

# Bibliography

- [1] J. H. Guo, A. Augustsson, S. Kashtanov, D. Spangberg, J. Nordgren, K. Hermansson, Y. Luo, A. Augustsson. *Journal of Electron Spectroscopy and Related Phenomena* **144-147**, 287 (2005)
- [2] J. H. Guo, Y. Luo, A. Augustsson, S. Kashtanov, J. E. Rubensson, D. Shuh, V. Zhuang, P. Ross, H. Agren, J. Nordgren. *Journal of Electron Spectroscopy and Related Phenomena* **137-40**, 425 (2004)
- [3] J. H. Guo, Y. Luo, A. Augustsson, J. E. Rubensson, C. Sathe, H. Agren, H. Siegbahn, J. Nordgren. *Physical Review Letters* **89**, (2002)
- [4] B. M. Messer, C. D. Cappa, J. D. Smith, W. S. Drisdell, C. P. Schwartz, R. C. Cohen, R. J. Saykally. *Journal of Physical Chemistry B* **109**, 21640 (2005)
- [5] B. M. Messer, C. D. Cappa, J. D. Smith, K. R. Wilson, M. K. Gilles, R. C. Cohen, R. J. Saykally. *Journal of Physical Chemistry B* **109**, 5375 (2005)
- [6] L. A. Naslund, M. Cavalleri, H. Ogasawara, A. Nilsson, L. G. M. Pettersson, P. Wernet, D. C. Edwards, M. Sandstrom, S. Myneni. *Journal of Physical Chemistry A* **107**, 6869 (2003)
- [7] A. Nilsson, L. G. M. Pettersson, H. Ogasawara. *Abstracts of Papers of the American Chemical Society* **227**, U1204 (2004)
- [8] P. Wernet, D. Nordlund, U. Bergmann, M. Cavalleri, M. Odelius, H. Ogasawara, L. A. Naslund, T. K. Hirsch, L. Ojamae, P. Glatzel, L. G. M. Pettersson, A. Nilsson. *Science* **304**, 995 (2004)
- [9] B. Winter, E. F. Aziz, U. Hergenhahn, M. Faubel, I. V. Hertel. *Journal of Chemical Physics* **126**, (2007)

- [10] B. Winter, M. Faubel, I. V. Hertel, C. Pettenkofer, S. E. Bradforth, B. Jagoda-Cwiklik, L. Cwiklik, P. Jungwirth. *Journal of the American Chemical Society* **128**, 3864 (2006)
- [11] B. Winter, R. Weber, P. M. Schmidt, I. V. Hertel, M. Faubel, L. Vrbka, P. Jungwirth. *Journal of Physical Chemistry B* **108**, 14558 (2004)
- [12] K. Hermann, L. G. M. Pettersson, M. E. Casida, C. Daul, A. Goursot, A. Koester, E. Proynov, A. St-Amant, S. D. R., V. Carravetta, H. Duarte, N. Godbout, J. Guan, C. Jamorski, M. Leboeuf, V. Malkin, M. Nyberg, L. Pedocchi, F. Sim, L. Triguero, A. Vela. *StoBe-deMon version 1.0* (2002)
- [13] R. D. Cowan. *J. Opt. Soc. Am.* **58**, 808 (1968)
- [14] M. J. Frisch, G. W. Trucks, H. B. Schlegel, G. E. Scuseria, M. A. Robb, J. R. Cheeseman, V. G. Zakrzewski, J. A. Montgomery, R. E. Stratmann, J. C. Burant, S. Dapprich, J. M. Millam, A. D. Daniels, K. N. Kudin, M. C. Strain, O. Farkas, J. Tomasi, V. Barone, M. Cossi, R. Cammi, B. Mennucci, C. Pomelli, C. Adamo, S. Clifford, J. Ochterski, G. A. Petersson, P. Y. Ayala, Q. Cui, K. Morokuma, P. Salvador, J. J. Dannenberg, D. K. Malick, A. D. Rabuck, K. Raghavachari, J. B. Foresman, J. Cioslowski, J. V. Ortiz, A. G. Baboul, B. B. Stefanov, G. Liu, A. Liashenko, P. Piskorz, I. Komaromi, R. Gomperts, R. L. Martin, D. J. Fox, T. Keith, M. A. Al-Laham, C. Y. Peng, A. Nanayakkara, M. Challacombe, P. M. W. Gill, B. Johnson, W. Chen, M. W. Wong, J. L. Andres, C. Gonzalez, M. Head-Gordon, E. S. Replogle, J. A. Pople. *Gaussian 03* (2003)
- [15] B. Winter, M. Faubel. *Chemical Reviews* **106**, 1176 (2006)
- [16] F. M. F. de Groot. *Journal of Electron Spectroscopy and Related Phenomena* **67**, 529 (1994)
- [17] S. Eisebitt, J. E. Rubensson, T. Boske, W. Eberhardt. *Physical Review B* **48**, 17388 (1993)
- [18] J. Stöhr. *NEXAFS spectroscopy*. Springer-Verlag, Berlin; New York (1992)
- [19] J. G. Chen. *Surface Science Reports* **30**, 5 (1997)
- [20] P. Carra, M. Altarelli. *Physical Review Letters* **64**, 1286 (1990)
- [21] F. M. F. de Groot. *Journal of Electron Spectroscopy and Related Phenomena* **67**, 529 (1994)

- 
- [22] M. O. Krause, J. H. Oliver. *Journal of Physical and Chemical Reference Data* **8**, 329 (1979)
- [23] F. M. F. de Groot, M. A. Arrio, P. Saintavit, C. Cartier, C. T. Chen. *Solid State Communications* **92**, 991 (1994)
- [24] J. Stöhr, E. B. Kollin, D. A. Fischer, J. B. Hastings, F. Zaera, F. Sette. *Physical Review Letters* **55**, 1468 (1985)
- [25] S. Eisebitt, T. Böske, J. E. Rubensson, W. Eberhardt. *Physical Review B* **47**, 14103 (1993)
- [26] A. Filipponi. *Journal of Physics-Condensed Matter* **13**, R23 (2001)
- [27] H. Fricke. *Physical Review* **16**, 202 (1920)
- [28] R. D. Kronig, S. Frisch. *Physikalische Zeitschrift* **32**, 457 (1931)
- [29] R. D. L. Kronig, H. J. Groenewold. *Proceedings of the Koninklijke Akademie Van Wetenschappen Te Amsterdam* **35**, 974 (1932)
- [30] D. R. Hartree, R. del Kronig, H. Petersen. *Physica* **1**, 895 (1934)
- [31] D. M. Yost. *Philosophical Magazine* **8**, 845 (1929)
- [32] J. D. Hanawalt. *Physical Review* **37**, 715 (1931)
- [33] J. Nordgren, G. Bray, S. Cramm, R. Nyholm, J. E. Rubensson, N. Wassdahl. *Review of Scientific Instruments* **60**, 1690 (1989)
- [34] N. Wassdahl, J. E. Rubensson, G. Bray, P. Glans, P. Bleckert, R. Nyholm, S. Cramm, N. Martensson, J. Nordgren. *Physical Review Letters* **64**, 2807 (1990)
- [35] J. J. Sakurai. *Advanced Quantum Mechanics*. Addison-Wesley, London (1967)
- [36] S. Hüfner. *Photoelectron Spectroscopy*. Springer verlag, Berlin (1995)
- [37] H. G. Hertz. *Ann. Phys.* **31**, 983 (1887)
- [38] A. Einstein. *Annalen Der Physik* **17**, 891 (1905)
- [39] A. Fahlman, S. Hagstrom, K. Hamrin, R. Nordberg, C. Nordling, K. Siegbahn. *Arkiv for Fysik* **31**, 479 (1966)

- [40] A. Fahlman, K. Siegbahn. *Arkiv for Fysik* **32**, 111 (1966)
- [41] F. Jensen. *Introduction to Computational Chemistry*. Wiley, Odense (2002)
- [42] J. A. Pople, H. B. Schlegel, R. Krishnan, D. J. Defrees, J. S. Binkley, M. J. Frisch, R. A. Whiteside, R. F. Hout, W. J. Hehre. *International Journal of Quantum Chemistry* 269–278 (1981)
- [43] H. Partridge, C. W. Bauschlicher. *Journal of Chemical Physics* **103**, 10589 (1995)
- [44] L. Onsager. *Journal of the American Chemical Society* **58**, 1486 (1936)
- [45] S. Miertus, J. Tomasi. *Chemical Physics* **65**, 239 (1982)
- [46] J. B. Foresman, T. A. Keith, K. B. Wiberg, J. Snoonian, M. J. Frisch. *Journal of Physical Chemistry* **100**, 16098 (1996)
- [47] M. W. Wong, K. B. Wiberg, M. Frisch. *Journal of Chemical Physics* **95**, 8991 (1991)
- [48] L. Triguero, L. G. M. Pettersson. *Surface Science* **398**, 70 (1998)
- [49] L. Triguero, L. G. M. Pettersson, H. Agren. *Physical Review B* **58**, 8097 (1998)
- [50] L. Triguero, L. G. M. Pettersson, H. Agren. *Journal of Physical Chemistry A* **102**, 10599 (1998)
- [51] L. Triguero, L. G. M. Pettersson, H. Agren. *Physical Review B* **58**, 8097 (1998)
- [52] C. Kolczewski, R. Puttner, O. Plashkevych, H. Agren, V. Staemmler, M. Martins, G. Snell, A. S. Schlachter, M. Sant’Anna, G. Kaindl, L. G. M. Pettersson. *Journal of Chemical Physics* **115**, 6426 (2001)
- [53] M. Stener, A. Lisini, P. Decleva. *Chemical Physics* **191**, 141 (1995)
- [54] C. H. Hu, D. P. Chong. *Chemical Physics Letters* **262**, 729 (1996)
- [55] C. H. Hu, D. P. Chong. *Chemical Physics Letters* **262**, 733 (1996)
- [56] J. J. Rehr, R. C. Albers. *Reviews of Modern Physics* **72**, 621 (2000)
- [57] J. J. Rehr, A. L. Ankudinov. *Journal of Electron Spectroscopy and Related Phenomena* **114**, 1115 (2001)

- [58] M. Taillefumier, D. Cabaret, A. M. Flank, F. Mauri. *Physical Review B* **66**, (2002)
- [59] F. M. F. de Groot. *Coordination Chemistry Reviews* **249**, 31 (2005)
- [60] A. L. Ankudinov, B. Ravel, J. J. Rehr, S. D. Conradson. *Physical Review B* **58**, 7565 (1998)
- [61] J. Nordgren, G. Bray, S. Cramm, R. Nyholm, J. E. Rubensson, N. Wassdahl. *Review of Scientific Instruments* **60**, 1690 (1989)
- [62] J. D. Smith, C. D. Cappa, K. R. Wilson, B. M. Messer, R. C. Cohen, R. J. Saykally. *Science* **306**, 851 (2004)
- [63] K. R. Wilson, M. Cavalleri, B. S. Rude, R. D. Schaller, A. Nilsson, L. G. M. Pettersson, N. Goldman, T. Catalano, J. D. Bozek, R. J. Saykally. *Journal of Physics-Condensed Matter* **14**, L221 (2002)
- [64] C. D. Cappa, J. D. Smith, K. R. Wilson, B. M. Messer, M. K. Gilles, R. C. Cohen, R. J. Saykally. *J. Phys. Chem. B* **109**, 7046 (2005)
- [65] J. H. Guo, Y. Luo, A. Augustsson, S. Kashtanov, J. E. Rubensson, D. K. Shuh, H. Agren, J. Nordgren. *Physical Review Letters* **91**, (2003)
- [66] E. F. Aziz, A. Zimina, M. Freiwald, S. Eisebitt, W. Eberhardt. *Journal of Chemical Physics* **124**, (2006)
- [67] E. F. Aziz, M. Freiwald, S. Eisebitt, W. Eberhardt. *Physical Review B* **73**, (2006)
- [68] E. F. Aziz, S. Eisebitt, F. de Groot, J. Chiou, C. Dong, J. Guo, W. Eberhardt. *J. Phys. Chem. B* **111**, 4440 (2007)
- [69] F. de Groot. *Coordination Chemistry Reviews* **249**, 31 (2005)
- [70] Z. Hu, C. Mazumdar, G. Kaindl, F. M. F. de Groot, S. A. Warda, D. Reinen. *Chemical Physics Letters* **297**, 321 (1998)
- [71] Z. Hu, G. Kaindl, S. A. Warda, D. Reinen, F. M. F. de Groot, B. G. Muller. *Chemical Physics* **232**, 63 (1998)
- [72] K. Okada, A. Kotani. *Journal of the Physical Society of Japan* **61**, 449 (1992)

- [73] R. K. Hocking, E. C. Wasinger, F. M. F. de Groot, K. O. Hodgson, B. Hedman, E. I. Solomon. *Journal of the American Chemical Society* **128**, 10442 (2006)
- [74] J. J. Rehr, J. M. Deleon, S. I. Zabinsky, R. C. Albers. *Journal of the American Chemical Society* **113**, 5135 (1991)
- [75] J. M. Deleon, J. J. Rehr, S. I. Zabinsky, R. C. Albers. *Physical Review B* **44**, 4146 (1991)
- [76] L. de Greve, F. L. B. da Silva. *Journal of Chemical Physics* **111**, 5150 (1999)
- [77] S. Koneshan, J. C. Rasaiah. *Journal of Chemical Physics* **113**, 8125 (2000)
- [78] J. P. Noworyta, S. Koneshan, J. C. Rasaiah. *Journal of the American Chemical Society* **122**, 11194 (2000)
- [79] A. Filipponi, S. De Panfilis, C. Oliva, M. A. Ricci, P. D'Angelo, D. T. Bowron. *Physical Review Letters* **91**, (2003)
- [80] T. Koishi, K. Yasuoka, T. Ebisuzaki. *Journal of Chemical Physics* **119**, 11298 (2003)
- [81] J. P. Brodholt. *Chemical Geology* **151**, 11 (1998)
- [82] H. Ohtaki, T. Radnai. *Chemical Reviews* **93**, 1157 (1993)
- [83] G. Palinkas, T. Radnai, F. Hajdu. *Zeitschrift Fur Naturforschung Section a-a Journal of Physical Sciences* **35**, 107 (1980)
- [84] N. Ohtomo, K. Arakawa. *Bulletin of the Chemical Society of Japan* **53**, 1789 (1980)
- [85] M. Maeda, H. Ohtaki. *Bulletin of the Chemical Society of Japan* **48**, 3755 (1975)
- [86] G. W. Neilson, P. E. Mason, S. Ramos, D. Sullivan. *Philosophical Transactions of the Royal Society of London Series a-Mathematical Physical and Engineering Sciences* **359**, 1575 (2001)
- [87] L. X. Dang, G. K. Schenter, J. L. Fulton. *Journal of Physical Chemistry B* **107**, 14119 (2003)
- [88] H. Ohtaki, N. Fukushima. *Journal of Solution Chemistry* **21**, 23 (1992)

- [89] K. R. Wilson, B. S. Rude, T. Catalano, R. D. Schaller, J. G. Tobin, D. T. Co, R. J. Saykally. *Journal of Physical Chemistry B* **105**, 3346 (2001)
- [90] R. Weber, B. Winter, P. M. Schmidt, W. Widdra, I. V. Hertel, M. Dittmar, M. Faubel. *Journal of Physical Chemistry B* **108**, 4729 (2004)
- [91] A. S. Quist, W. L. Marshall. *Journal of Physical Chemistry* **72**, 2100 (1968)
- [92] J. L. Fulton, S. M. Heald, Y. S. Badyal, J. M. Simonson. *Journal of Physical Chemistry A* **107**, 4688 (2003)
- [93] Y. S. Badyal, A. C. Barnes, G. J. Cuello, J. M. Simonson. *Journal of Physical Chemistry A* **108**, 11819 (2004)
- [94] E. Hawlicka, D. Swiatla-Wojcik. *Journal of Physical Chemistry A* **106**, 1336 (2002)
- [95] J. Zaanen, G. A. Sawatzky, J. Fink, W. Speier, J. C. Fuggle. *Physical Review B* **32**, 4905 (1985)
- [96] J. Fink, T. Mullerheinzerling, B. Scheerer, W. Speier, F. U. Hillebrecht, J. C. Fuggle, J. Zaanen, G. A. Sawatzky. *Physical Review B* **32**, 4899 (1985)
- [97] S. E. McLain, S. Imberti, A. K. Soper, A. Botti, F. Bruni, M. A. Ricci. *Physical Review B* **74**, (2006)
- [98] S. Imberti, A. Botti, F. Bruni, G. Cappa, M. A. Ricci, A. K. Soper. *Journal of Chemical Physics* **122**, (2005)
- [99] A. W. Omta, M. F. Kropman, S. Woutersen, H. J. Bakker. *Science* **301**, 347 (2003)
- [100] H. J. Bakker, M. F. Kropman, A. W. Omta. *Journal of Physics-Condensed Matter* **17**, S3215 (2005)
- [101] M. Mucha, T. Frigato, L. M. Levering, H. C. Allen, D. J. Tobias, L. X. Dang, P. Jungwirth. *Journal of Physical Chemistry B* **109**, 7617 (2005)
- [102] M. Zapalowski, W. M. Bartczak. *Computers and Chemistry* **24**, 459 (2000)
- [103] S. Chowdhuri, A. Chandra. *Journal of Chemical Physics* **115**, 3732 (2001)
- [104] Y. Marcus. *Journal of Physical Chemistry* **91**, 4422 (1987)

- [105] K. Waizumi, T. Kouda, A. Tanio, N. Fukushima, H. Ohtaki. *Journal of Solution Chemistry* **28**, 83 (1999)
- [106] A. K. Soper, G. W. Neilson, J. E. Enderby, R. A. Howe. *Journal of Physics C-Solid State Physics* **10**, 1793 (1977)
- [107] G. W. Neilson, J. E. Enderby. *Journal of Physics C-Solid State Physics* **11**, L625 (1978)
- [108] M. Magini. *Journal of Chemical Physics* **74**, 2523 (1981)
- [109] R. Caminiti, P. Cucca. *Chemical Physics Letters* **89**, 110 (1982)
- [110] G. Vanderlaan, J. Zaanen, G. A. Sawatzky, R. Karnatak, J. M. Esteve. *Physical Review B* **33**, 4253 (1986)
- [111] L. Stryer, J. M. Berg, J. L. Tymoczko. *Biochemistry*. W.H. Freeman and Co. (2002)
- [112] B. Winter, R. Weber, W. Widdra, M. Dittmar, M. Faubel, I. V. Hertel. *Journal of Physical Chemistry A* **108**, 2625 (2004)
- [113] A. Shchukarev, S. Sjoberg. *Surface Science* **584**, 106 (2005)
- [114] J. Boese, A. Osanna, C. Jacobsen, J. Kirz. *Journal of Electron Spectroscopy and Related Phenomena* **85**, 9 (1997)
- [115] J. Hasselstrom, O. Karis, M. Weinelt, N. Wassdahl, A. Nilsson, M. Nyberg, L. G. M. Pettersson, M. G. Samant, J. Stöhr. *Surface Science* **407**, 221 (1998)
- [116] M. Tanaka, K. Nakagawa, T. Koketsu, A. Agui, A. Yokoya. *Journal of Synchrotron Radiation* **8**, 1009 (2001)
- [117] K. Kaznatcheyev, A. Osanna, C. Jacobsen, O. Plashkevych, O. Vahtras, H. Agren. *Journal of Physical Chemistry A* **106**, 3153 (2002)
- [118] M. L. Gordon, G. Cooper, C. Morin, T. Araki, C. C. Turci, K. Kaznatcheev, A. P. Hitchcock. *Journal of Physical Chemistry A* **107**, 6144 (2003)
- [119] Y. Zubavichus, M. Zharnikov, A. Schaporenko, M. Grunze. *Journal of Electron Spectroscopy and Related Phenomena* **134**, 25 (2004)
- [120] D. T. Clark, J. Peeling, L. Colling. *Biochimica Et Biophysica Acta* **453**, 533 (1976)

- [121] P. H. Cannington, N. S. Ham. *Journal of Electron Spectroscopy and Related Phenomena* **32**, 139 (1983)
- [122] G. Richer, C. Sandorfy, M. A. C. Nascimento. *Journal of Electron Spectroscopy and Related Phenomena* **34**, 327 (1984)
- [123] K. D. Bomben, S. B. Dev. *Analytical Chemistry* **60**, 1393 (1988)
- [124] M. Schmidt, S. G. Steinemann. *Fresenius Journal of Analytical Chemistry* **341**, 412 (1991)
- [125] M. Nyberg, J. Hasselstrom, O. Karis, N. Wassdahl, M. Weinelt, A. Nilsson, L. G. M. Pettersson. *Journal of Chemical Physics* **112**, 5420 (2000)
- [126] M. J. Bozack, Y. Zhou, S. D. Worley. *Journal of Chemical Physics* **100**, 8392 (1994)
- [127] Y. Zubavichus, M. Zharnikov, Y. J. Yang, O. Fuchs, C. Heske, E. Umbach, G. Tzvetkov, F. P. Netzer, M. Grunze. *Journal of Physical Chemistry B* **109**, 884 (2005)
- [128] A. R. Slaughter, M. S. Banna. *Journal of Physical Chemistry* **92**, 2165 (1988)
- [129] B. E. Mills, R. L. Martin, D. A. Shirley. *Journal of the American Chemical Society* **98**, 2380 (1976)
- [130] M. B. Smith, J. March. volume 5, 18 (2001)
- [131] T. Karlsen, K. J. Borve, L. J. Saethre, K. Wiesner, M. Bassler, S. Svensson. *Journal of the American Chemical Society* **124**, 7866 (2002)
- [132] R. N. De Guzman, H. Y. Liu, M. Martinez-Yamout, H. J. Dyson, P. E. Wright. *Journal of Molecular Biology* **303**, 243 (2000)
- [133] W. G. Rice, C. A. Schaeffer, B. Harten, F. Villinger, T. L. South, M. F. Summers, L. E. Henderson, J. W. Bess, L. O. Arthur, J. S. Mcdougal, S. L. Orloff, J. Mendeleyev, E. Kun. *Nature* **361**, 473 (1993)
- [134] W. G. Rice, J. A. Turpin, C. A. Schaeffer, L. Graham, D. Clanton, R. W. Buckheit, D. Zaharevitz, M. F. Summers, A. Wallqvist, D. G. Covell. *Journal of Medicinal Chemistry* **39**, 3606 (1996)

- [135] W. G. Rice, D. C. Baker, C. A. Schaeffer, L. Graham, M. Bu, S. Terpening, D. Clanton, R. Schultz, J. P. Bader, R. W. Buckheit, L. Field, P. K. Singh, J. A. Turpin. *Antimicrobial Agents and Chemotherapy* **41**, 419 (1997)
- [136] S. S. Kidambi, D. K. Lee, A. Ramamoorthy. *Inorganic Chemistry* **42**, 3142 (2003)
- [137] A. Jancso, T. Gajda, E. Mulliez, L. Korecz. *Journal of the Chemical Society-Dalton Transactions* 2679–2684 (2000)
- [138] J. G. Omichinski, G. M. Clore, M. Robien, K. Sakaguchi, E. Appella, A. M. Gronenborn. *Biochemistry* **31**, 3907 (1992)
- [139] L. D. Couves, D. N. Hague, A. D. Moreton. *Journal of the Chemical Society-Dalton Transactions* 217–223 (1992)
- [140] J. E. Coleman, B. L. Vallee. *Journal of Biological Chemistry* **236**, 2244 (1961)
- [141] K. Nakamoto. *Infrared and Raman Spectra of Inorganic and Coordination Compounds*, volume Part B. A Wiley-Interscience publication, Canada, 5th edition edition (1997)
- [142] D. D. Perrin, V. S. Sharma. *Journal of the Chemical Society a Inorganic Physical Theoretical* 724 (1967)
- [143] D. D. Perrin. *Nature* **184**, 1868 (1959)
- [144] H. Fuess, H. Bartunik. *Acta Crystallographica Section B-Structural Science* **32**, 2803 (1976)
- [145] R. H. Carlson, T. L. Brown. *Inorganic Chemistry* **5**, 268 (1966)
- [146] R. Leberman, B. R. Rabin. *Nature* **185**, 768 (1960)
- [147] M. S. Nair, K. Venkatachalapathi, M. Santappa. *Journal of the Chemical Society-Dalton Transactions* 555–559 (1982)
- [148] D. D. Perrin, I. G. Sayce. *Journal of the Chemical Society a -Inorganic Physical Theoretical* 53 (1968)
- [149] G. Arena, S. Musumeci, E. Rizzarelli, S. Sammartano, C. Rigano. *Transition Metal Chemistry* **5**, 297 (1980)

- [150] A. Jancso, T. Gajda, E. Mulliez, L. Korecz. *Journal of the Chemical Society-Dalton Transactions* 2679–2684 (2000)
- [151] L. J. Porter, D. D. Perrin, R. W. Hay. *Journal of the Chemical Society a-Inorganic Physical Theoretical* 118 (1969)
- [152] W. W. Cleland. *Biochemistry* **3**, 480 (1964)
- [153] G. Berthon, P. M. May, D. R. Williams. *Journal of the Chemical Society-Dalton Transactions* 1433–1438 (1978)
- [154] C. K. Chiang, C. R. Fincher, Y. W. Park, A. J. Heeger, H. Shirakawa, E. J. Louis, S. C. Gau, A. G. Macdiarmid. *Physical Review Letters* **39**, 1098 (1977)
- [155] N. Basescu, Z. X. Liu, D. Moses, A. J. Heeger, H. Naarmann, N. Theophilou. *Nature* **327**, 403 (1987)
- [156] A. J. Heeger, S. Kivelson, J. R. Schrieffer, W. P. Su. *Reviews of Modern Physics* **60**, 781 (1988)
- [157] C. W. Chu, J. M. E. Harper, T. H. Geballe, R. L. Greene. *Physical Review Letters* **31**, 1491 (1973)
- [158] J. Ferraris, V. Walatka, Perlstei.Jh, D. O. Cowan. *Journal of the American Chemical Society* **95**, 948 (1973)
- [159] R. G. Kepler, P. E. Bierstedt, R. E. Merrifield. *Physical Review Letters* **5**, 503 (1960)
- [160] R. Kumai, Y. Okimoto, Y. Tokura. *Science* **284**, 1645 (1999)
- [161] S. Hotta, K. Waragai. *Journal of Materials Chemistry* **1**, 835 (1991)
- [162] M. R. Bryce, L. C. Murphy. *Nature* **309**, 119 (1984)
- [163] A. N. Aleshin, H. J. Lee, Y. W. Park, K. Akagi. *Physical Review Letters* **93**, (2004)
- [164] Z. H. Wang, E. M. Scherr, A. G. Macdiarmid, A. J. Epstein. *Physical Review B* **45**, 4190 (1992)
- [165] D. Jeon, J. Kim, M. C. Gallagher, R. F. Willis. *Science* **256**, 1662 (1992)

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- [166] K. Lee, S. Cho, S. H. Park, A. J. Heeger, C. W. Lee, S. H. Lee. *Nature* **441**, 65 (2006)
- [167] F. Garnier, R. Hajlaoui, A. Yassar, P. Srivastava. *Science* **265**, 1684 (1994)
- [168] H. Sirringhaus, T. Kawase, R. H. Friend, T. Shimoda, M. Inbasekaran, W. Wu, E. P. Woo. *Science* **290**, 2123 (2000)
- [169] H. B. Akkerman, P. W. M. Blom, D. M. de Leeuw, B. de Boer. *Nature* **441**, 69 (2006)
- [170] N. Koch, A. Vollmer. *Applied Physics Letters* **89**, (2006)
- [171] H. Goto, E. Yashima. *Journal of the American Chemical Society* **124**, 7943 (2002)
- [172] M. Woodson, J. Liu. *Journal of the American Chemical Society* **128**, 3760 (2006)
- [173] S. Hotta, S. D. D. V. Rughooputh, A. J. Heeger. *Synthetic Metals* **22**, 79 (1987)
- [174] J. Blochwitz, M. Pfeiffer, T. Fritz, K. Leo. *Applied Physics Letters* **73**, 729 (1998)
- [175] W. Y. Gao, A. Kahn. *Applied Physics Letters* **79**, 4040 (2001)
- [176] W. Y. Gao, A. Kahn. *Journal of Applied Physics* **94**, 359 (2003)
- [177] G. Brocks. *Physical Review B* **55**, 6816 (1997)
- [178] T. J. Emge, M. Maxfield, D. O. Cowan, T. J. Kistenmacher. *Molecular Crystals and Liquid Crystals* **65**, 161 (1981)
- [179] A. Dreuw, M. Head-Gordon. *Chemical Reviews* **105**, 4009 (2005)
- [180] R. Friend. *Nature* **441**, 37 (2006)