

DAFTAR PUSTAKA

- Adachi, M., and Ishii, H. 2002, Role of mitochondria in alcoholic liver injury. *Free Radic. Biol. Med.* 32:487–491
- Agency for Toxic Substances and Disease Registry (ATSDR), 2012. *Toxicological Profile for Chromium*. US Department of Health Human Services, Public Health Service .Agency for Toxic substances and Disease Registry, Atlanta
- Ahmadi, U.F, 1990. Untaian Wawasan : *Kesehatan Masyarakat Kerja Sektor Non Formal*. Jakarta : Direktorat Bina Peran Serta Masyarakat Departemen Kesehatan Republik Indonesia
- Aiyar J., Borges K.M., Floyd R.A., Wetterhahn, K.E., 1989. Role of chromium (V), glutathiol and hydroxyl radical intermediates in chromium (VI)-induced DNA damage. *Toxicol Environ Chem*, 22:135–48.
- Aiyar, J., Berkovits, H.J., Floyd, R.A., Wetterhahn, K.E., 1991. Reaction of chromium (VI) with glutathione or with hydrogen peroxide: identification of reactive intermediates and their role in chromium(VI)-induced DNA damage. *Environ. Health Perspect* 92, pp 53–62.
- Alian, H, 2010 . *Pengaruh Tegangan Pada Proses Elektroplating Baja Dengan Pelapis Seng dan Krom Terhadap Kekerasan Dan Laju Korosinya*, skripsi Jurusan Teknik Mesin Fakultas Teknik : Universitas Sriwijaya
- Alexander J., Aaseth J., 1995. Uptake of chromate in human red blood cells and isolated rat liver cells: the role of the anion carrier. *Analyst* . 120:931-933.
- Ames B.N.,1989. Endogenous oxidative DNA damage, aging and cancer. *Free Radic Res Commum*, 7:121–8.
- A. M. Nugroho, 2005 .Pelatihan Elektroplating untuk industri kecil logam kota Tegal, Juwana : Business Development Service (BDS) Kanigoro.
- Anies, 2005. *Penyakit Akibat Kerja*. Jakarta : Elek Media Komputindo
- Asatiani, N., Sapojnikova, N., Abuladze, M., Kartvelishvili, T., Kulikova, N., Kiziria, E., Namchevadze, E., Holman, H., 2004. Effects of Cr (VI) long-

- term and low-dose action on mammalian antioxidant enzymes (an in vitro study). *J. Inorg. Biochem.* 98, 490–496.
- Asni E., 2009. Pengaruh Hipoksia Berkelanjutan Terhadap Kadar Malondialdehid, Glutation Tereduksi, dan Aktivitas Katalase Ginjal Tikus. *MKI*, 59(12): 595-600
- Bailey, S.M., Cunningham, C.C, 2002. Contribution of mitochondria to oxidative stress associated with alcoholic liver disease. *Free Radic. Biol. Med.* 32:11–16
- Bagchi, D., Stohs, S.J., Downs, B.W., Bagchi, M., Preuss, H.G., 2002. Cytotoxicity and oxidative mechanisms of different forms of chromium. *Toxicology* 180, 5–22.
- Biro Pusat Statistik, 2012, *Kabupaten Tegal Dalam Angka*, Tegal
- Bradshaw L.M., Fishwick D., Slater T., Pearce N., 1998. Chronic bronchitis, work related respiratory symptoms, and pulmonary function in welders in New Zealand. *Occup Environ Med*, 55:150–154
- Britton, J., Edwards. F. 2007. Tobacco Smoking, harm reduction, and nicotine product regulation. *Lancet* 317 (9610) :441-445
- Bryant, H.E., Ying, S., Helleday, T., 2006. Homologous recombination is involved in repair of chromium-induced DNA damage in mammalian cells. *Mut.Res.* 599, 116–123.
- Cagliari, Andrea, Matteo G., Olga A., Roberta A., Maria V., Massimo C., Pietro A., Antonio M., 2006. The Effect of Inhaled Chromium on Different Exhaled Breath Condensate Biomarkers among Chrome-Plating Workers. *Environ Health Perspect*, vol 114 (4) : 542-6
- Chandra, B., 2006. *Biostatistik untuk Kedokteran dan Kesehatan*, Jakarta : EGC
- Chiu A., Katz A.J., Beaubier J., Chiu N., Shi X., 2004. Genetic and cellular mechanisms in chromium and nickel carcinogenesis considering epidemiologic findings. *Mol Cell Biochem* , 255:181-194
- Cooper, D. R ., Pamela S. S., 2006. *Business research methods*, (7th ed. , New York, : Irwin/Mc Graw-Hill
- Conti, M., Morand, P.C., Levillain P., Lemonniera A., 1991. Improve Fluorometric Determination of Malonaldehyde, *J. Clin. Chem*; 37 : 1273-1275

- Codd R., Dillon C. T., Levina A., Lay P.A., 2001. Studies on the genotoxicity of chromium : from the test tube to the cell. *Coordinatio Chemistry Reviews*; 216-217: 537-582
- Damanik, LH., 2014, Model Pengendalian Kesehatan Tenaga Kerja Pada Kegiatan Pengecoran Logam Tradisional Studi Kasus Di Kawasan Industri Batur, Klaten Jawa Tengah, Disertasi, Yogyakarta : Sekolah Pasca Sarjana UGM
- Danielson, U.H., Esterbauer, H., Mannervik, B., 1987. Structure–activity relationships of 4 hydroxyalkenals in the conjugation catalysed by mammalian glutathione transferases. *Biochem J.* 247, 707–713
- Das, A.P., Singh S., 2011. Occupational health assessment of chromite toxicity among Indian miners, *Indian J. Occup Environ Med* . Jan-Apr; 15(1): 6–13
- De Flora S. 2000. Threshold mechanisms and site specificity in chromium(VI) carcinogenesis. *Carcinogenesis* 21:533–541
- Done, I D., Ranieri ., Roberto C., Daniedla C., and Aldo M, 2006. Biomarker of Oxidative Damage in Human Diseasea, *Clin Chem*, 52:4; 601-623
- El Badry, AAM., 2006, Serum Malondialdehyde Levels as Biomarkers of Cellular Injury in Human Fascioliasis, *J T U Med Sc*; 1 (1) : 57-64
- Environmental Protection Agency (EPA), 2001. Chromium (VI). www.epa.gov/iris/subst-0144.htm
- Erharbor, GE., Fatusis dan Obembe, OB. 2001. Pulmonary Functions in ARC-Welder in *East. J. Afr Med* 78 (9); 461-4
- Esmond D.A., Macgregor J.T., Slesinski R.S., 2008. Trivalent chromium : assessing the genotoxic risk of an essential trace element and widely used human and animal nutritional supplement. *Crit Rev. Toxicol*, 38 :173-190
- Faux S.P., Gao M., Chipman J.K, Levy, L.S., 1992. Production of 8-hydroxydeoxyguanosine in isolated DNA by chromium (VI) and chromium (V). *Carcinogenesis* 13:1667–79
- Favier, A.E. 1982. Biological Indicators of Oxidative Stress in Human , Trace Elements and Free Radicals in Oxidative Diseases. Champaign Illinois
- Gambelunghe, A., , R. Piccinini R , M. Ambrogi , M. Villarini , M. Moretti , C. Marchetti , G. Abbritti, G. Muzi , 2003. Primary DNA damage in chrome-plating workers. *Toxicology* 188, 187-195
- Gibb H.J, Lees P.S.J, Pinsky P.F, Rooney B.C., 2000. Lung cancer among workers in chromium chemical production. *Am J Ind Med* 38,115–126.

- Gozali, Imam, 2008 . *Structural Equation Modelling Metode Alternatif dengan Partial Least Square PLS edisi Ke-2*. Semarang : Badan Penerbit Universitas Diponegoro
- Greenberg, Michael I. Richard J.H., Scott, D.P., Gayla J.M., 2003. *Occupational, Industrial and Environmental Toxicology*, second edition, Philadelphia : Mosby
- Hair, J.F.Jr., Black, W.C, Babin, B.J. Anderson, R.E and Tatham, R.L, 2008. *Multivariate data analysis*, 6th ed., NY : Pearson Prentice Hall
- Halliwell, B., Whiteman, M. 2004. Measuring reactive species and oxidative damage in vivo and in cell culture. *Br. J. Pharmacol*, 142: 231-255., B.
- Halliwell B., Gutteridge, J.M.C, 1991. *Free Radical in Biology and Medicine*, Oxford : Clarendon Press
- Handleman, G.J. Pryor, W.A., 1998, Evaluation of antioxidant status in humans dalam : *Antioxidant Status, Diet, Nutrition and Health*. A Papas (Ed) Boca Raton, London, New York, Washington DC : CRC Press p. 39-62
- Hartomo, A. J., Kaneko, T., 1995. *Mengenal Pelapisan Logam (Elektroplating)*, Yogyakarta : Penerbit Andi
- Hastono, SP, 2007. *Analisis Data Kesehatan*, Jakarta : FKM UI
- Hirano T, Homma Y, Kasai H, 1995. *Formation of 8-Hydroxyguanine in DNA by Aging and Oxidative Stress*. In: Cutler RG, Packer L, Bertran J, Mori A, editors. *Oxidative Stress and Aging*. Birkhauser Verlag; Basel, Switzerland: 69–76
- Hirano, T, 2011. Alcohol consumption and Oxidative DNA Damage. *Int J Environ Res Public Health*; 8 (7):2895-2906
- Holmes, A.L., Wise, S.S., Wise Sr., J.P., 2008. Carcinogenicity of hexavalent chromium. *Indian J. Med. Res.* 128, 353–372.
- Husaini, 2014, Hubungan pajanan CO, SO₂, NO₂, Uap besi dan debu besi dengan gangguan fungsi paru dan kadar imunoglobulin serum pengrajin logam, Disertasi, Yogyakarta : Program Doktor Ilmu Kedokteran dan Kesehatan FK UGM
- Hyde, D. 2009. *Introduction to Genetics Principles*. Boston: McGraw-Hill. p. 764-767.

- IETEG, 2004, *Chromium (VI) Handbook*, Florida : CRC Press
- Jogiyanto, H.M, Abdillah W., 2009 , Konsep dan Aplikasi PLS (Partial Least Square) Untuk penelitian Empiris, Yogyakarta : BPFE
- Jogiyanto H.M, 2011, Konsep dan Aplikasi Structural Equation Modelling Berbasis Varian dalam penelitian Bisnis, Yogyakarta : UPP STIM YKPN
- Jomova K., Valko, M., 2011. Advances in metal-induced oxidative stress and human disease. *Toxicology*; 283 : 65-67
- Kakkar, P., Farhat N., Jaffery, 2005. Biological markers for metal toxicity. *Environ Toxicol an Pharmacol* 19(2):335-49
- Kalahasthi, R.B., Rajmohan H.R.R, Rajan B.K.M., M.Karuna K., 2006. Effect of Chromium (VI) on the status of plasma lipid peroxidation on erythrocyte antioxidant enzymes in Chromium Plating Workers. *Chemico-Biological Interac.* 164, 192-199
- Kapol V, Keogh J., 1990. Case Studies in Environmental Medicine. Chromium Toxicity Atlanta, Agency For Toxic substances and Disease Registry, Department of Health and Human Services
- Kasai H., Hayaami H., Yamaizumi Z., SaitoH., Nishimura S., 1984. Detection and identification of mutages and carcinogens as their adducts with guanine derivatives. *Nucl Acids Res* 12:2127–36.
- Kasai H., 1997. Analysis of a form of oxidative DNA damage, 8-hydroxy deoxyguanosine, as markers of cellular oxidative stress during carcinogenesis. *Mutat Res* ,387:147–63.
- Kasai H., Kawai K.,2006. Oxidative DNA damage: mechanism and significance in Health and disease. *Antioxid Redox Signal*, 8(5,6),981
- Kasprzak, K.S., 1991. The oxidative damage in metal carcinogenicity. *Chem. Res.Toxicol* 4 (6), 604–615.
- Kawanishi, S., Hiraku, Y., Murata, M., Oikawa, S., 2002. The role of metals in site-specific DNA damage with reference to carcinogenesis. *Free Radic Biol Med* 32 (9), 822–832.
- Kemenkes RI, 2011 a. Pengantar Penyakit Akibat Kerja, Dirjen Bina Kesehatan Masyarakat. Jakarta : Kemenkes RI
- Kemenkes RI, 2011 b. Pedoman Keselamatan dan Kesehatan Kerja Puskesmas. Direktorat Bina Kesehatan kerja dan Olah Raga. Dirjen Bina Gizi dan Kesehatan Ibu dan Anak. Jakarta : Kemenkes RI

- Kemenkes RI, 2011 c . Pedoman Penyelenggaraan Pelatihan Kader Kesehatan Kerja. Direktorat Bina Kesehatan kerja dan Olah Raga. Dirjen Bina Gizi dan Kesehatan Ibu dan Anak. Jakarta : Kemenkes RI
- Khan, F. H. , Khushboo A. , Ghizal F. , Sudhir K., 2012. Assessment of health risks with reference to oxidative stress and DNA damage in chromium exposed population. *Sci. Total Environ*; 430: 68-74
- Kurniawidjaya, M. L., 2010. Teori dan Aplikasi Kesehatan Kerja. Jakarta : Penerbit Universitas Indonesia
- Kuo, H.W., S F Chang, K Y Wu, F Y Wu, 2003. Chromium (VI) induced oxidative damage to DNA: increase of urinary 8-hydroxydeoxyguanosine concentrations (8-OHdG) among electroplating workers. *Occup Environ Med* ;60:590–594
- Lampe J. W. 1999. Health effect of vegetables and Fruit : Assessing Mechanism of Action in Human experimental Studies . *Am. J. Clin. Nut.* 70 Suppl: 475 S-490S
- Lecomte E, Herbeth B, Pirollet P, Chancerelle, Y, Arnaud J, Musse N, Paille F, Siet, G, Artur, Y, 1994. Effect of Alcohol consumption on Blood antioxidant nutrients and oxidative stress indicators, *Am, J Clin Nutr*, 40 : 255-61
- Liu, W, Chaspoul F, Botta C, De Meo M, Gallice P, 2010. Bioenergetic and DNA alteration of Normal human fibroblast by hexavalent chromium . *Environ Toxicol Pharmacol* ;29 (1):58-63
- Lodovici, M., E. Bigagli. 2009. Biomarkers of induced active and passive smoking damage. *Int J Env Res Public Health.*, 6: 874-888.
- Logorio S., Tagesson C, Forastiere F, Iavorane I., Axelson O., Carere A., 1994. Exposure to benzene and urinary concentration of 8-OHdG, a biological marker of oxidative damage to DNA. *Occup Environ. Med*, 51 (11) 739
- Lou, J. L., Lingzhi J. , Nanxiang W., Yufeng T., Yang S., Ming G., Kecheng L., Xing Z. , Jiliang H., 2013. DNA damage and oxidative stress in human B lymphoblastoid cells after combined exposure to hexavalent chromium and nickel compounds. *Food Chem Toxicol*; 55,533-540
- Luippold R.S., Mundt K.A., Dell L.D., Birk T., 2005. Low-level hexavalent chromium exposure and rate of mortality among US chromate production employees. *J Occup Environ Med* 47:381–385.

- Mancuso T.F, 1997. Chromium as an industrial carcinogen: part I. *Am J Ind Med*, 31:129–39.
- Manuaba, A. 2000. Ergonomi, Keselamatan dan Kesehatan Kerja. Editor : Sritomo Wignyosoebroto dan Stefanus Eko Wiranto, Proceeding seminar Nasional Ergonomi, 2000. Guna Wijaya. Surabaya :1-4
- Marnett, J. L, 1999. Lipid Peroxidation-DNA damage by malondialdehyde. *Mut Res* 424 (1999)83-95.
- Mazzer P.A., Leila M., Rathindra N.B., 2007. Mechanisms of DNA damage and insight into mutations by chromium(VI) in the presence of glutathione. *J. Inorg. Biochem.* 101 , 44-55
- Meibian, Z., Chen Z., Chen Q., Zou H., Lou J., He J., 2008. Investigating DNA damage in tannery workers occupationally exposed to trivalent chromium using comet assay. *Mut. Res.* 654, 45-51
- Miksche, L.W., J. Lewarter, 1997. Health surveillance and biological effect monitoring for chromium exposed workers, *Regul. Toxicol.Pharm.*; 26:94-99
- Mukono, HJ., 2005, *Toksikologi Lingkungan*, Surabaya : Airlangga University Press
- Mussarat, J., 1996. Prognostic and Aetiological Relevance of 8-hydroxyguanosine in Human Breast Carcinogenesis. *Eur. J. Cancer*, 32: 1209-1214
- National Institute for Occupational Safety and health (NIOSH), 2013. *Criteria for a Recommended Standard : Occupational Exposure to Hexavalent Chromium*. U.S. Navy : Department of Health & Human Sciences, Center for Disease Control and prevention, National Institute for Occupational Safety and Health
- Nielsen F, Mikkelsen B.B, Nielsen, JB. , Andersen, HR, Grandjean, P, 1997, *Plasma Malondialdehyd as biomarker for oxidative Stress* : Reference interval and Effects of Life-style Factors, *Clin Chem*, 43;7: 1209-1214
- Nordberg J., Arner E.S., 2001. Reactive oxygen species, antioxidants, and the mammalian thioredoxin system. *Free Radic Biol Med* , 31:1287-1312.
- Notoatmodjo, S., 1989. *Pendidikan Dan Perilaku Kesehatan*. Jakarta : Rineka Cipta

- O'Brien, T.J., Ceryak, S., Patierno, S.R., 2003. Complexities of chromium carcinogenesis: role of cellular response, repair and recovery mechanisms. *Mutat. Res.* 533, 3–36.
- OSHA, 2006. *Health effect of Hexavalent Chromium*. OSHA U.S. Department Of Labour, 1-3
- Palar, H., 2008. *Pencemaran dan Toksikologi Logam Berat*. Jakarta: Rineka Cipta
- Palaniappan, P.L., Karthikeyan, S., 2009. Bioaccumulation and depuration of chromium in the selected organs and whole body tissues of freshwater fish *Cirrhinus mrigala* individually and in binary solutions with nickel. *J. Environ. Sciences (China)* 21, 229–236.
- Pamungkas, I. S., 2007. *Menjadi Pengusaha Elektroplating* Yogyakarta: Penerbit Andi offset
- Park R.M., Bena J.F., Stayner L.T., Smith R.J., Gibb H.J., Lees P.S. 2004. Hexavalent chromium and lung cancer in the chromate industry: a quantitative risk assessment. *Risk Anal* 24:1099–1108.
- Patel, B.P., U.M. Rawal., 2008. Tobacco, antioxidant enzymes, oxidative stress, and genestic susceptibility in oral cancer. *Am.J. Clin. Oncol*, 31: 454-459
- Pearce, E. , 1986, *Anatomi dan Fisiologi untuk Paramedis*, Alih Bahasa Sri Yuliani Handoyo, Jakarta: Gramedia
- Purwanto, Syamsul H., 2005. *Teknologi Industri Elektroplating*. Semarang: Badan Penerbit Universitas Diponegoro.
- Ragunathan, V. K., Elizabeth M. E., M. Helen G., 2009. Response to chronic exposure to hexavalent chromium in human monocytes. *Toxicology in Vitro*, 647-652
- Rao, M.V., Chawla, S.L., Sharma, S.R., 2009. Protective role of vitamin E on nickel and/or chromium induced oxidative stress in the mouse ovary. *Food Chem Toxicol* 47, 1368–1371
- Rice, TM, Clarke, RW., Goldski, JJ., Mutari AE., Jiang NF., Hauser R and Kelleher P, 2001. Differential Ability of Transition to Induced Pulmonary Inflammation, *J. Toxicol Appl Pharmacol*, 177 (1) 46-53
- Saleh, A. , 1990. *Teknik Pelapisan Nikel-Chromium*. Bandung : Balai Besar Pengembangan Industri Logam dan Mesin

- Salisbury, W.D., Chin, W.W., Gopal, A., Newsted, P.R. 2002. Research report: Better theory through measurement developing a scale to capture consensus on appropriation. *Inf Syst Res*, 13 : 91-103
- Sastroasmoro, S., Ismael S., 2011. *Dasar-dasar Metodologi Klinis*, Edisi ke-4, Jakarta : Sagung Seto
- Setyaningsih, Y., Siswi J., Septo P.A., 2008. Modul Upaya Kesehatan Kerja bagi Pengrajin Tahu dan Tempe, Semarang : FKM UNDIP
- Shi, X., Chiu, A., Chen, C.T., Halliwell, B., Castranova, V., Vallyathan, V., 1999. Reduction of chromium (VI) and its relationship to carcinogenesis. *J. Toxicol. and Environ. Health, Part B: Critical Reviews* 2 (1), 87–104.
- Shi X, Mao Y, Knapton A.D., Ding M., Rojanasakul Y., Gannett P.M., Dalal N., Liu K., 1994. Reaction of Cr(VI) with ascorbate and hydrogen peroxide generates hydroxyl radicals and causes DNA damage: role of a Cr(IV)-mediated Fenton-like reaction. *Carcinogenesis*, 15:2475-2478.
- Shrivastava, R., R.K. Upreti, P.K. Seth, U.C. Chaturvedi, 2002. Effects of chromium on the immune system. *FEMS Immunology and Medical Microbiology* 34, 1-7
- Sobaszek A., Boulenguez C., Frimat P., Robin H., Haguenoer J.M., Edme J.L., 2000. Acute respiratory effects of exposure to stainless steel and mild steel welding fumes. *J. Occup. Environ. Med.* 42:923–931.
- Songhoian, S., 2011. Heavy Metal Toxicity. *Medscape reference*, 1-2
- Standeven, A.M., Wetterhahn, K.E., 1991. Possible role of glutathione in chromium (VI) metabolism and toxicity in rats. *Pharmacol. and Toxicol.* 68, 469–476
- Sudarsana, Eka, 2013. *Hubungan kandungan Kromium (Cr) dalam urine dengan gangguan fungsi ginjal pada pekerja pengrajin pelapisan logam di kabupaten Tegal*. Tesis. Semarang : Program Pascasarjana Universitas Diponegoro
- Soedirman, 2012. Higiene Perusahaan. Bogor : El Musa Press
- Sudrajat, Wawan K., Marlon I.A., 1998. *Manajemen Lingkungan Kerja*. Jakarta : Direktorat Jenderal pendidikan Tinggi. Departemen Pendidikan dan Kebudayaan
- Sugiyono, 2010, *Statistika Untuk Penelitian*, Bandung : Alfabeta

- Suma'mur, PK 2009. *Higiene Perusahaan dan Kesehatan Kerja (Hiperkes)*. Jakarta : Sagung Seto
- Tarwaka, 2008. *Keselamatan dan Kesehatan Kerja :Manajemen Implementasi K3 di Tempat Kerja*. Surakarta: Harapan Press
- Tenkate TD, 1999. Occupational Exposure to Ultraviolet Radiation : A Health Risk Assesment. *J Rev Environ Health*, 14; 187-209
- Tresnaningsih, E., 1990. *Kesehatan Lingkungan Kerja Logam Berat di Tempat Kerja, Dalam : Upaya Kesehatan Kerja Sektor Informal* , Dirjen PKM Depkes RI . Direktorat Bina PSM
- Valavanidis, A., Thomais V., Constantinos F., 2009. 8-hydroxy-2'-deoxyguanosine (8-OHdG); A Critical Biomarker of Oxidative Stress and Carcinogenesis, *J. Environ Scie Health Part C*, 27 : 120-139
- Valko M., Rhodes C.J., Moncol J., Izakovic M., Mazur M., 2006. Free radicals, metals and antioxidants in oxidative stress-induced cancer. *Chem Biol Interact*.160(1):1-40.
- Wang S., Leonard S.S., Ye J., Ding M., Shi X., 2000. The role of hydroxyl radical as a messenger in Cr(VI)-induced p53 activation. *Am J Physiol Cell Physiol*, 279 :868-875
- Wang TC, Song YS, Wang H, Zhang J, Yu SF, Gu YE rt al, 2012. Oxidative DNA Damage and Global DNA hypomethylation are related to Folate deficiency in chromate manufacturing worker, *J. Hazard Mater*; 213-214: 440-6
- WHO a, 1995. *Deteksi Dini Penyakit Akibat kerja*, Jakarta : EGC
- WHO b, 1997. *The Role of Occupational Health Services in the promotion of Work Ability and health. Report on a WHO Consultation Turku, Copenhagen*
- Wijaya A. 1996, *Radikal Bebas dan Parameter Status antioksidan*. Forum Diagnosticum . Lab Klinik Prodia 1 :1-12
- Winarsi , H.D, Muchtadi , F.R., Zakaria, Purwanto B, 2003. *Status antioksidan Wanita Premenopause yang diberi Minuman Suplemen 'Susumeno'*. Prosiding Seminar Nasional PATPI, Yogyakarta, 22-23 Juli 2003
- Winarsi, H., 2007. *Antioksidan Alami dan radikal Bebas*, Yogyakarta: Kanisius

- Wu, D., and Cederbaum, A.I, 1999. Ethanol-induced apoptosis to HepG2 cell lines expressing human cytochrome P450 2E1. *Alcoholism: Clin Exp Res*;23:67-76
- Wu LL, Chiou CC, Chang PY., Wu JT, 2004. Urinary OHdG : a marker of oxidative stress to DNA and risk factor for cancer, atherosclerosis and diabetics, *Clin Chim Acta* ;339 (1-2): 1-9
- Yamin, S., Heri K, 2011. *Generasi baru Mengolah data Penelitian Dengan Partial Least Square Path Modelling*, Jakarta : Salemba Infotek
- Ye J., Wang S., Leonard S.S., Sun Y., Butterworth L., Antonini J., Ding M., Rojanasakul Y., Vallyathan V., Castranova V., Shi X., 1999. Role of reactive oxygen species and p53 in chromium(VI)-induced apoptosis. *J Biol Chem* , 274:34974-34980.
- Yolanda H., Johanna G., Hanna L K., Lennart M., Inger O W., 2010. Bioaccessibility, bioavailability and toxicity of commercially relevant iron- and chromium-based particles: in vitro studies with an inhalation perspective. *Particle and Fibre Toxicol.* , 7:23
- Zhang, X.H., Xuan Z., Xu C.W., Li F.J., Zhang P.Y., Cai X.J., Qing C., Xiau B.R., Jian Z.C., Qiang W., Yi M.Z, 2011. Chronic occupational exposure to hexavalent chromium causes DNA damage in electroplating workers. *BMC Public Health*, 11:224
- Zeins, M., Rivard, C.I., Malo, J.L., Gautrin D., 2005. Is Metal Fume Fever a Determinant of Welding Related Respiratory Symptoms and/or Increased Bronchial Responsiveness? A Longitudinal Studi, *J. Occup Environ Med.* 62; 688-694
- Zens, C., Dickerson B, 1994. *Occupational Medicine* 3rd ed, Chapter 35 : Chromium and it's compound . Missouri : Mosby
- Ziech, D., Franco R ., 2011. Reactive Oxygen Species (ROS) – Induced Genetic and Epigenetic. Alterations in Human Carcinogenesis. *Mut Res.*, 711: 167-173.