, W. Schmahl, M. Schmitt, C. Traeholt, J. Wiesner, G. Wirth, H. Zandbergen, and J. Zegenhagen
J. Appl. Crystal. **29**, 125-133 (1996)
- 206. Mixed-State Hall Effect Studies in High- T_c -Superconducting YPrSLm Superlattices** 1996
K. Li, Y. Zhang, and H. Adrian
Phys.Rev. B **53**, 8608 (1996)
- 205. Matching and Surface Barrier Effects of the Flux Line Lattice in Superconducting Films and Multilayers** 1996
M. Ziese, P. Esquinazi, P. Wagner, H. Adrian, S.H. Brongersma, and R. Griessen
Phys.Rev. B **53**, 8658 (1996)
- 204. Charge Transfer in High- T_c (Y/Pr) $\text{Ba}_2\text{Cu}_3\text{O}_7$ Superlattices** 1996
R. Li, E. Sherman, R. Feile, G. Jakob, Th.Hahn, and H. Adrian
Phys.Rev.B **53**, 6836 (1996)
- 203. Light Scattering Mechanism in (Y/Pr) $\text{Ba}_2\text{Cu}_3\text{O}_7$ Superlattices** 1995
E. Sherman, R. Li, R. Feile, H. Adrian, and G. Jakob
J. Low Temp. Phys. **99**, 263-265 (1995)
- 202. Dissipation Processes in Transport-Current-Carrying Epitaxial $\text{Bi}_2\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_{10}$ and $\text{Bi}_2\text{Sr}_2\text{Ca}_{n-1}\text{Cu}_n\text{O}_{2n+4+\delta}$ Thin Films** 1995
L. Miu, P. Wagner, A. Hadish, U. Frey, F. Hillmer, and H. Adrian
Proceedings of the *European Conference on Applied Superconductivity EUCAS 1995*, Edinburgh, Scotland; D. Dew-Hughes (ed.), Vol. 2, 231-234 (1995)
- 201. Study of High Temperature Superconducting Thin Films in Magnetic Fields up to 50 Tesla** 1995
J. Vanacken, L. Trappeniers, A.S. Lagutin, P. Wagner, U. Frey, H. Adrian, F. Herlach, V.V. Moshchalkov, and Y. Bruynseraede
Proceedings of the *European Conference on Applied Superconductivity EUCAS 1995*, Edinburgh, Scotland; D. Dew-Hughes (ed.), Vol. 2, 971-974 (1995)
- 200. Preparation, Characterization and Transport Properties of Epitaxial $\text{YBa}_2\text{Cu}_3\text{O}_7/\text{REBa}_2\text{Cu}_3\text{O}_7$ Superlattices** 1995
A. Schattke, Th. Becherer, S. Eckert, G. Jakob, and H. Adrian
Proceedings of the *European Conference on Applied Superconductivity EUCAS 1995*, Edinburgh, Scotland; D. Dew-Hughes (ed.), Vol. 2, 215-218 (1995)
- 199. Vortex Dynamics in $\text{Bi}_2\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_{10}$ Thin Films** 1995
U. Frey, P. Haibach, F. Hillmer, A. Hadish, S. Eckert, L. Miu, H. Adrian, P. Wagner, C.L. Jia, and H. Soltner
Proceedings of the *European Conference on Applied Superconductivity EUCAS 1995*, Edinburgh, Scotland; D. Dew-Hughes (ed.), Vol. 2, 955-958 (1995)
- 198. Transport Measurements on Epitaxial $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ Thin Films** 1995
F. Hillmer, U. Frey, P. Wagner, G. Wirth, J. Wiesner, and H. Adrian
Proceedings of the *European Conference on Applied Superconductivity EUCAS 1995*, Edinburgh, Scotland; D. Dew-Hughes (ed.), Vol. 2, 951-954 (1995)
- 197. Hall-Effect and Flux Dynamics in $\text{YBa}_2\text{Cu}_3\text{O}_7/\text{PrBa}_2\text{Cu}_3\text{O}_7$ Multilayers in the Mixed State** 1995
X.G. Qiu, G. Jakob, V.V. Moshchalkov, Y. Bruynseraede, and H. Adrian
Phys. Rev. B **52**, 12994-12999 (1995)
- 196. Vortex Unbinding and Layer Decoupling in Epitaxial $\text{Bi}_2\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_{10}$ Films** 1995
L. Miu, P. Wagner, U. Frey, A. Hadish, and H. Adrian
Phys. Rev. B **52**, 4553-4558 (1995)

195. **Thermally Assisted Flux Flow in Epitaxial $\text{Bi}_2\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_{10}$ Thin Films: Estimation of the Anisotropy Parameter** 1995
L. Miu, P. Wagner, A. Hadish, U. Frey, and H. Adrian
J. of Superconductivity **8**, 293-297 (1995)
194. **Bose-Glass Behavior of the Vortex System in Epitaxial $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ Films with Columnar Defects** 1995
L. Miu, P. Wagner, A. Hadish, H. Adrian, J. Wiesner, and G. Wirth
Phys. Rev. **B 51**, 3953-3956 (1995)
193. **Light Scattering in a $(\text{Y/Pr})\text{Ba}_2\text{Cu}_3\text{O}_7$ Superlattice and the Intensity of a New Raman Active Phonon** 1995
R. Li, E. Sherman, R. Feile, H. Adrian, G. Jakob, and Th. Hahn
Physica **C 242**, 46-54 (1995)
192. **Confined and Extended Optical Phonons in an Ultrathin-Layer $\text{YBa}_2\text{Cu}_3\text{O}_7/\text{PrBa}_2\text{Cu}_3\text{O}_7$ Superlattice** 1995
R. Li, R. Feile, Th. Hahn, G. Jakob, and H. Adrian
Phys. Rev. **B 51**, 1322-1325 (1995)
191. **Evidence for a Vortex-Liquid--Vortex-Glass Transition in Epitaxial $\text{Bi}_2\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_{10}$ Thin Films** 1995
P. Wagner, U. Frey, F. Hillmer, and H. Adrian
Phys. Rev. **B 51**, 1206-1212 (1995)
190. **Fabrication of Biepitaxial YBCO Josephson Junctions on Different Substrates** 1995
K. Petersen, C. Stölzel, M. Schmitt, C. Krimmer, W. Wilkens, J. Söllner, H.W. Grueninger, and H. Adrian
IEEE Transactions on Applied Superconductivity **5**, 2180-2183 (1995)
189. **Anisotropic Transport Properties of UPd_2Al_3 Thin Films** 1995
J. Hessert, M. Huth, M. Jourdan, and H. Adrian
Physica **B 206&207**, 618 (1995)
188. **Activation Energy and Critical Current in UPd_2Al_3 -Films** 1995
M. Huth, J. Hessert, M. Jourdan, and H. Adrian
Physica **B 206&207**, 615 (1995)
187. **Quasiparticle Tunneling in $\text{YBa}_2\text{Cu}_3\text{O}_7/\text{Insulator}/\text{YBa}_2\text{Cu}_3\text{O}_7$ Ramp-Type Junctions Prepared by Laser Ablation** 1994
Th. Becherer, M. Kunz, C. Stölzel, and H. Adrian
in *Proceedings of the 7th Intern. Symposium on Weak Superconductivity*, editors S. Benacka, P. Seidel, and V. Strbik; Smolenice, Slovakia (1994) p. 91
186. **Thermally Activated Dissipation in Epitaxial $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ Films - Evidence for the Occurrence of Vortex Strings with Three Dimensional Fluctuations in Low Magnetic Fields** 1994
L. Miu, P. Wagner, A. Hadish, F. Hillmer, and H. Adrian
Physica **C 234**, 249 (1994)
185. **Preparation of Ramp Junctions and Multilayers for Superconducting Comparators** 1994
C. Stölzel, W. Wilkens, A. Marx, U. Fath, K. Petersen, J. Söllner, and H. Adrian
Physica **C 235-240**, 3349 (1994)
184. **Mechanically Induced Growth-Disorder High- T_c -Josephson-Junctions** 1994
M. Schmitt, S. Eckert, Th. Becherer, and H. Adrian
Physica **C 235-240**, 3347 (1994)
183. **Structural and Electrical Properties of Biepitaxial Josephson Junctions of $\text{YBa}_2\text{Cu}_3\text{O}_7$** 1994
K. Petersen, C. Stölzel, M. Schmitt, C. Krimmer, W. Wilkens, J. Söllner, H.W. Grueninger and H. Adrian
Physica **C 235-240**, 3259 (1994)

182. **Scaling Behavior of U(I)-Characteristics and Zero Field Resistive Transitions in Epitaxial $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ Thin Films** 1994
P. Wagner, F. Hillmer, U. Frey, A. Hadisch, Th. Kluge, K. Petersen, and H. Adrian
Physica C **235-240**, 3165 (1994)
181. **Magneto-resistance of $\text{YBa}_2\text{Cu}_3\text{O}_7/\text{PrBa}_2\text{Cu}_3\text{O}_7$ Multilayers** 1994
E. Rosseel, X. Qiu, G. Jakob, V.V. Moshchalkov, Y. Bruynseraede, Th. Hahn, and H. Adrian
Physica C **235-240**, 3161 (1994)
180. **Heavy-Ion-Induced Effects on the Transport Critical Current Density in Epitaxial 2212-BSCCO Thin Films** 1994
J. Wiesner, H. Fuess, G. Wirth, E. Jäger, E. Schimpf, P. Wagner, F. Hillmer, and H. Adrian
Physica C **235-240**, 2971 (1994)
179. **Pinning and Irreversibility Behavior in Au-irradiated Bi-2212 Films** 1994
H. Frank, P. Lemmens, J. Lethen, J. Wiesner, G. Wirth, P. Wagner, H. Adrian and G. Güntherodt
Physica C **235-240**, 2739 (1994)
178. **A Systematic Comparison of Transport Properties and Pinning Potentials in YBCO and BiSCCO Thin Films** 1994
R.M. Schalk, G. Samadi Hosseinali, H.W. Weber, S. Gründorfer, D. Bäuerle, S. Proyer, P. Wagner, U. Frey, and H. Adrian
Physica C **235-240**, 2625 (1994)
177. **Magnetic-Field and Temperature Dependent Hall Effect in UPd_2Al_3 Epitaxial Films** 1994
M. Huth, J. Hessert, M. Jourdan, A. Kaldowski, and H. Adrian
Physica C **235-240**, 2439 (1994)
176. **Low-Temperature Magneto-resistance of UPd_2Al_3 Thin Films** 1994
J. Hessert, M. Huth, M. Jourdan, and H. Adrian
Physica C **235-240**, 2437 (1994)
175. **Comparative Study of the Magneto-resistivity of $\text{YBa}_2\text{Cu}_3\text{O}_7$ and $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ Epitaxial Thin Films in the Fluctuation Regime** 1994
F. Gollnik, H.-C. Ri, A. Beck, R. Gross, P. Wagner, and H. Adrian
Physica C **235-240**, 1933 (1994)
174. **Quasiparticle Tunnelling in $\text{YBa}_2\text{Cu}_3\text{O}_7/\text{CeO}_2/\text{YBa}_2\text{Cu}_3\text{O}_7$ Ramp-Type Junctions** 1994
Th. Becherer, M. Kunz, C. Stölzel, and H. Adrian
Physica C **235-240**, 1885 (1994)
173. **External Modification of Twinning in YBCO Thin Films on Different Substrates** 1994
T. Steinborn, H. Adrian, E. Brecht, H. Fuess, M. Maul, G. Miehe, K. Petersen, B. Schulte, M. Schmitt, J. Wiesner, G. Wirth, and J. Zegenhagen
Physica C **235-240**, 673 (1994)
172. **Phase-Slip Dissipation and Dimensionality above the Irreversibility Line in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$** 1994
M. Giura, S. Sarti, E. Silva, R. Fastampa, M. Giura, F. Murtas, R. Marcon, H. Adrian, and P. Wagner
Phys. Rev. B **50**, 12920 (1994)
171. **Nernst, Seebeck, and Hall Effect in the Mixed State of $\text{YBa}_2\text{Cu}_3\text{O}_7$ and $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ Thin Films - A Comparative Study** 1994
H.-C. Ri, R. Gross, F. Gollnik, A. Beck, R.P. Huebener, P. Wagner, and H. Adrian
Phys. Rev. B **50**, 3312 (1994)
170. **Biepitaxial Josephson Junctions and SuFET Technology for the Preparation of HTS-JoFETs** 1994
K. Petersen, A. Walkenhorst, C. Stölzel, W. Wilkens, C. Krimmer, J. Söllner, H.W. Grueninger, R. Fischer, M. Schmitt, Th. Becherer, and H. Adrian
J. de Physique IV **4**, C6-205 (1994)

169. **High- T_c -Based Josephson-Junctions and SQUIDs by Mechanically Induced Growth Disorder** 1994
M. Schmitt, A. Hadisch, P. Wagner, Th. Becherer, and H. Adrian
J. de Physique IV, **4**, C6-217 (1994)
168. **Coherence Effects in the Low-Temperature Hall Coefficient of the Heavy-Fermion System Ud_2Al_3** 1994
M. Huth, J. Hessert, M. Jourdan, A. Kaldowski, and H. Adrian
Phys. Rev. B **50**, 1309 (1994)
167. **$YBa_2Cu_3O_7$ Josephson Junctions and dc-SQUIDs by Mechanically Induced Growth Disorder** 1994
M. Schmitt, S. Freisem, Th. Becherer, A. Hadisch, and H. Adrian
J. Appl. Phys. **76**, 3220 (1994)
166. **Preparation and Characterization of CeO_2 -Based Superconducting Field Effect Transistors (SuFETs)** 1994
K. Petersen, A. Walkenhorst, M. Schmitt, Th. Becherer, and H. Adrian
J. Appl. Phys. **76**, 8146 (1994)
165. **Heavy-Ion-Induced Effects on the Transport Critical Current Density of 2212-BSCCO-Thin-Films** 1994
J. Wiesner, H. Fuess, G. Wirth, E. Jaeger, E. Schimpf, P. Wagner, F. Hillmer, H. Adrian, H.W. Zandbergen, C. Traeholt, and J.-G. Wen
Proceedings of the 7th Intern. Workshop on Critical Currents, Alpbach, Austria (1994) p. 315
164. **On the Difference of the Angular, Field and Temperature Dependence of J_c^{ab} in YBCO and Bi-2223 Thin Films** 1994
G. Samadi Hosseinali, R.M. Schalk, H.W. Weber, S. Gründorfer, D. Bäuerle, S. Proyer, H. Adrian, P. Wagner, and U. Frey
Proceedings of the 7th Intern. Workshop on Critical Currents, Alpbach, Austria (1994)
163. **Critical Transport Current Density and Flux Creep in Epitaxial Bi-Sr-Ca-Cu-O Thin Films** 1994
P. Wagner, F. Hillmer, U. Frey, A. Hadisch, Th. Becherer, S. Eckert, J. Wiesner, G. Wirth, T. Steinborn, and H. Adrian
Proceedings of the 7th Intern. Workshop on Critical Currents, Alpbach, Austria (1994) p. 371
162. **Comparative Photoemission Studies of $Bi_{2-x}Pb_xSr_2Ca_{n-1}Cu_nO_{2n+4+y}$ ($n=2,3$)** 1994
C.S. Gopinath, S. Subramanian, M. Huth, and H. Adrian
J. Electron Spectrosc. Relat. Phenom. **70**, 61 (1994)
161. **Dimensional Crossover and Flux Dynamics in Low- and High- T_c Multilayers** 1994
Y. Bruynseraede, V.V. Metlushko, K. Temst, M. Baert, E. Rossel, V.V. Moshchalkov, G. Güntherodt, G. Jakob, Th. Hahn, and H. Adrian
SPIE **2157**, 161 (1994)
160. **Thermally Activated Flux Movement and Critical Transport Current Density in Epitaxial $Bi_2Sr_2CaCu_2O_8$ Films** 1994
P. Wagner, F. Hillmer, U. Frey, and H. Adrian
Phys. Rev. B **49**, 13184 (1994)
159. **Twinning of $YBa_2Cu_3O_7$ Thin Films on Different Substrates and Modification by Irradiation** 1994
T. Steinborn, G. Miehe, J. Wiesner, E. Brecht, H. Fuess, G. Wirth, B. Schulte, M. Speckmann, H. Adrian, M. Maul, K. Petersen, W. Blau, and M. McConnel
Physica C **220**, 219 (1994)
158. **CeO_2 - An Alternative Insulator Material for Superconducting Field Effect Devices** 1994
A. Walkenhorst, K. Petersen, M. Schmitt, and H. Adrian
Appl. Phys. Lett. **64**, 1871 (1994)

157. **Effect of the Dimensional Crossover on Critical Currents and Flux Creep in YBa₂Cu₃O₇/PrBa₂Cu₃O₇ Multilayers** 1994
V.V. Metlushko, G. Güntherodt, V.V. Moshchalkov, C.M. Fu, Y. Bruynseraede, G. Jakob, Th. Hahn and H. Adrian
Physica B **194-196**, 2391 (1994)
156. **Normal Electron Tunnelling in Ramp-Type YBCO-Junctions Prepared by Laser Ablation** 1994
Th. Becherer, C. Stölzel, M. Kunz, G. Adrian and H. Adrian
Physica B **194-196**, 1673 (1994)
155. **YBa₂Cu₃O₇ Thin Films on Sapphire with Buffer Layers of CeO₂** 1994
M. Maul, B. Schulte, P. Häussler, and H. Adrian
Physica B **194-196**, 2285 (1994)
154. **Kosterlitz-Thouless Scaling of the Resistive Transition in YBa₂Cu₃O₇/PrBa₂Cu₃O₇ Superlattices** 1994
G. Jakob, Th. Hahn, K. Li, and H. Adrian
Physica B **194-196**, 2379 (1994)
153. **In situ-Preparation, Characterization and Transport Properties of High Quality Bi₂Sr₂CaCu₂O₈ Thin Films** 1994
P. Wagner, F. Hillmer, U. Frey, H. Adrian, T. Steinborn and L. Ranno
Physica B **194-196**, 2193 (1994)
152. **Raman Scattering Studies of Ultrathin-Layer YBa₂Cu₃O₇/PrBa₂Cu₃O₇ Superlattices** 1994
R. Li, R. Feile, G. Jakob, Th. Hahn, and H. Adrian
J. of Superconductivity **7**, 213 (1994)
151. **Characterization of Epitaxial Bi₂Sr₂CaCu₂O₈ Thin Films** 1994
P. Wagner, F. Hillmer, U. Frey, H. Adrian, T. Steinborn, A. Elschner, L. Ranno, I. Heywaert and Y. Bruynseraede
J. of Superconductivity **7**, 217 (1994)
150. **Characterization of YBa₂Cu₃O₇/PrBa₂Cu₃O₇ Superlattices** 1994
G. Jakob, Th. Hahn, Th. Kluge, and H. Adrian
J. of Superconductivity **7**, 197 (1994)
149. **Preparation of UPd₂Al₃ Films** 1994
M. Huth, A. Kaldowski, and H. Adrian
Physica B **199&200**, 116 (1994)
148. **Comparison of Superconducting Transport Properties of Bi₂Sr₂CaCu₂O₈ and YBa₂Cu₃O₇ Bicrystal Grain Boundary Junctions** 1993
R. Gross, B. Mayer, L. Alff, T. Träuble, P. Wagner, and H. Adrian
Proceedings of the *4th International Superconductive Electronics Conference*, ISEC 1993, Boulder, Colorado, USA (1993), p. 231
147. **Transport Properties of YBa₂Cu₃O₇/Y_{1-x}Pr_xBa₂Cu₃O₇/YBa₂Cu₃O₇ Edge Junctions** 1993
C. Stölzel, M. Siegel, G. Adrian, C. Krimmer, J. Söllner, W. Wilkens, G. Schulz, and H. Adrian
Proceedings of the *4th International Superconductive Electronics Conference*, ISEC 1993, Boulder, Colorado, USA (1993), p. 258
146. **Vortex State and Dimensionality** 1993
V.V. Moshchalkov, Y. Bruynseraede, V.V. Methlushko, G. Güntherodt, I.N. Goncharov, A.Yu. Didyk, P. Wagner, H. Adrian, H. Thomas, and K. Winzer
Proceedings of *NATO A.S.I. "Vortices in Superfluids"*, Corsica, France (1993) by Kluwer Academic Publishers (Netherlands) p. 293
145. **Effect of Anisotropy on Superconducting Critical Parameters of High T_c Cuprates** 1993
V.V. Moshchalkov, Y. Bruynseraede, V.V. Metlushko, G. Güntherodt, P. Wagner, H. Adrian, I.N. Goncharov, A.Yu. Didyk, H. Thomas, and K. Winzer
Proceedings of the *European Conference on Applied Superconductivity EUCAS 1993*, Göttingen (1993), H.C. Freyhardt (ed.), Vol. 1, 53 (1993)

- 144. Bi₂Sr₂CaCu₂O₈ Bicrystal Grain Boundary Josephson Junctions** 1993
 B. Mayer, L. Alff, T. Träuble, R. Gross, P. Wagner, and H. Adrian
 Proceedings of the *European Conference on Applied Superconductivity EUCAS 1993*,
 Göttingen (1993), H.C. Freyhardt (ed.), Vol. 2, 1191 (1993)
- 143. Enhancement of Critical Current Density in Bi₂Sr₂CaCu₂O₈ Thin Films and Irradiated Single Crystals** 1993
 V.V. Methlushko, G. G.üntherodt, P. Wagner, H. Adrian, I.N. Goncharov, A.Yu. Didyk,
 V.V. Moshchalkov, and Y. Bruynseraede
 Proceedings of the *European Conference on Applied Superconductivity EUCAS 1993*,
 Göttingen (1993), H.C. Freyhardt (ed.), Vol. 1, 857 (1993)
- 142. Preparation of Epitaxial Bi₂Sr₂Ca₂Cu₃O₁₀ Thin Films by DC Sputtering** 1993
 P. Wagner, U. Frey, T. Steinborn, F. Hillmer, A. Hadisch, and H. Adrian
 Proceedings of the *European Conference on Applied Superconductivity EUCAS 1993*,
 Göttingen (1993), H.C. Freyhardt (ed.), Vol. 1, 579 (1993)
- 141. Preparation and Characterization of SQUIDS with YBa₂Cu₃O₇ Scratch Junctions** 1993
 M. Schmitt, A. Hadisch, S. Freisem, Th. Becherer, P. Wagner, and H. Adrian
 Proceedings of the *European Conference on Applied Superconductivity EUCAS 1993*,
 Göttingen (1993), H.C. Freyhardt (ed.), Vol. 2, 1175 (1993)
- 140. Materials Aspects in Superconducting Field Effect Transistors (SuFETs) Based on Ultrathin YBa₂Cu₃O₇ Films** 1993
 A. Walkenhorst, K. Petersen, M. Schmitt, H. Adrian, C. Doughty, X.X. Xi, and T. Venkatesan
 Proceedings of the *European Conference on Applied Superconductivity EUCAS 1993*,
 Göttingen (1993), H.C. Freyhardt (ed.), Vol. 2, 1529 (1993)
- 139. YBa₂Cu₃O₇ Thin Films on Metallic Substrates with Biaxially Aligned Buffer Layers Made by Ion Beam Assisted Deposition** 1993
 M. Maul, H. Eckhardt, H. Adrian, T. Steinborn, and H. Fuess
 Proceedings of the *European Conference on Applied Superconductivity EUCAS 1993*,
 Göttingen (1993), H.C. Freyhardt (ed.), Vol. 1, 521 (1993)
- 138. Transport Properties of YBa₂Cu₃O₇/Y_{1-x}Pr_xBa₂Cu₃O₇/YBa₂Cu₃O₇ Edge Junctions** 1993
 C. Stölzel, M. Siegel, W. Wilkens, Th. Becherer, G. Adrian, J. Söllner, G. Schulz, K. Petersen,
 and H. Adrian
 Proceedings of the *European Conference on Applied Superconductivity EUCAS 1993*,
 Göttingen (1993), H.C. Freyhardt (ed.), Vol. 2, 1107 (1993)
- 137. Transport Properties of YBa₂Cu₃O₇/Y_{1-x}Pr_xBa₂Cu₃O₇/YBa₂Cu₃O₇ Josephson Junctions** 1993
 C. Stölzel, M. Siegel, G. Adrian, C. Krimmer, J. Söllner, W. Wilkens, G. Schulz, and H. Adrian
 Appl. Phys. Lett. **63**, 2970 (1993)
- 136. Enhancement of Critical Current Density by Confinement of Vortices in Bi₂Sr₂CaCu₂O₈ Single Crystals and Thin Films** 1993
 V.V. Metlushko, G. G.üntherodt, P. Wagner, H. Adrian, I.N. Goncharov, V.V. Moshchalkov, and
 Y. Bruynseraede
 Appl. Phys. Lett. **63**, 2821 (1993)
- 135. Preparation and Structural Characterization of Thin Epitaxial Bi₂Sr₂CaCu₂O₈ Films with T_c in the 90K Range** 1993
 P. Wagner, F. Hillmer, U. Frey, H. Adrian, T. Steinborn, L. Ranno, A. Elschner, I. Heyvaert and
 Y. Bruynseraede
 Physica **C 215**, 123 (1993)
- 134. Preparation and Characterization of Thin Films of the Heavy Fermion Superconductor UPd₂Al₃** 1993
 M. Huth, A. Kaldowski, J. Hessert, T. Steinborn and H. Adrian
 Solid State Commun. **87**, 1133 (1993)

- 133. Superconducting Transport Properties of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ Bicrystal Grain Boundary Junctions** 1993
B. Mayer, L. Alff, T. Träuble, R. Gross, P. Wagner and H. Adrian
Appl. Phys. Lett. **63**, 996 (1993)
- 132. Effects of an a-Si Layer on the Superconducting Properties of High T_c - $\text{YBa}_2\text{Cu}_3\text{O}_7$ Films** 1993
M. Serwe, R. Schneider, G. Schulz and H. Adrian
Physica **C 213**, 370 (1993)
- 131. Epitaxial CeO_2 Buffer Layers for $\text{YBa}_2\text{Cu}_3\text{O}_7$ Films on Sapphire** 1993
M. Maul, B. Schulte, P. Häussler, G. Frank, T. Steinborn, H. Fuess, and H. Adrian
J. Appl. Phys. **74**, 2942 (1993)
- 130. Ac Conductivity in Superconducting $\text{YBa}_2\text{Cu}_3\text{O}_7$ and $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ Thin Films** 1993
P. Lunkenheimer, A. Loidl, C. Tomé-Rosa, P. Wagner, and H. Adrian
Physica **B 186-188**, 986 (1993)
- 129. Superconductive and Normal State Transport Properties of Epitaxial $\text{YBa}_2(\text{Cu}_{1-x}\text{Ni}_x)_3\text{O}_7$ Films** 1993
M. Speckmann, Th. Kluge, C. Tomé-Rosa, Th. Becherer, and H. Adrian
Phys. Rev. **B 47**, 15185 (1993)
- 128. Normal Electron Tunneling in Ramp-Type $\text{YBa}_2\text{Cu}_3\text{O}_7/\text{PrBa}_2\text{Cu}_3\text{O}_7/\text{YBa}_2\text{Cu}_3\text{O}_7$ Junctions Prepared by Laser Ablation** 1993
Th. Becherer, C. Stölzel, G. Adrian, and H. Adrian
Phys. Rev. **B 47**, 14650 (1993)
- 127. Structural and Compositional Characterization of $\text{YBa}_2\text{Cu}_3\text{O}_7/\text{PrBa}_2\text{Cu}_3\text{O}_7$ Superlattices by Means of High-Resolution Electron Microscopy** 1993
C.L. Jia, H. Soltner, G. Jakob, Th. Hahn, H. Adrian, and K. Urban
Physica **C 210**, 1 (1993)
- 126. Compositional Effects in $\text{YBa}_2\text{Cu}_3\text{O}_7$ Thin Films Prepared by Metal-Organic Chemical Vapor Deposition** 1993
B. Schulte, M. Maul, P. Häussler, W. Becker, M. Schmelz, M. Steins, and H. Adrian
J. All. Comp. **195**, 299 (1993)
- 125. Renormalization of Phonons in a $(\text{Y/Pr})\text{Ba}_2\text{Cu}_3\text{O}_7$ Superlattice Investigated by Raman Spectroscopy** 1993
R. Li, R. Feile, G. Jakob, Th. Hahn, and H. Adrian
Phys. Rev. Lett. **70**, 3804 (1993)
- 124. Scaling of the Angular Dependence of the Critical Current Density in High- T_c Superconductors** 1993
G. Jakob, M. Schmitt, Th. Kluge, C. Tomé-Rosa, P. Wagner, Th. Hahn, and H. Adrian
Phys. Rev. **B 47**, 12099 (1993)
- 123. Compositional Effects in $\text{Y}_x\text{Ba}_y\text{Cu}_z\text{O}_{7-\delta}$ Thin Films Prepared by Metalorganic Chemical Vapor Deposition** 1993
B. Schulte, M. Maul, P. Häussler, and H. Adrian
Appl. Phys. Lett., **62**, 633 (1993)
- 122. Effects of Dimensional Crossover on Magnetoresistance and Conductivity Fluctuations in $\text{YBa}_2\text{Cu}_3\text{O}_7/\text{PrBa}_2\text{Cu}_3\text{O}_7$ Superlattices** 1993
C.M. Fu, V.V. Moshchalkov, E. Rosseel, M. Baert, W. Boon, Y. Bruynseraede, G. Jakob, Th. Hahn, and H. Adrian
Physica **C 206**, 110 (1993)
- 121. Impurity Pinning in Epitaxial $\text{YBa}_2(\text{Cu}_{1-x}\text{TM}_x)_3\text{O}_7$ (TM = Zn, Ni) Thin Films** 1993
C. Tomé-Rosa, M. Schmitt, A. Walkenhorst, Th. Kluge, M. Speckmann, P. Wagner, and H. Adrian
IEEE Trans. on Applied Superconductivity **3**, 1468 (1993)

120. **Superconductivity of $\text{YBa}_2\text{Cu}_3\text{O}_7/\text{PrBa}_2\text{Cu}_3\text{O}_7$ Superlattices** 1993
G. Jakob, M. Schmitt, Th. Hahn, C. Stölzel, Th. Kluge, and H. Adrian
IEEE Trans. on Applied Superconductivity **3**, 1624 (1993)
119. **Effect of Dimensional Crossover on Magnetoresistance of $\text{YBa}_2\text{Cu}_3\text{O}_7/\text{PrBa}_2\text{Cu}_3\text{O}_7$ Superlattices** 1993
C.M. Fu, V.V. Moshchalkov, E. Rossel, M. Baert, W. Boon, Y. Bruynseraede, G. Jakob, Th. Hahn and H. Adrian
J. Alloys and Comp. **195**, 191 (1993)
118. **Phonon Softening and Electron-Phonon Interaction in $\text{YBa}_2\text{Cu}_3\text{O}_7$** 1993
R. Feile, R. Li, U. Weimer, C. Tomé-Rosa and H. Adrian
in *Springer Series of Solid State Sciences, Vol. 113*, eds. H. Kuzmany, M. Mehring, J. Fink (Springer, Berlin, 1993) p. 310
117. **Optical Absorption due to $\text{Pr}^{3+} 4f-4f$ Transitions in $\text{PrBa}_2\text{Cu}_3\text{O}_6$** 1993
R. Boyn, H. Zimmermann, U. Müller, G. Jakob, and H. Adrian
in *Springer Series of Solid State Sciences, Vol. 113*, eds. H. Kuzmany, M. Mehring, J. Fink (Springer, Berlin, 1993) p. 344
116. **Thin $\text{YBa}_2\text{Cu}_3\text{O}_7$ -Films by Electron Beam Evaporation - Growth and in situ Characterization** 1993
M. Maul, B. Schulte, P. Häussler, and H. Adrian
J. Appl. Phys. **73**, 2032 (1993)
115. **Scaling Properties of the Anisotropic Magnetoresistance in $\text{YBa}_2\text{Cu}_3\text{O}_7/\text{PrBa}_2\text{Cu}_3\text{O}_7$ Superlattices** 1993
C.M. Fu, V.V. Moshchalkov, W. Boon, K. Temst, Y. Bruynseraede, G. Jakob, Th. Hahn, and H. Adrian
Physica **C 205**, 111 (1993)
114. **Complex Conductivity in Thin Films of $\text{YBa}_2\text{Cu}_3\text{O}_7$ and $\text{YBa}_2(\text{Cu}_{1-x}\text{TM}_x)_3\text{O}_7$ with $\text{TM} = \text{Zn}$ and Ni** 1992
P. Lunkenheimer, A. Loidl, C. Tomé-Rosa, P. Wagner and H. Adrian
Proceedings of the *Intern. Conf. on Physics of Transition Metals*, eds. J. Kübler and P.M. Oppeneer, (Darmstadt, Deutschland, 1992) p. 139
113. **Pinning Force Density in $\text{YBa}_2\text{Cu}_3\text{O}_7$ Films and $\text{YBa}_2\text{Cu}_3\text{O}_7/\text{PrBa}_2\text{Cu}_3\text{O}_7$ Superlattices** 1992
M. Schmitt, Th. Kluge, C. Tomé-Rosa, G. Jakob, P. Wagner, Th. Hahn, and H. Adrian
Proceedings of the *Intern. Conf. on Physics of Transition Metals*, eds. J. Kübler and P.M. Oppeneer, (Darmstadt, Deutschland, 1992) p. 135
112. **Decoupling and Flux-Line-Dynamics in $\text{YBa}_2\text{Cu}_3\text{O}_7/\text{PrBa}_2\text{Cu}_3\text{O}_7$ -Superlattices** 1992
G. Jakob, Th. Hahn, C. Stölzel, C. Tomé-Rosa, Th. Kluge, and H. Adrian
Proceedings of the *Intern. Conf. on Physics of Transition Metals*, eds. J. Kübler and P.M. Oppeneer, (Darmstadt, Deutschland, 1992) p. 131
111. **Tunneling Spectroscopy of High- T_c Superconductors** 1992
Th. Becherer, J. Kowalewski, Th. Wolf, M. Huth, W. Aßmus, and H. Adrian
Proceedings of the *Intern. Conf. on Physics of Transition Metals*, eds. J. Kübler and P.M. Oppeneer, (Darmstadt, Deutschland, 1992) p. 123
110. **Anisotropic Superconducting Properties of $\text{YBa}_2\text{Cu}_3\text{O}_7$ Based Thin Films and Superlattices** 1992
H. Adrian, G. Jakob, C. Tomé-Rosa, M. Schmitt, P. Wagner, Th. Hahn, Th. Kluge, and M. Speckmann
Proceedings of the *Intern. Conf. on Physics of Transition Metals*, eds. J. Kübler and P.M. Oppeneer, (Darmstadt, Deutschland, 1992) p. 113
109. **c-axis Oriented Thin $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ Films Prepared by Flash Evaporation** 1992
C. Stölzel, M. Huth, and H. Adrian
Physica **C 204**, 15 (1992)

- 108. Frequency Dependent Conductivity in $\text{YBa}_2(\text{Cu}_{1-x}\text{Zn}_x)_3\text{O}_7$ Thin Films** 1992
P. Lunkenheimer, A. Loidl, C. Tomé-Rosa, and H. Adrian
Physica C **201**, 13 (1992)
- 107. Thermally Activated Flux Flow and Anisotropy of the Pinning Force Density in Epitaxially Grown $\text{YBa}_2(\text{Cu}_{1-x}\text{Zn}_x)_3\text{O}_7$ Thin Films** 1992
M. Schmitt, A. Walkenhorst, C. Tomé-Rosa, M. Paulson, P. Wagner, Th. Kluge, G. Jakob, and H. Adrian
in *Progress in High Temperature Superconductors, Vol. 30*, eds. M. Baran, W. Gorzkowski and H. Szymczak (World Scientific Publishing Co., Singapore, 1992) p. 360
- 106. Transport Properties of $\text{YBa}_2\text{Cu}_3\text{O}_7/\text{PrBa}_2\text{Cu}_3\text{O}_7$ Superlattices** 1992
G. Jakob, Th. Hahn, C. Stölzel, C. Tomé-Rosa, and H. Adrian
Europhys. Lett. **19**, 135 (1992)
- 105. In situ-Preparation of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+x}$ Thin Films by DC-Sputtering** 1992
P. Wagner, H. Adrian, and C. Tomé-Rosa
Physica C **195**, 258 (1992)
- 104. Contribution of Zn Impurity Atoms to the Anisotropic Pinning Force Density in Thin Epitaxial $\text{YBa}_2(\text{Cu}_{1-x}\text{Zn}_x)_3\text{O}_7$ Films** 1992
A. Walkenhorst, C. Tomé-Rosa, P. Wagner, Th. Kluge, C. Stölzel, G. Adrian, G. Jakob, and H. Adrian
Europhys. Lett. **18**, 641 (1992)
- 103. Anisotropy of the Pinning Force Density and the Depinning Field in Epitaxially Grown $\text{YBa}_2(\text{Cu}_{1-x}\text{Zn}_x)_3\text{O}_7$ Films and $\text{YBa}_2\text{Cu}_3\text{O}_7/\text{PrBa}_2\text{Cu}_3\text{O}_7$ Superlattices** 1992
H. Adrian, G. Jakob, P. Przyslupski, C. Tomé-Rosa, A. Walkenhorst, M. Schmitt, and G. Adrian
Proceedings of the Intern. Workshop on Electronic Properties and Mechanisms in High- T_c Superconductors, in Tsukuba, Japan 1991, eds. T. Oguchi et al., (North-Holland, 1992) p. 361
- 102. Frequency Dependent Conductivity in $\text{YBa}_2\text{Cu}_3\text{O}_7$ Thin Films** 1992
P. Lunkenheimer, A. Loidl, C. Tomé-Rosa, and H. Adrian
in *High T_c Superconductor Thin Films*, ed. L. Corraera (Elsevier Science Publishers, Netherlands, 1992) p. 183
- 101. A New MO-CVD Technique for the Preparation of $\text{YBa}_2\text{Cu}_3\text{O}_7$ Thin Films** 1992
B. Schulte, M. Maul, W. Becker, S. Elschner, E.G. Schlosser, P. Häussler, and H. Adrian
in *High T_c Superconductor Thin Films*, ed. L. Corraera (Elsevier Science Publishers, Netherlands, 1992) p. 325
- 100. Superconductivity and Transport Properties of Epitaxial $\text{YBa}_2(\text{Cu}_{1-x}\text{Zn}_x)_3\text{O}_7$ -Thin Films** 1992
C. Tomé-Rosa, G. Jakob, M. Paulson, P. Wagner, A. Walkenhorst, M. Schmitt, S. Elschner, and H. Adrian
Supercond. Sci. Techn. **5**, 133 (1992)
- 99. Critical Current Density of $\text{YBa}_2\text{Cu}_3\text{O}_7/\text{PrBa}_2\text{Cu}_3\text{O}_7$ Superlattices** 1992
P. Przyslupski, G. Jakob, C. Stölzel, C. Tomé-Rosa, A. Walkenhorst, M. Schmitt, and H. Adrian
Supercond. Sci. Techn. **5**, 149 (1992)
- 98. Normal and Superconductive Properties of Zinc-Doped $\text{YBa}_2\text{Cu}_3\text{O}_7$ Thin Films** 1992
C. Tomé-Rosa, A. Walkenhorst, G. Jakob, M. Paulson, P. Wagner, Th. Kluge, and H. Adrian
in *Physics and Materials Science of High Temperature Superconductors II*, eds. R. Kossowsky et al., (Kluwer Academic Publisher, Netherlands, 1992) p.543
- 97. Break Junction Tunneling on $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ -Single Crystals** 1992
Th. Becherer, J. Kowalewski, M. Schmitt, M. Huth, W. Assmus, and H. Adrian
Z. Physik B **86**, 23 (1992)
- 96. In-situ Preparation and Transport Properties of $\text{YBa}_2\text{Cu}_3\text{O}_7$ Films on Sapphire with $\text{Zr}(\text{Y})\text{O}_2$ Buffer Layers** 1991
G. Adrian, G. Grabe, W. Wilkens, H. Adrian, M. Huth, and A. Walkenhorst
J. Appl. Phys. **70**, 6934 (1991)

95. **Thermally Activated Flux-Flow in Epitaxially Grown $\text{YBa}_2(\text{Cu}_{1-x}\text{Zn}_x)_3\text{O}_7$ Thin Films** 1991
C. Tomé-Rosa, G. Jakob, M. Paulson, P. Wagner, A. Walkenhorst, M. Schmitt, and H. Adrian
Physica C **185-189**, 2175 (1991)
94. **Anisotropy of the Pinning Force Density and the Resistive Transitions in $\text{YBa}_2\text{Cu}_3\text{O}_7/\text{PrBa}_2\text{Cu}_3\text{O}_7$ Superlattices** 1991
G. Jakob, P. Przyslupski, C. Stölzel, C. Tomé-Rosa, A. Walkenhorst, M. Schmitt, and H. Adrian
Physica C **185-189**, 2087 (1991)
93. **Thin Films of $\text{YBa}_2\text{Cu}_3\text{O}_7$ Prepared by a New MO-CVD Technique** 1991
B. Schulte, M. Maul, W. Becker, S. Elschner, E.G. Schlosser, P. Häussler, and H. Adrian
Physica C **185-189**, 2005 (1991)
92. **Electrical and Structural Properties of $\text{YBa}_2\text{Cu}_3\text{O}_7$ Films on Poly and Single Crystalline Oxides of Cu and Ni** 1991
A. Ginsbach, G. Adrian, R. Schneider, G. Schulz, H.W. Grueniger, G. Grabe, and H. Adrian
Physica C **185-189**, 2111 (1991)
91. **Surface Morphology and Electrical Transport Properties of $\text{YBa}_2\text{Cu}_3\text{O}_7$ Films on Substrates Relevant for Technical Application** 1991
G. Adrian, G. Grabe, W. Wilkens, H. Adrian, M. Huth, and A. Walkenhorst
Physica C **185-189**, 2109 (1991)
90. **Influence of Composition and Long Term Annealing on the Weak Link Behavior of the High- T_c Superconductor $(\text{Bi,Pb})_{2+x}\text{Sr}_{2-y}\text{Ca}_{2+y}\text{Cu}_{3+z}\text{O}_{10+\delta}$** 1991
M. Huth, M. Schmitt, and H. Adrian
Physica C **178**, 203 (1991)
89. **Anisotropy of the Depinning Field and the Pinning Force Density of Thin Epitaxial $\text{YBa}_2\text{Cu}_3\text{O}_7$ Films** 1991
A. Walkenhorst, C. Tomé-Rosa, C. Stölzel, G. Jakob, M. Schmitt, and H. Adrian
Physica C **177**, 165 (1991)
88. **Carrier Gas Free Chemical Vapor Deposition Technique for in-situ Preparation of High Quality $\text{YBa}_2\text{Cu}_3\text{O}_7$ Thin Films** 1991
B. Schulte, M. Maul, W. Becker, E.G. Schlosser, S. Elschner, P. Häussler, and H. Adrian
Appl. Phys. Lett. **59**, 869 (1991)
87. **High Superconducting Critical Current Densities in $\text{YBa}_2\text{Cu}_3\text{O}_7/\text{PrBa}_2\text{Cu}_3\text{O}_7$ Superlattices** 1991
G. Jakob, P. Przyslupski, C. Stölzel, C. Tomé-Rosa, A. Walkenhorst, M. Schmitt, and H. Adrian
Appl. Phys. Lett. **59**, 1626 (1991)
86. **Anomalous Intensity of the 335 cm^{-1} Phonon in $\text{YBa}_2\text{Cu}_3\text{O}_7$** 1991
R. Li, U. Weimer, R. Feile, C. Tomé-Rosa, and H. Adrian
Physica C **175**, 89 (1991)
85. **Critical Current Density and Upper Critical Field of Epitaxial $\text{YBa}_2\text{Cu}_3\text{O}_7$ Thin Films** 1991
C. Tomé-Rosa, G. Jakob, A. Walkenhorst, M. Maul, M. Schmitt, M. Paulson, and H. Adrian
Z. Physik B **83**, 221 (1991)
84. **Thin Film Preparation, Transport Properties and Superconductivity of $\text{YBa}_2\text{Cu}_3\text{O}_7$** 1991
H. Adrian, C. Tomé-Rosa, G. Jakob, A. Walkenhorst, M. Maul, M. Paulson, M. Schmitt, P. Przyslupski, G. Adrian, M. Huth, and Th. Becherer
Supercond. Sci. Technol. **4**, 166 (1991)
83. **Superconductive and Normal State Transport Properties of $\text{YBa}_2\text{Cu}_3\text{O}_7$ -Films on Sapphire in High Magnetic Fields** 1991
G. Adrian, W. Wilkens, H. Adrian, and M. Maul
Supercond. Sci. Technol. **4**, 169 (1991)

82. **Growth of High Quality $\text{YBa}_2\text{Cu}_3\text{O}_7$ Films on Various Substrate Materials and Influence of Zn-Doping on Superconductivity** 1990
C. Tomé-Rosa, G. Jakob, M. Maul, A. Walkenhorst, M. Schmitt, P. Wagner, P. Przyslupski, and H. Adrian
Physica C **171**, 231 (1990)
81. **Preparation, Patterning and Critical Current Density of $\text{YBa}_2\text{Cu}_3\text{O}_7$ Films** 1990
C. Tomé-Rosa, A. Walkenhorst, M. Maul, G. Jakob, H. Adrian, K. Haberle, P. Przyslupski, and G. Adrian
Physica B **165 & 166**, 1477 (1990)
80. **Influence of Composition and Long Term Annealing on the Formation of the 110K Phase in the Bi-Pb-Sr-Ca-Cu-O System** 1990
G. Jakob, M. Huth, Th. Becherer, M. Schmitt, H. Spille, and H. Adrian
Physica B **165 & 166**, 1677 (1990)
79. **Fabrication of in-situ Superconducting Thin Films of (Y,Tm)-Ba-Cu-O on SrTiO_3 , NdAlCaO_4 , and LaGaO_3 Substrates** 1990
P. Przyslupski, L.T. Baczewski, M. Berkowski, H. Adrian, C. Tomé-Rosa, and G. Jakob
Physica B **165 & 166**, 1475 (1990)
78. **Tunneling Conductance in Layered Oxide Superconductors** 1990
M. Tachiki, S. Takahashi, F. Steglich, and H. Adrian
Z. Phys. B **80**, 161 (1990)
77. **Effects of Additional Irradiation Induced Scattering Centers on the Quantum Hall Plateau Widths in $\text{GaAs-Al}_x\text{Ga}_{1-x}\text{As}$ Heterostructures** 1989
W. Möhle, H. Adrian, L. Bliiek, G. Weimann, and W. Schlapp
in *High Magnetic Fields in Semiconductor Physics II*, edited by G. Landwehr (Springer Series in Solid State Sciences Vol. 87, Springer, Berlin, Heidelberg, 1989) p. 4
76. **Anomalous $H_{c1}(T)$ Behavior of Single Crystalline $\text{YBa}_2\text{Cu}_3\text{O}_7$** 1989
H. Adrian, W. Aßmus, A. Höhr, J. Kowalewski, H. Spille, and F. Steglich
Physica C **162-164**, 329 (1989)
75. **Quantitative Depth Profile Analysis of High- T_c -Superconductors with Sputtered Neutral Mass Spectroscopy (SNMS)** 1989
H. Peters, L. Skoda, G. Crecelius, and H. Adrian
Fres. Z. Anal. Chem. **333**, 343 (1989)
74. **The New Intercalation Compound $\text{TaS}_2 \cdot 0.5\text{C}_4\text{NH}_5$. Preparation and Physical Properties** 1989
H.-U. Hummel, R. Fackler, H. Adrian, and M. Lippert
Z. Anorg. Allg. Chemie **575**, 165 (1989)
73. **Effects of Irradiation Induced Lattice Defects on the Quantum Hall Effect in $\text{GaAs/Al}_x\text{Ga}_{1-x}\text{As}$ Heterostructures** 1989
H. Adrian, W. Möhle, L. Bliiek, G. Weimann, and W. Schlapp
J. Appl. Phys. **65**, 3498 (1989)
72. **Effects of Irradiation Induced Lattice Disorder in Superconducting $\text{YBa}_2\text{Cu}_3\text{O}_7$ Films** 1989
P. Schmitt, H. Adrian, W. Gerhäuser, G. Adrian, and R. Stumpf
IEEE Trans. Mag. **25**, 2241 (1989)
71. **Influence of Lattice Disorder on Superconductivity and Normal State Transport Properties of Heavy Fermion Systems** 1989
G. Adrian and H. Adrian
J. Less Common Met. **149**, 313 (1989)
70. **Variations of the Quantum Hall Plateaus with Lattice Disorder for $\text{GaAs-Al}_x\text{Ga}_{1-x}\text{As}$ -Heterostructures** 1989
W. Möhle, H. Adrian, L. Bliiek, G. Weimann, and W. Schlapp
Superl. and Microstr. **5**, 465 (1989)

69. **Irradiation Induced Disorder Effects in Heavy-Fermion-Systems** 1988
G. Adrian, H. Adrian, W. Möhle, W. Gerhäuser, M. Lippert, B. Hensel, and H. Niederhofer
J. Magn. Magn. Mat. **76 & 77**, 642 (1988)
68. **Comparison of Impurity Effects in Heavy-Fermion-Systems and High-T_c-Superconductors** 1988
H. Adrian, G. Adrian, H. Niederhofer, O. Bauer, and W. Gerhäuser
J. Magn. Magn. Mat. **76 & 77**, 533 (1988)
67. **Evidence for Second Phase Transitions in the Superconducting States of Heavy-Fermion Systems and High-T_c-Superconductors** 1988
J. Ströbel, M. Simmerl, H. Adrian, A. Thomä, G. Adrian, B. Hensel, and G. Saemann-Ischenko
J. Magn. Magn. Mat. **76 & 77**, 536 (1988)
66. **Solid-State Amorphization Reaction of Ni/Zr Multilayers after Irradiation with 30 MeV Sulphur Ions at Low Temperature** 1988
A. Thomä, H. Adrian, and G. Saemann-Ischenko
J. Less Common Metals **145**, 115 (1988)
65. **Superconductivity and Normal State Properties of YBa₂(Cu_{1-x}Ni_x)₃O₇** 1988
H. Adrian, O. Bauer, H. Niederhofer, G. Adrian, and S. Nielsen
Physica **C 153**, 928 (1988)
64. **Preparation of Superconducting Thin Films of YBa₂Cu₃O₇ by DC-Magnetron Sputtering** 1988
P. Schmitt, H. Adrian, W. Gerhäuser, W. Möhle, and B. Hensel
Physica **C 153**, 782 (1988)
63. **Magnetization of Superconducting YBa₂Cu₃O₇ and Ni- and Zn-Substituted Samples** 1988
J. Ströbel, A. Thomä, B. Hensel, H. Adrian, and G. Saemann-Ischenko
Physica **C 153**, 1537 (1988)
62. **Effects of Lattice Disorder on the Heavy Fermion Systems CeCu₂Si₂, CeCu₆ and UPt₃** 1988
G. Adrian and H. Adrian
Physica **C 153**, 435 (1988)
61. **Effects of Electron Diffusivity and Coulomb Interaction in Superconducting Amorphous Films** 1988
B. Hensel, M. Lippert and H. Adrian
Physica **C 153**, 471 (1988)
60. **Effect of Nickel Impurities on Superconductivity and Electrical Resistivity of the High-T_c-Superconductor YBa₂Cu₃O₇** 1988
H. Adrian and S. Nielsen
Europhys. Lett. **5**, 265 (1988)
59. **Impurity and Defect Induced Variations of Hall-Effect and Magnetoresistivity of the Heavy Fermion Systems CeCu₂Si₂ and CeCu₆** 1987
G. Adrian and H. Adrian
Physica **148B**, 26 (1987)
58. **Superconductivity and Magnetic Interactions in the Pseudoternary bct System Ho(Rh_{1-x}Ru_x)₄B₄** 1987
H. Adrian, A. Thomä, A. Meinelt, R. Blank, B. Hensel, and G. Adrian
Physica **148B**, 76 (1987)
57. **Inelastic-Electron-Tunneling-Spectroscopy of Derivates of Benzoic Acid and Effects due to Irradiation with 3 MeV Protons at 4.2 K** 1987
J. Burger, G. Saemann-Ischenko, and H. Adrian
J.J. Appl. Phys. **26**, 763 (1987)
56. **Electronic Structure and Superconducting and Magnetic Properties of bct Ho(Rh_{1-x}TM_x)₄B₄ with TM = Os or Ru** 1987
W. Möhle, B. Roas, H. Adrian, and R.L. Johnson
J.J. Appl. Phys. **26**, 1281 (1987)

55. **Correlations between Controlled Structural Inhomogeneities, Superconductivity and Transport Properties in Amorphous Films of $(\text{Mo}_{0.6}\text{Ru}_{0.4})_{0.85}\text{B}_{0.15}$ and $\text{Zr}_{1-x}\text{Si}_x$** 1987
B. Hensel, M. Lippert, and H. Adrian
J.J. Appl. Phys. **26**, 1325 (1987)
54. **Dependence of Upper Critical Field and Magnetoresistivity of Superconducting Amorphous $(\text{Mo}_{0.6}\text{Ru}_{0.4})_{100-x}\text{B}_x$ Films on Structural Inhomogeneities** 1987
H. Adrian, N. Toyota, B. Hensel, and K. Söldner
J.J. Appl. Phys. **26**, 1309 (1987)
53. **Preparation, Structure, Transport Properties, Photoemission- and FIR-Studies of the High- T_c Superconductors $\text{La}_{2-x}\text{Sr}_x\text{CuO}_{4+\delta}$, $\text{Y}_{2-x}\text{Ba}_x\text{CuO}_4$ and $\text{YBa}_2\text{Cu}_3\text{O}_7$** 1987
W. Schindler, A. Grassmann, P. Schmitt, J. Ströbel, H. Niederhofer, G. Adrian, G. Saemann-Ischenko, and H. Adrian
J.J. Appl. Phys. **26**, 1199 (1987)
52. **Preparation and Electrical Transport Properties of $\text{Ce}_{1-x}\text{La}_x\text{Cu}_6$ Thin Films** 1987
G. Adrian, H. Adrian, and W. Möhle
J.J. Appl. Phys. **26**, 527 (1987)
51. **Variation of Electronic Properties and Evidence for a Reversible Defect Induced Metal to Semiconductor Transition in PbMo_6S_8 Observed by Ion Irradiation and Subsequent Thermal Annealing of Thin Films** 1987
G. Adrian and H. Adrian
Z. Physik **B 67**, 75 (1987)
50. **Lattice Disorder Effects on Superconductivity and Electrical Resistivity of Heavy Fermion CeCu_2Si_2 Films** 1987
G. Adrian and H. Adrian
Europhys. Lett. **3**, 819 (1987)
49. **Influence of Irradiation Induced Disorder on Superconductivity and Electrical Resistivity of Thin Films of the Heavy Fermion System CeCu_2Si_2** 1987
G. Holter, H. Adrian, and B. Hensel
J. Magn. Magn. Mat. **63 & 64**, 475 (1987)
48. **Effects of Thermal Relaxation and Low Temperature Irradiation on the Short Range Chemical Order of Amorphous Zr-Fe Alloys** 1986
J. Wecker, H.C. Freyhardt, H. Adrian, and S. Klaumünzer
J. Appl. Phys. **60**, 4141 (1986)
47. **Superconductivity, Magnetic Properties and Specific Heat of the Pseudoternary, Body-Centered-Tetragonal System $\text{Ho}(\text{Rh}_{1-x}\text{Ru}_x)_4\text{B}_4$** 1986
A. Thomä, H. Adrian, and A. Meinelt
J. Low Temp. Phys **64**, 329 (1986)
46. **Thin Film Preparation, Superconductivity and Transport Properties of the Heavy Fermion System CeCu_2Si_2** 1986
G. Holter and H. Adrian
Solid State Commun. **58**, 45 (1986)
45. **Annealing of Heavy Ion Irradiated Nb_3Ge Films** 1985
H.P. Krämer, W. Schauer, H. Wühl, C. Nölscher, H. Adrian, and G. Saemann-Ischenko
IEEE Trans. Mag. **21**, 823 (1985)
44. **On Empirical Rules for Bulk and Fluctuating Superconductivity in Amorphous Metals** 1985
N. Toyota, H. Adrian, A. Inoue, K. Matsuzaki, T. Fukase, K. Fukamichi, T. Matsumoto, Y. Muto, R. Müller, and L. Söldner
Physica **135B**, 271 (1985)
43. **The Influence of Structural Inhomogeneities on Superconductivity and Transport Properties in Amorphous $(\text{Mo}_{0.6}\text{Ru}_{0.4})_{85}\text{B}_{15}$ Films** 1985
R. Blank, H. Adrian, G. Saemann-Ischenko, and K. Osamura
Physica **135B**, 290 (1985)

42. **Electronic Structure and Magnetic Order of Superconducting Pseudoternary $R(\text{Rh}_{1-x}\text{T}_x)_4\text{B}_4$ with R = Ho or Y and T = Ru or Ir** 1985
R. Knauf, H. Adrian, A. Meinelt, R. Müller, G. Saemann-Ischenko, and R.L. Johnson
Physica **135B**, 313 (1985)
41. **Superconducting Critical Temperature T_c and Electronic Structure of Pseudoternary $Y(\text{Rh}_{1-x}\text{Ru}_x)_4\text{B}_4$ Studied by High-Resolution Photoelectron Spectroscopy** 1985
R. Knauf, H. Adrian, A. Meinelt, and R.L. Johnson
Phys. Rev. B **32**, 2895 (1985)
40. **Influence of Atomic Order on Superconductivity and Electronic Properties of Chevrel-Phase Compounds** 1984
H. Adrian
in *Proc. of the Autumn Meeting of the Jap. Physical Society* (Toyama, Japan, 1984) p. 322
39. **Nature of the Magnetic Order in HoRu_4B_4 below 4.2 K** 1984
R. Müller, A. Thomä, Th. Theiler, H. Adrian, G. Saemann-Ischenko, and M. Steiner
in *Proceedings of the 17th Intern. Conf. on Low Temperature Physics*, LT17, edited by U. Eckern, A. Schmid, W. Weber, and H. Wühl (North-Holland, Amsterdam, 1984) p. 99
38. **Comparison of Irradiation Effects in Liquid Quenched and Cold Condensed $(\text{Mo}_{0.6}\text{Ru}_{0.4})_{82}\text{B}_{18}$** 1984
L. Söldner, H. Adrian, R. Behrle, K. Söldner, G. Saemann-Ischenko, and J. Wecker
in *Proceedings of the 17th Intern. Conf. on Low Temperature Physics*, LT17, edited by U. Eckern, A. Schmid, W. Weber, and H. Wühl (North-Holland, Amsterdam, 1984) p. 131
37. **Dependence of Hall-Effect, Superconductivity and Electrical Resistivity on Atomic Order in Chevrel-Phase PbMo_6S_8 Films** 1984
H. Adrian, G. Holter, L. Söldner, and G. Saemann-Ischenko
in *Proceedings of the 17th Intern. Conf. on Low Temperature Physics*, LT17, edited by U. Eckern, A. Schmid, W. Weber, and H. Wühl (North-Holland, Amsterdam, 1984) p. 349
36. **Superconductivity in Hydrogenated and Disordered $\text{A15 Nb}_3\text{Ge}$** 1984
C. Nölscher, H. Adrian, R. Müller, W. Schauer, F. Wüchner, and G. Saemann-Ischenko
in *Proceedings of the 17th Intern. Conf. on Low Temperature Physics*, LT17, edited by U. Eckern, A. Schmid, W. Weber, and H. Wühl (North-Holland, Amsterdam, 1984) p. 491
35. **Phase-Diagram, Magnetization and Critical Fields of the Pseudoternary bct System $\text{Ho}(\text{Rh}_{1-x}\text{Ru}_x)_4\text{B}_4$** 1984
H. Adrian, A. Thomä, B. Kandolf, and G. Saemann-Ischenko
in *Proceedings of the 17th Intern. Conf. on Low Temperature Physics*, LT17, edited by U. Eckern, A. Schmid, W. Weber, and H. Wühl (North-Holland, Amsterdam, 1984) p. 95
34. **High-Resolution Photoemission Studies on the Pseudoternary pt $\text{Ho}(\text{Rh}_{1-x}\text{Ir}_x)_4\text{B}_4$ System** 1984
R. Knauf, R. Müller, H. Adrian, G. Saemann-Ischenko, and R.L. Johnson
in *Proceedings of the 17th Intern. Conf. on Low Temperature Physics*, LT17, edited by U. Eckern, A. Schmid, W. Weber, and H. Wühl (North-Holland, Amsterdam, 1984) p. 97
33. **Phase Diagram and High-Resolution Photoemission Study of the Superconducting and Magnetic Body-Centered-Tetragonal $\text{Ho}(\text{Rh}_{1-x}\text{Ru}_x)_4\text{B}_4$ System** 1984
R. Knauf, A. Thomä, H. Adrian, and R.L. Johnson
Phys. Rev. B **29**, 2477 (1984)
32. **Inelastic Electron Tunneling as Vibrational Spectroscopy of Adsorbed Organic Molecules after 3 MeV Proton Irradiation at 4.2K and 293K** 1984
R. Behrle, W. Rösner, H. Adrian, G. Saemann-Ischenko, F. Bömmel, and L. Söldner
Nucl. Instr. Meth. B **2**, 725 (1984)
31. **Experimental Evidence of Low Frequency Defect Vibrations in the fcc Metal Lead Observed by Superconducting Tunneling** 1984
H. Adrian and G. Saemann-Ischenko
Solid State Commun. **51**, 305 (1984)

30. **Ion Irradiation of Chevrel-Phase BaMo_6S_8 Films** 1984
H. Adrian and F. Pfirsch
Phys. Rev. **B 29**, 1447 (1984)
29. **Influence of Isochronal Annealing on Superconducting Properties, Electrical Resistivity, and Irradiation Behavior of Amorphous $(\text{Mo}_{0.6}\text{Ru}_{0.4})_{82}\text{B}_{18}$ Films** 1983
L. Söldner, H. Adrian, and G. Saemann-Ischenko
Appl. Phys. Lett. **43**, 778 (1983)
28. **Effects of Preparation Conditions and Low Temperature Ion Irradiation on Superconductivity and Electrical Resistivity of Amorphous $(\text{Mo}_{0.6}\text{Ru}_{0.4})_{1-x}\text{B}_x$ Films** 1983
L. Söldner, H. Adrian, J. Bieger, K. Brenner, C. Nölscher, and G. Saemann-Ischenko
J. Appl. Phys. **54**, 722 (1983)
27. **Preparation and Effects of Irradiation-Induced Disorder in PbMo_6S_8 Thin Films** 1983
G. Hertel, H. Adrian, J. Bieger, C. Nölscher, L. Söldner, and G. Saemann-Ischenko
Phys. Rev. **B 27**, 212 (1983)
26. **Effects of Irradiation Induced Disorder on Superconductivity and Electrical Resistivity of AgMo_6S_8 Thin Films** 1982
H. Adrian, F. Pfirsch, R. Behrle, and G. Saemann-Ischenko
in *Superconductivity in d- and f-Band Metals 1982*, edited by W. Buckel and W. Weber (Kernforschungszentrum Karlsruhe GmbH, Karlsruhe, 1982) p. 193
25. **Superconducting Properties and Resistivity of Amorphous $(\text{Mo}_{0.6}\text{Ru}_{0.4})_{1-x}\text{B}_x$ and $\text{Nb}_{1-x}\text{Si}_x$ Films and Effects of Radiation Damage at Low Temperatures** 1982
L. Söldner, J. Bieger, H. Adrian, K. Brenner, C. Nölscher, and G. Saemann-Ischenko
in *Superconductivity in d- and f-Band Metals 1982*, edited by W. Buckel and W. Weber (Kernforschungszentrum Karlsruhe GmbH, Karlsruhe, 1982) p. 355
24. **Comparison of Disorder Effects in Different A15 Compound Families** 1982
M. Lehmann, C. Nölscher, H. Adrian, J. Bieger, L. Söldner, and G. Saemann-Ischenko
in *Superconductivity in d- and f-Band Metals 1982*, edited by W. Buckel and W. Weber (Kernforschungszentrum Karlsruhe GmbH, Karlsruhe, 1982) p. 107
23. **Superconductivity and Magnetism in the Pseudoternary System $\text{Y}_{1-x}\text{Gd}_x\text{Rh}_4\text{B}_4$** 1982
H. Adrian, R. Müller, and R. Behrle
Phys. Rev. **B 26**, 2450 (1982)
22. **Low Temperature Magnetization of Ternary Reentrant Magnetic Superconductors: $(\text{Er}_{1-x}\text{Ho}_x)\text{Rh}_4\text{B}_4$** 1981
H. Adrian, K. Müller, and G. Saemann-Ischenko
in *Proceedings of the International Conference on Ternary Superconductors*, edited by G.K. Shenoy, B.D. Dunlap, and F.Y. Fradin (Elsevier, New York, 1981) p. 107
21. **Superconductivity and Electrical Resistivity of PbMo_6S_8 Thin Films after Low Temperature Ion Irradiation** 1981
H. Adrian, G. Hertel, J. Bieger, G. Saemann-Ischenko, and L. Söldner
Physica **107B**, 647 (1981)
20. **Preparation and Superconducting Properties of PbMo_6S_8 Thin Films** 1981
G. Hertel, H. Adrian, C. Nölscher, G. Saemann-Ischenko, and L. Söldner
Physica **107B**, 653 (1981)
19. **Phase Diagram and Low Temperature Magnetization of $\text{Y}_{1-x}\text{Gd}_x\text{Rh}_4\text{B}_4$** 1981
H. Adrian, R. Müller, R. Behrle, G. Saemann-Ischenko, and G. Voit
Physica **108B**, 1281 (1981)
18. **Disordered A15 Compounds from the Matthias-Valley: Mo_3Ge and V_3Si** 1981
M. Lehmann, G. Saemann-Ischenko, H. Adrian, and C. Nölscher
Physica **107B**, 473 (1981)

17. **Hydrogenated and Irradiated A15 Nb₃Sn Layers . Preparation, Rutherford Scattering Analysis, Resistivity and Superconductivity** 1981
C. Nölscher, P. Müller, H. Adrian, M. Lehmann, and G. Saemann-Ischenko
Z. Physik **B 41**, 291 (1981)
16. **Properties of Disordered Mo₃Ge with A15 Structure** 1981
M. Lehmann, H. Adrian, J. Bieger, P. Müller, C. Nölscher, G. Saemann-Ischenko, and E.L. Haase
Solid State Commun. **39**, 145 (1981)
15. **Transport Properties, Electronic Density of States and T_c in Disordered A15 Compounds** 1980
P. Müller, G. Ischenko, H. Adrian, J. Bieger, M. Lehmann, and E.L. Haase
in *Superconductivity in d- and f-Band Metals*, edited by H. Suhl and B. Maple (Academic Press, New York, 1980) p. 369
14. **Changes of Superconducting Properties and Electrical Resistivity of Amorphous Compounds by Means of Low Temperature Heavy Ion Irradiation** 1980
J. Bieger, G. Saemann-Ischenko, H. Adrian, M. Lehmann, P. Müller, L. Söldner, E.L. Haase, and C.C. Tsuei
in *Liquid and Amorphous Metals*, edited by E. Lüscher and H. Coufal (Sijthoff and Nordhoff, Alphen aan de Rijn, 1980) p. 665
13. **Superconductivity and Electrical Resistivity of Amorphous Nb₇₅Ge₂₅ and Nb₈₀Si₂₀ after Heavy Ion Irradiation at Low Temperature** 1980
J. Bieger, H. Adrian, P. Müller, G. Saemann-Ischenko, and E.L. Haase
Solid State Commun. **36**, 979 (1980)
12. **Magnetization Measurements of Reentrant Ferromagnetic Superconductors: The Pseudoternary System (Er_{1-x}Ho_x)Rh₄B₄** 1980
H. Adrian, K. Müller, and G. Saemann-Ischenko
Phys. Rev. **B 22**, 4424 (1980)
11. **Irradiation of Copper with 25 MeV Oxygen Ions -- Defect Production and Annealing** 1980
M. Lehmann, G. Saemann-Ischenko, H. Adrian, J. Bieger, and P. Müller
Rad. Effects **46**, 227 (1980)
10. **Superconducting Critical Temperature in Disordered Tin and Lead** 1979
S. Klaumünzer, G. Ischenko, H. Adrian, and H. Neumüller
J. Low Temp. Phys. **36**, 89 (1979)
9. **Low Temperature Irradiation of Nb₃Sn and V₃Si with High Energy Sulfur Ions** 1978
H. Adrian, G. Ischenko, M. Lehmann, P. Müller, H. Braun, and G. Linker
J. Less Common Metals **62**, 99 (1978)
8. **Nb₃Ge and Effects of Heavy Ion Irradiation and Thermal Recovery on T_c, ρ and dH_{c2}/dT(T=T_c)** 1978
P. Müller, H. Adrian, G. Ischenko, and H. Braun
J. Phys. (Paris) **C6**, 387 (1978)
7. **Superconductivity of Nb₃Sn, Nb, V, Pb, and Sn after Low Temperature Irradiation with 25 MeV Oxygen Ions** 1978
G. Ischenko, S. Klaumünzer, H. Neumüller, H. Adrian, and P. Müller
J. Nucl. Mat. **72**, 212 (1978)
6. **Enhancement of the Superconducting Critical Temperature T_c of Niobium by Radiation Damage** 1977
H. Neumüller, M. Lehmann, G. Ischenko, S. Klaumünzer, and H. Adrian
Phys. Lett. **62A**, 446 (1977)
5. **Superconducting and Normal State Properties of Ag_{1-x}Sn_{1+x}Se_{2-y}** 1977
D.C. Johnston and H. Adrian
J. Phys. Chem. Solids **38**, 355 (1977)

- 4. Heavy-Ion-Induced Defect Production at Low Temperature in Superconducting Nb₃Sn and Effects of Saturation**

G. Ischenko, H. Adrian, S. Klaumünzer, M. Lehmann, P. Müller, H. Neumüller, and W. Szymczak
 Phys. Rev. Lett. **39**, 43 (1977)

1977
- 3. Superconductivity in Rare Earth Molybdenum Selenides**

R.N. Shelton, R.W. McCallum, and H. Adrian
 Phys. Lett. **56A**, 213 (1976)

1976
- 2. Measurement of the Pressure Dependence of T_c for Superconducting Spinel Compounds**

R.N. Shelton, D.C. Johnston, and H. Adrian
 Solid State Commun. **20**, 1077 (1976)

1976
- 1. High Disorder Effects in Superconducting Nb₃Sn after Heavy Ion Irradiation at Low Temperature**

B. Besslein, G. Ischenko, S. Klaumünzer, P. Müller, H. Neumüller, K. Schmelz, and H. Adrian
 Phys. Lett. **53A**, 49 (1975)

1975