

## Publikationen Hermann Adrian

03.05.05

- |      |  |      |
|------|--|------|
| 319. | <b>Magnetic and Magnetoelastic Properties of Epitaxial (211)-oriented RFe<sub>2</sub> (R=Dy, Tb) Thin Films</b><br>J. Oster, L. Wiehl, H. Adrian, M. Huth<br>Journal of Magnetism and Magnetic Materials 292 (2005) 164-177  | 2005 |
| 318. | <b>Crystallography, Morphology, and Magnetic Properties of Fe Nanostructures on faceted <math>\alpha</math>-Al<sub>2</sub>O<sub>3</sub> <i>m</i> Plane</b><br>J. Oster, M. Kallmayer, L. Wiehl, H.J. Elmers, and H. Adrian<br>F. Porrati and M. Huth<br>Journal of Applied Physics, <b>97</b> , 1 (2005)   | 2005 |
| 317. | <b>Thin Epitaxial Films of the Heusler Compound Co<sub>2</sub>Cr<sub>0.6</sub>Fe<sub>0.4</sub>Al</b><br>G. Jakob, F. Casper, V. Beaumont, S. Falk, H.-J. Elmers, C. Felser, H. Adrian<br>Journal of Magnetism and Magnetic Materials 290-291 (2005) 1104-1107  | 2005 |
| 316. | <b>How Electrons Scatter: Verifying the Drude Response</b><br>Marc Scheffler, Martin Dressel, Martin Jourdan, Hermann Adrian<br>Submitted to Nature Dez. 04  | 2004 |
| 315. | <b>Optical Properties of YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-<math>\delta</math></sub> and PrBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-<math>\delta</math></sub> films: High-energy Correlations and Metallicity</b><br>J. Bäckström, D. Budelmann, R. Rauer, and M. Rübhausen<br>H. Rodríguez and H. Adrian<br>Physical Review B <b>70</b> , 174502 (2004) | 2004 |
| 314. | <b>Direct Observation of Drude Behavior in the Heavy-Fermion UPd<sub>2</sub>Al<sub>3</sub> by Broadband Microwave Spectroscopy</b><br>Marc Scheffler, Martin Dressel, Martin Jourdan, Hermann Adrian<br>Submitted to Physica B   | 2004 |
| 313. | <b>Preparation of Superconducting Thin Films of UNi<sub>2</sub>Al<sub>3</sub></b><br>A. Zakharov, M. Jourdan, M. Foerster, H. Adrian<br>Submitted to Physica B   | 2004 |
| 312. | <b>Growth of Fe Nanostructures</b><br>J. Oster, M. Huth, L. Wiehl, H. Adrian<br>Journal of Magnetism and Magnetic Materials 272-276 (2004) 1588-1589   | 2004 |
| 311. | <b>Transport Anisotropy and Bc<sub>2</sub> ( • , T) of UNi<sub>2</sub>Al<sub>3</sub> Thin Films</b><br>M. Jourdan, A. Zakharov, H. Schneider, H. Adrian<br>Submitted to Physica B  | 2004 |
| 310. | <b>Magnetic Tunneling Junctions with the Heusler Compound Co<sub>2</sub>Cr<sub>0.6</sub>Fe<sub>0.4</sub>Al</b><br>A. Conca, S. Falk, G. Jakob, M. Jourdan, H. Adrian<br>Journal of Magnetism and Magnetic Materials 0 (2004) 1-0   | 2004 |
| 309. | <b>Evidence for Multiband Superconductivity in the Heavy Fermion Compound Uni<sub>2</sub>Al<sub>3</sub></b><br>M. Jourdan, A. Zakharov, M. Foerster, and H. Adrian<br>Physical Review Letters, <b>Vol 93, No. 9</b> , (2004) 097001-1 - 097001-4   | 2004 |
| 308. | <b>Normal and Mixed State Hall Effect in (Hg<sub>0.9</sub>Re<sub>0.1</sub>)Ba<sub>2</sub>CaCu<sub>2</sub>O<sub>6+<math>\delta</math></sub> fully Textured HTS's Thin Films</b><br>A. Salem, G. Jakob, H. Adrian<br>Physica C, <b>415</b> , 62-68 (2004)  | 2004 |
| 307. | <b>Preparation, Scaling Behavior of Activation Energy, Hall Effect, and Flux-Flow Anisotropy of (Hg<sub>0.9</sub>Re<sub>0.1</sub>)Ba<sub>2</sub>CaCu<sub>2</sub>O<sub>6+<math>\delta</math></sub> HTS Thin Films</b><br>A. Salem, G. Jakob, and H. Adrian<br>Physica C <b>402</b> (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<sub>0.9</sub>Re<sub>0.1</sub>)Ba<sub>2</sub>CaCu<sub>2</sub>O<sub>6+δ</sub> 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 Uni<sub>2</sub>Al<sub>3</sub>** 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 YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-δ</sub> / PrBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-δ</sub> 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<sub>3-δ</sub>** 2003  
M. Jourdan, N. Blümer, and H. Adrian  
European Physical Journal B, **33**, pp. 25-30 (2003)
300. **Possibility of unconventional Superconductivity of SrTiO<sub>3-δ</sub>** 2003  
M. Jourdan, H. Adrian  
Physica C, **388-389**, 509-510 (2003)
299. **Resistivity and Irreversibility Line of (Hg<sub>0.9</sub>Re<sub>0.1</sub>)Ba<sub>2</sub>CaCu<sub>2</sub>O<sub>6+δ</sub> 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 UPd<sub>2</sub>Al<sub>3</sub>** 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 UPd<sub>2</sub>Al<sub>3</sub> and UPt<sub>3</sub>** 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-Al<sub>2</sub>O<sub>3</sub>(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 YBa<sub>2</sub>Cu<sub>3</sub>O<sub>6.7</sub> 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  $\text{UPd}_2\text{Al}_3$**  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  $\text{UPd}_2\text{Al}_3$**  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 UPd<sub>2</sub>Al<sub>3</sub>** 2000  
M. Huth, M. Jourdan, and H. Adrian  
Europ. Phys. J. **B13**, 695-699 (2000)
276. **BaZrO<sub>3</sub> as a Buffer Layer for High T<sub>c</sub> 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. **Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8</sub> 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 YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-δ</sub>/PrBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-δ</sub> 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 BaTiO<sub>3</sub> Grown on YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-δ</sub> 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 YBa<sub>2</sub>Cu<sub>3</sub>O<sub>6+δ</sub>** 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<sub>0.67</sub>Ca<sub>0.33</sub>MnO<sub>3</sub> 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 YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-δ</sub>** 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<sub>0.67</sub>Ca<sub>0.33</sub>MnO<sub>3</sub> 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 UPd<sub>2</sub>Al<sub>3</sub>** 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. Goncharov  
Europhys. Lett. **48**, 73-78 (1999)
264. **Structural and Electrical Characterization of SrBi<sub>2</sub>Nb<sub>2</sub>O<sub>9</sub> Thin Films Deposited on YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-δ</sub> and Nb Doped SrTiO<sub>3</sub>** 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  $\text{UPd}_2\text{Al}_3$  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  $\text{UPd}_2\text{Al}_3$  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  $\text{UPd}_2\text{Al}_3$  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  $\text{UPd}_2\text{Al}_3$**  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  
6<sup>th</sup> *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  
6<sup>th</sup> *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. Psyharis, D. Niarchos, P. Haibach, U. Frey, and H. Adrian  
*Supercond. Science and Techn.* **10**, 712-716 (1997)
234. **Probing the Superconducting State of  $\text{UPd}_2\text{Al}_3$  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)  $\text{SrTiO}_3$  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  $\text{UPd}_2\text{Al}_3$  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  $\text{UPd}_2\text{Al}_3$  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<sub>c</sub> YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub> Films** 1996  
T.S. Orlova, B.I. Smirnov, V.V. Shpeizman, G. Adrian, and H. Adrian  
Phys. Solid State **38**, 134 (1996)
- 221. Bi<sub>2</sub>Sr<sub>2</sub>Ca<sub>2</sub>Cu<sub>3</sub>O<sub>10</sub> 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 UPt<sub>3</sub> 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 UPd<sub>2</sub>Al<sub>3</sub> 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 Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8</sub> 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 Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8</sub> 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 YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub>** 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 UPt<sub>3</sub> 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 YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub>/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 Bi<sub>2</sub>Sr<sub>2</sub>Ca<sub>2</sub>Cu<sub>3</sub>O<sub>10</sub> 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 YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub>/PrBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub> 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 YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub>/PrBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub> Superlattices** 1996  
A. Schattke, G. Jakob, J.C. Martinez, and H. Adrian  
3<sup>rd</sup> Workshop on Digital Applications, Josephson Junctions and 3-Terminal Devices, Twente, Netherlands (1996) p. 48-52
- 210. Bi<sub>2</sub>Sr<sub>2</sub>Ca<sub>2</sub>Cu<sub>3</sub>O<sub>10</sub> Based Bicrystal Grain Boundary Josephson Junctions and SQUIDs** 1996  
U. Frey, H. Meffert, P. Haibach, K. Üstüner, G. Jakob, and H. Adrian  
3<sup>rd</sup> 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  $\text{UPd}_2\text{Al}_3$  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  $\text{UPd}_2\text{Al}_3$ -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  $\text{UPd}_2\text{Al}_3$  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  $\text{UPd}_2\text{Al}_3$  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. Hadish, 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 7<sup>th</sup> 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 7<sup>th</sup> 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 7<sup>th</sup> 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  $\text{YBa}_2\text{Cu}_3\text{O}_7/\text{PrBa}_2\text{Cu}_3\text{O}_7$  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.  **$\text{YBa}_2\text{Cu}_3\text{O}_7$  Thin Films on Sapphire with Buffer Layers of  $\text{CeO}_2$**  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  $\text{YBa}_2\text{Cu}_3\text{O}_7/\text{PrBa}_2\text{Cu}_3\text{O}_7$  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  $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$  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  $\text{YBa}_2\text{Cu}_3\text{O}_7/\text{PrBa}_2\text{Cu}_3\text{O}_7$  Superlattices** 1994  
 R. Li, R. Feile, G. Jakob, Th. Hahn, and H. Adrian  
*J. of Superconductivity* **7**, 213 (1994)
151. **Characterization of Epitaxial  $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$  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  $\text{YBa}_2\text{Cu}_3\text{O}_7/\text{PrBa}_2\text{Cu}_3\text{O}_7$  Superlattices** 1994  
 G. Jakob, Th. Hahn, Th. Kluge, and H. Adrian  
*J. of Superconductivity* **7**, 197 (1994)
149. **Preparation of  $\text{UPd}_2\text{Al}_3$  Films** 1994  
 M. Huth, A. Kaldowski, and H. Adrian  
*Physica B* **199&200**, 116 (1994)
148. **Comparison of Superconducting Transport Properties of  $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$  and  $\text{YBa}_2\text{Cu}_3\text{O}_7$  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  $\text{YBa}_2\text{Cu}_3\text{O}_7/\text{Y}_{1-x}\text{Pr}_x\text{Ba}_2\text{Cu}_3\text{O}_7/\text{YBa}_2\text{Cu}_3\text{O}_7$  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. Metlushko, 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. **Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8</sub> 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 Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8</sub> 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 Bi<sub>2</sub>Sr<sub>2</sub>Ca<sub>2</sub>Cu<sub>3</sub>O<sub>10</sub> 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 YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub> 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 YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub> 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. **YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub> 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 YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub>/Y<sub>1-x</sub>Pr<sub>x</sub>Ba<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub>/YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub> 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 YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub>/Y<sub>1-x</sub>Pr<sub>x</sub>Ba<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub>/YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub> 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 Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8</sub> 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 Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8</sub> Films with T<sub>c</sub> 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 UPd<sub>2</sub>Al<sub>3</sub>** 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  $\text{CeO}_2$  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  $(\text{Y}/\text{Pr})\text{Ba}_2\text{Cu}_3\text{O}_7$  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 YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub>/PrBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub> 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 YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub>/PrBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub> 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 YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub>** 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 Pr<sup>3+</sup> 4f-4f Transitions in PrBa<sub>2</sub>Cu<sub>3</sub>O<sub>6</sub>** 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 YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub>-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 YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub>/PrBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub> 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 YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub> and YBa<sub>2</sub>(Cu<sub>1-x</sub>TM<sub>x</sub>)<sub>3</sub>O<sub>7</sub> with TM = 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 YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub> Films and YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub>/PrBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub> 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 YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub>/PrBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub>-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<sub>c</sub> 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 YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub> 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 Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8</sub> 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  $335\text{ cm}^{-1}$  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  $\text{SrTiO}_3$ ,  $\text{NdAlCaO}_4$ , and  $\text{LaGaO}_3$  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<sub>c</sub>-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<sub>c</sub>-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 YBa<sub>2</sub>(Cu<sub>1-x</sub>Ni<sub>x</sub>)<sub>3</sub>O<sub>7</sub>** 1988  
H. Adrian, O. Bauer, H. Niederhofer, G. Adrian, and S. Nielsen  
Physica **C 153**, 928 (1988)
64. **Preparation of Superconducting Thin Films of YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub> 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 YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub> 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 CeCu<sub>2</sub>Si<sub>2</sub>, CeCu<sub>6</sub> and UPt<sub>3</sub>** 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<sub>c</sub>-Superconductor YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub>** 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 CeCu<sub>2</sub>Si<sub>2</sub> and CeCu<sub>6</sub>** 1987  
G. Adrian and H. Adrian  
Physica **148B**, 26 (1987)
58. **Superconductivity and Magnetic Interactions in the Pseudoternary bct System Ho(Rh<sub>1-x</sub>Ru<sub>x</sub>)<sub>4</sub>B<sub>4</sub>** 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<sub>1-x</sub>TM<sub>x</sub>)<sub>4</sub>B<sub>4</sub> 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  $\text{PbMo}_6\text{S}_8$  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  $\text{CeCu}_2\text{Si}_2$  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  $\text{CeCu}_2\text{Si}_2$**  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  $\text{CeCu}_2\text{Si}_2$**  1986  
G. Holter and H. Adrian  
Solid State Commun. **58**, 45 (1986)
45. **Annealing of Heavy Ion Irradiated  $\text{Nb}_3\text{Ge}$  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  $\text{HoRu}_4\text{B}_4$  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  $\text{PbMo}_6\text{S}_8$  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<sub>6</sub>S<sub>8</sub> 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 (Mo<sub>0.6</sub>Ru<sub>0.4</sub>)<sub>82</sub>B<sub>18</sub> 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 (Mo<sub>0.6</sub>Ru<sub>0.4</sub>)<sub>1-x</sub>B<sub>x</sub> 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<sub>6</sub>S<sub>8</sub> 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<sub>6</sub>S<sub>8</sub> 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 (Mo<sub>0.6</sub>Ru<sub>0.4</sub>)<sub>1-x</sub>B<sub>x</sub> and Nb<sub>1-x</sub>Si<sub>x</sub> 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 Y<sub>1-x</sub>Gd<sub>x</sub>Rh<sub>4</sub>B<sub>4</sub>** 1982  
H. Adrian, R. Müller, and R. Behrle  
Phys. Rev. **B 26**, 2450 (1982)
- 22. Low Temperature Magnetization of Ternary Reentrant Magnetic Superconductors: (Er<sub>1-x</sub>Ho<sub>x</sub>)Rh<sub>4</sub>B<sub>4</sub>** 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<sub>6</sub>S<sub>8</sub> 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<sub>6</sub>S<sub>8</sub> 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 Y<sub>1-x</sub>Gd<sub>x</sub>Rh<sub>4</sub>B<sub>4</sub>** 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<sub>3</sub>Ge and V<sub>3</sub>Si** 1981  
M. Lehmann, G. Saemann-Ischenko, H. Adrian, and C. Nölscher  
Physica **107B**, 473 (1981)

17. **Hydrogenated and Irradiated A15 Nb<sub>3</sub>Sn 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 Mo<sub>3</sub>Ge 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<sub>c</sub> 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 Nb<sub>75</sub>Ge<sub>25</sub> and Nb<sub>80</sub>Si<sub>20</sub> 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<sub>1-x</sub>Ho<sub>x</sub>)Rh<sub>4</sub>B<sub>4</sub>** 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 Nb<sub>3</sub>Sn and V<sub>3</sub>Si 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. **Nb<sub>3</sub>Ge and Effects of Heavy Ion Irradiation and Thermal Recovery on T<sub>c</sub>, ρ and dH<sub>c2</sub>/dT(T=T<sub>c</sub>)** 1978  
P. Müller, H. Adrian, G. Ischenko, and H. Braun  
*J. Phys. (Paris)* **C6**, 387 (1978)
7. **Superconductivity of Nb<sub>3</sub>Sn, 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<sub>c</sub> 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<sub>1-x</sub>Sn<sub>1+x</sub>Se<sub>2-y</sub>** 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 Nb<sub>3</sub>Sn and Effects of Saturation** 1977  
G. Ischenko, H. Adrian, S. Klaumünzer, M. Lehmann, P. Müller, H. Neumüller, and W. Szymczak  
Phys. Rev. Lett. **39**, 43 (1977)
- 3. Superconductivity in Rare Earth Molybdenum Selenides** 1976  
R.N. Shelton, R.W. McCallum, and H. Adrian  
Phys. Lett. **56A**, 213 (1976)
- 2. Measurement of the Pressure Dependence of T<sub>c</sub> for Superconducting Spinel Compounds** 1976  
R.N. Shelton, D.C. Johnston, and H. Adrian  
Solid State Commun. **20**, 1077 (1976)
- 1. High Disorder Effects in Superconducting Nb<sub>3</sub>Sn after Heavy Ion Irradiation at Low Temperature** 1975  
B. Besslein, G. Ischenko, S. Klaumünzer, P. Müller, H. Neumüller, K. Schmelz, and H. Adrian  
Phys. Lett. **53A**, 49 (1975)