

REFERENCES

REFERENCES

- 1- H.K. Onnes, *leiden Comm.* 120b,122b,124c (1911).
- 2- W. Meissner and R. Ochsenfeld, *Naturwiss.* 21, 787 (1933).
- 3- J.G. Bednorz and K.A. Muller, *Z. Phys. B* 64, 189 (1986).
- 4- M.K. Wu, J.R. Ashburn, C.J. Torng, P.H. Hor, R.L. Meng, L. Gao, Z.J. Huang, Y.Q. Wang and C.W. Chu, *Phys. Rev. Lett.* 58, 908 (1987).
- 5- H. Maeda, Y. Tanaka, M. Fukutomi and T. Asano, *Jpn. J. Appl. Phys.* 27, L209 (1988).
- 6- Z. Sheng and A. Hermann, *Nature* 332,55 (1989).
- 7- A. Schilling, *Nature* 363,56 (1993).
- 8- M. Nunez-Regueiro, *Science* 262,97 (1993).
- 9- C. Michel, M. Hevien, M.M. Borel, A. Grandin, F. Deslandes, J. Provost and B. Haveau, *Z. Phys. B* 68, 421 (1987).
- 10- J. Akimitsu, A. Yamazaki, H. Sawa and H. Fujuki, *Jpn. J. Appl. Phys.* 26, L2080 (1987).
- 11- J.M. Tarascon, Y. Le Page, P. Barboux, B.G. Bagley, L.H. Greene, W.R. Mckinnon, G.W. Hull, M. Giroud and D.M. Hwang, *Phys. Rev. B* 37, 9382 (1988).
- 12- S. Adachi, O. Inoue and S. Kawashima, *Jpn. J. Appl. Phys.* 27,L344 (1988).
- 13- H. Nobumasa, K. Shimizu, Y. Kitano and T. Kawai, *Jpn. J. Appl. Phys.* 27, L846 (1988).
- 14- B. Aurivillius, *Arkiv Kemi.* 1, 463 (1949).

- 15- Y. Bando, T. Kijima, Y. Kitami, J. Tanaka, F. Izumi and M. Yokoyama, *Jpn. J. Appl. Phys.* 27, L358 (1988).
- 16- Y. Matsui, H. Maeda, Y. Tanaka and S. Horiuchi, *Jpn. J. Appl. Phys.* 27, L361 (1988).
- 17- E. Takayama-Muromachi, Y. Uchida, A. Ono, F. Izumi, M. Onoda, Y. Matsui, K. Kosuda, S. Takekawa and K. Kato, *Jpn. J. Appl. Phys.* 27, L365 (1988).
- 18- T. Kijima, J. Tanaka, Y. Bando, M. Onoda and F. Izumi, *Jpn. J. Appl. Phys.* 27, L369 (1988).
- 19- H. Takagi, H. Eisaki, S. Uchida, A. Maeda, S. Tajima, K. Uchinokura and S. Tanaka, *Nature* 332, 236 (1988).
- 20- Y. Hidaka, M. Oda, M. Suzuki, Y. Maeda, Y. Enomoto and T. Murakami, *Jpn. J. Appl. Phys.* 27, L538 (1988).
- 21- M. Subramanian, C. Torardi, J. Calabrese, J. Gopalakrishnan, K. Morrissey, T. Askew, R. Flippen, U. Chowdhry and A. Sleight, *Science*, 239, 1015 (1988).
- 22- H. Koinuma, M. Kawasaki, S. Nagata, K. Takeuchi and K. Fueki, *Jpn. J. Appl. Phys.* 27, L376 (1988).
- 23- N. Chatterjee, C.D. Mukherjee, R. Ranganathan, A. Chakravarti and A.K. Raychaudhuri, *Physica C* 161, 589 (1989).
- 24- H. Kuroda, M. Mukaida, M. Yamamoto and S. Miyazawa, *Jpn. J. Appl. Phys.* 27, L625 (1988).
- 25- K. Mori, Y. Isikawa, T. Ban, K. Sato and K. Rokudo, *Physica C*, 162-164, 923 (1989).
- 26- R. Cava, B. Batlogg, S. Sunshine, T. Siegrist, R. Fleming, K. Rabe, L. Schneemeyer, D. Murphy, R. Dover, P. Gallagher, S.

- Glarum, S. Nakahara, R. Farrow, J. Krajewski, S. Zahurak, J. Waszczak, J. Marshall, P. Marsk, L. Rupp, Jr., W. Peck and E. Rietman, *Physica C* 153-155, 560 (1988).
- 27- O. Pena, A. Dinia, C. Perrin, A. Perrin and M. Sergent, *Physica C*, 162-164, 1215 (1989).
- 28- X. Sun, W. Wu, X. Zhao, L. Zheng, G. Zhou, X. G. Li and Y. Zhang, *Physica C*, 279, 47 (1997).
- 29- M. Takano, J. Takada, K. Oda, H. Kitaguchi, Y. Miura, Y. Ikeda, Y. Tomii and H. Mazaki, *Jpn J. Appl. Phys.* 27, L1041 (1988).
- 30- Y. Ikeda, M. Takano, Z. Hiroi, K. Oda, H. Kitaguchi, J. Takeda, Y. Miura, Y. Takeda, O. Yamamoto, and H. Mazaki, *Jpn. J. Appl. Phys.* 27, L 2067 (1988).
- 31- Y. Takeda, R. Kanno, F. Tanigawa, O. Yamamoto, Y. Ikeda and M. Takano, *Physica C* 159, 789 (1989).
- 32- I. Tang, K. Eaiprasertsak, R. Chitaree and P. winotai, *Physica C* 167, 491 (1990).
- 33- H. Imao, S. Kishida and H. Tokutaka, *Physica C* 235-240, 475 (1994).
- 34- Y. Yamada and S. Murase, *Jap. J. Appl. Phys.* 27, L 996 (1988).
- 35- S. Kambe, T. Matsuoka, M. Kawai and M. Takahasi, *Physica C* 165, 25 (1990).
- 36- H. Liu, S. Dou, N. Savvides, J. Zhou, N. Tan, A. Bourdillon, M. Kviz and C. Sorrell, *Physica C* 157, 93 (1989).
- 37- J. Jao, L. Chang, H. Horing and H. Yang, *Physica C* 162-164, 915 (1989).

- 38- K. Stephens, D. Robinson, A. Alvanipour, W. Hinton and A. Morrobel-Sosa, *Physica C* 168, 351 (1990).
- 39- M. Nakao, H. Kuwahara, R. Yuasa, H. Mukaida and A. Mizukami, *Jpn. J. Appl. Phys.* 27, L 378 (1988).
- 40- H. Adachi, Y. Ichikawa, K. Setsune, S. Hatta, K. Hirochi and K. Wasa, *Jpn. J. appl. Phys.* 27, L 643 (1988).
- 41- H. Kang, R. Kampwirth, K. Gray, S. Maesh and E. Huff, *Phys. Lett.* 128A, 102 (1988).
- 42- B. Sullivan, N. Osborne, W. Hardy, J. corolan, B. Wang, P. Michael and R. Persons, *Appl. Phys. Lett.* 52, 1992 (1988).
- 43- T. Matsushima, K. Hirochi, H. Adachi, K. Setsune and K. Wasa, *Jpn. J. Appl. Phys.* 28, L 97 (1989).
- 44- K. Kosima, K. Kuroda, M. Tanioku and K. Hamanaka, *Jpn. J. Appl. Phys.* 28, L 643 (1989).
- 45- H. Raffy, S. Labdi, A. Avures, J. Arabski, S. Metert and J. Perriere, *Physica C* 162-164, 613 (1989).
- 46- S. Fu, H. Sung, H. wang, D. Lee and H. Horng, *Physica. C* 162-164, 617 (1989).
- 47- R. Soltis, W. Donlon, S. Shinozaki, R. Ager, C. Peters, E. Logothetis, M. Aslam, L. Wenger, J. Chen and R. Nelson, *Physica C* 162-164, 649 (1989).
- 48- S. Miura, T. Yoshikate, T. Manako, Y. Miyasaka, N. Shohata and T. Satoh, *Appl. Phys. Lett.* 55, 1360 (1989).
- 49- S. Miura, T. Yoshikate, N. Shohata and T. Satoh, *Physica C* 165, 241 (1990).

- 50- K. Setsune, K. Hirochi, H. Adachi, Y. Ichikawa and wasa, Appl. Phys. Lett. 53, 600 (1988).
- 51- Y. Hakuraku, Y. Aridome and T. Oguski, Jpn. J. Appl. Phys. 27, L2091 (1988).
- 52- A. Tanaka, T. Machi, N. Kamekara and k. Niwa, Appl. Phys. Lett. 54, 1362 (1988).
- 53- Y. Kozono, T. Ohno, M. Hanazono and Y. Sugita, Jpn. J. Appl. Phys. 28, L646 (1989).
- 54- Y. Hakuraku, Y. Aridome, D. Miyagi, N.G. Suresha and T. Ogushi, Jpn. J. Appl. Phys. 28, L819 (1989).
- 55- H. Itozaki, H. Higaki, K. Harada, S. Tanaka, S. Yazu and K. Tada, Physica C 162-164, 367 (1989).
- 56- A. Tanaka, N. Kamehara and K. Niwa, Appl. Phys. Lett. 55, 1252 (1989).
- 57- Y. Mei, H.L. Luo and R. Hu, Appl. Phys. Lett. 56, 581 (1990).
- 58- K. Kuroda, K. Kojima, M. Tanioku, K. Yokoyama and K. Hamanaka, Jpn. J. Appl. Phys. 29, L291 (1990).
- 59- T. Brousse, G. Poullain, J.F. Hamet, H. Murray and B. Raveau, Physica C 170, 545 (1990).
- 60- N. Flower, M. Presland, P. Gilberd and R. Buckley, Physica C 165, 161 (1990).
- 61- A. Sakai, H. Umeki, A. Inoue and Y. Hidaka, Physica B 219& 220, 198 (1996).
- 62- D. Shimada, Y. Shiina, N. Miyakawa and N. Tsuda, Physica B 219&220, 192 (1996).

- 63- T. Komatsu, R. Sato, K. Imai, K. Matsusita and T. Yamashita, *Jpn. J. Appl. Phys.* 27, L550 (1988).
- 64- D.G. Hinks, L. Soderholm, D.W. Capone, B. Dabrowski, A.W. Mitchell and D. Shi, *Appl. Phys. Lett.* 53, 423 (1988).
- 65- V. Skumryev, R. Puzniak, N. Karpe, Z. Han, M. Pont, H. Medelius, D.X. Chen and K.V. Rao, *Physica C* 152, 315 (1988).
- 66- D. Shi, M. Blank, M. Patel, D.G. Hinks, A.W. Mitchell, K. Vandervoort and H. Claus, *Physica C* 156, 822 (1988).
- 67- K. Nassau, A.E. Miller and E.M. Gyorgy, *Mater. Res. Bull.* 24, 711 (1989).
- 68- A. Inoue, H. Kimura, K. Matsuzaki, A.P. Tsai and T. Masumoto, *Jpn. J. Appl. Phys.* 27, L941 (1988).
- 69- C.V. Tomy, R. Prasad, N.C. Soni, K. Achikary, A. Gulnar and S.K. Malik, *Physica C* 162-164, 925 (1989).
- 70- Y. Motoi, Y. Ikeda, H. UWE and T. Sakudo, *Physica C* 162-164, 929 (1989).
- 71- M. T. Malachevsky, D.A. Esparza, C.A. D'Ovidio, J. Malarria, E. Oliber and J. Fiscina, *Physica C* 162-164, 939 (1989).
- 72- T. Sheahen, *Introduction to high-temperature superconductivity* (Plenum Press, New York) 1994.
- 73- J. Beille, B. Chevalier, G. Demazeau, F. Deslandes, J. Etourneau, O. Laborde, C. Michel, P. Lejay, J. Provost, B. Raveau, A. Sulpice, J.L. Tholence and R. Tournier, *Physica B*, 146, 307 (1987).
- 74- J.L. Tholence, *Physica B*, 148, 353 (1987).

- 75- E. Schirber, B. Morosin, R.M. Merrill, P.F.Hlava, E.L. Venturini, J.F. Kwak, P.J. Nigrey, R.J. Baughman and D.S. Ginley, *Physica C*, 151, 121 (1988).
- 76- M. Tokumoto, Y. Nishihara, K. Oka and H. Unoki, *Nature* (London), 330, 48 (1987).
- 77- S.M. Fine, M. Greenblatt, S. Simuzu and S.A. Friedberg, *Phys. Rev. B*, 36, 5716 (1987).
- 78- J.R. Cava, R.B. Van Dover, B. Batlogg and E.A. Rietman, *Phys. Rev. Lett.* 58, 408 (1987).
- 79- J.M. Tarascon, L.H. Greene, W.R. MacKinnon, G.W. Hull and T.H. Geballe, *Science*, 235, 1373 (1987).
- 80- A. Wattiaux, J.C. Park, J.C. Grenier and M. Pouchard, *C.R. Acad. Sci. Paris*, 310, 1047 (1990).
- 81- J.C. Grenier, A. Wattiaux, N. Lagueyte, J.C. Park, E. Marquestaut, J. Etourneau and M. Pouchard, *Physica C*, 173, 139 (1991).
- 82- J.C. Grenier, A. Wattiaux, J.P. Doumerc, P. Dordor, L. Fournes, J.P. Chaminade and M. Pouchard, *J. Solid State Chem.* 96, 20 (1992).
- 83- J. Zhou, S. Sinha and J.B. Goodenough, *Phys. Rev. B*, 39, 12231 (1989).
- 84- J.D. Jorgensen, B. Dabrowski, S. Pei, D.G. Hinks, L. Soderholm, B. Morosin, J.E.Schirber, E.L. Venturini and D.S. Ginley, *Phys. Rev. B*, 38, 11337 (1988).
- 85- J.C. Park, P.V. Huong, M. Rey-Lafon, J.C. Grenier, A. Wattiaux and M. Pouchard, *Physica C*, 177, 487 (1991).

- 86- R. Suryanarayanan, O.Gorochov, M.S.R. Rao, L. Ouhammou, W. Paulus and G. Heger, *Physica C*, 185, 573 (1991).
- 87- F. Arrouy, A. Wattiaux, C. Cros. G. Demazeau, J.C. Grenier, M. Pouchard and J. Etourneau, *Physica C*, 175, 342 (1991).
- 88- J.C. Grenier, A. Wattiaux, A. Demourgues, M. Pouchard and P. Hagenmuller, *Solid State Ionics*, 63-65, 825 (1993).
- 89- F.C. Chou, D.C. Johnston, S.W. Cheong and P.C. Canfield, *Physica C*, 216, 66 (1993).
- 90- J.C. Grenier, N. Lagueyte, A.Wattiaux, J.P. Doumerc, P. Dordor, J. Etourneau, M. Pouchard, J.B. Goodenough and J.S. Zhou, *Physica C*, 202, 209 (1992).
- 91- P. Rudolf, W. Paulus and R. Schollhorn, *Adv. Mater.* 3, 438 (1991).
- 92- F.C. Chou, J.H. Cho and D.C. Johnston, *Physica C*, 197, 303 (1992).
- 93- S. Bhavaraju, j.F. Dicarlo, I. Yazdi, A.J. Jacobson, H.H. Feng, Z.G. Li and P.H. Hor, *Mat. Res. Bull.* 29, 735 (1994).
- 94- E. Takayama-Muromachi, T. Sasaki and Y. Matsui, *Physica C*, 207, 97 (1993).
- 95- E. Takayama-Muromachi and A. Navrotsky, *Physica C*, 218, 164 (1993).
- 96- G. Rajaram, R. Suryanarayanan, N. LeNagard, O.Gorochov, L. Ouhammou, W. Paulus and G. Heger, *Physica C*, 199, 139 (1992).

- 97- Y. Takeda, H. Tomita, Y. Mukai, A. Sato, N. Imanishi, O. Yamamoto, M. Azuma, Z. Hiroi and M. Takano, *Mat. Res. Bull.* 28, 775 (1993).
- 98- P.G. Radaelli, J.D. Jorgensen, A.J. Schultz, B.A. Hunter, J.L. Wagner, F.C. Chou and D.C. Johnston, *Phys. Rev. B*, 48, 499 (1993).
- 99- P.G. Radaelli, J.D. Jorgensen, R. Kleb, B.A. Hunter, F.C. Chou and D.C. Johnston, *Phys. Rev. B*, 49, 6239 (1994).
- 100- H.H. Feng, Z.G. Li, P.H. Hor, S. Bhavaraju, J.F. DiCarlo and A.J. Jacobson, *Phys. Rev. B*, 51, 16499 (1995).
- 101- J.C. Bennett, M. Olfert, G.A. Scholz and F.W. Boswell, *Phys. Rev. B*, 44, 2727 (1991).
- 102- F.C. Chou and D.C. Johnston, *Phys. Rev. B*, 54, 572 (1996).
- 103- S.T. Lees, P.P. Edwards, I. Gameson, M.O. Jones, M. Slaski, C. Rial, U. Amador and E. Moran, *Adv. Mater.*, 9, 10 (1997).
- 104- D.P. Scarfe, X.Z. Xiong, W.J. Zhu, P.H. Hor, S.C. Moss and A.J. Jacobson, Preprint No. 79:151, Submitted to *J. Mater. Res.*
To be published
- 105- T. Kudo, H. Obayashi and M. Yoshida, *J. Amer. Electrochem. Soc.*, 124, 321 (1977).
- 106- J.M. Rosamilia, B. Miller, L.F. Schneemeyer, J.V. Waszczak, and H.M.O'Bryan, *J. Electrochem. Soc.*, 134, 1863 (1987).
- 107- J.M. Rosamilia, L.F. Schneemeyer, T.Y. Kometani, J.V. Waszczak, and B. Miller, *J. Electrochem. Soc.*, 136, 2300 (1989).

- 108- V.M. Magee, J.M. Rosamilia, T.Y. Kometani, L.F. Schneemeyer, J.V. Waszczak and B. Miller, J. Electrochem. Soc., 135, 3026 (1988).
- 109- R.M. Zaidel, "Physicochemical Hydrodynamics", Prentice-Hall, Englewood Cliffs, N.J., p 107 (1962).
- 110- A.N. Frumkin, L.N. Nekrasov, V.G. Levich and Yu.B. Ivanov, J. Electroanal. Chem., 1, 84 (1959).
- 111- A.N. Frumkin, L.N. Nekrasov, Dokl. Akad. Nauk SSSR, 126, 115 (1959).
- 112- C.Kittel, Introduction to Solid-State Physics, 6th Ed, Wiley, New York (1986).
- 113- H. Frohlich, Phys.Rev.79, 845 (1950).
- 114- J. Bardeen, L.N. Cooper and J.R. Schrieffer, Phys.Rev.108, 1175 (1957).
- 115- J.D. Jackson, Classical Electrodynamics, Wiley, New York (1962).
- 116- V.G. Levich, Acta Physiocochem. URSS, 17, 257 (1942).
- 117- V.G. Levich, "Physicochemical Hydrodynamics", Prentice-Hall, Englewood Cliffs, N.J., p 60 (1962).
- 118- W.J. Albery and S. Bruckenstein, Trans. Faraday Soc., 62, 1920, (1966).
- 119- S. Bruckenstein, Elektrokhimiya, 9, 1085 (1966).
- 120- W.J. Albery and S. Bruckenstein, Trans. Faraday Soc., 62, 1932 (1966).
- 121- S. Bruckenstein and B. Miller, Acc. Chem. Res., 10, 54 (1977).

- 122- J. Hauck, K. Bickmann, S. Chernyaev and K. Mika, Appl. Phys. Conf. Ser. No 148, Applied superconductivity, Edinburgh, 3-6 July, 187 (1995).
- 123- S. Uchida, H. Takagi, K. Kitazawa and S. Tanaka, Jpn. J. Appl. Phys. 26, L 1 (1987).
- 124- D. Kovacheva, K. Petrov, V. Lovchinov, E. Nazarova, P. Dochev, G. Melnikliev and V. Kovachev, Physica C, (162-164) 1227 (1989).
- 125- J.M. Rosamilia and B. Miller, J. Electrochem. Soc., 135, 3030 (1988).
- 126- L.F. Schneemeyer and B. Miller, J. Electrochem. Soc., 129, 1977 (1982).
- 127- M. Strongin, S.L. Qui, J. Chen, C.L. Lin and E.M. McCarron, Phys. Rev. B, 41, 7238 (1990).
- 128- J.W. Roger, N.D. Shinn, J.E. Schirber, E.L. Venturini, D.S. Ginley and B. Morosin, Phys. Rev., 38, 5021 (1988).
- 129- B.O. Wells, R.J. Birgeneau, F.C. Chou, Y. Endoh, D.C. Johnston, M.A. Kastner, Y.S. Lee, g. Shirane, J.M. Tranquada and K. Yamada, Z. Phys. B, 100, 535 (1996).