

Neues aus der EDV

Die aktuelle Recherche

betreut von J. Brandt¹ und Heidelore Fiedler²

– Organische Schadstoffe in Abgasen

bearbeitet von R. Kolb³

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Einführung

Die Recherche ist in der bibliographischen Datenbank CA FILE des Chemical Abstract Service (CAS) durchgeführt worden. Die verwendeten englischen Suchworte entsprechen den Begriffen

- Abgas, Emission
- Fahrzeug, Auto, Diesel, Verbrennungsmaschine
- Partikel, Aerosol, organische Schadstoffe
- polycyclische aromatische Kohlenwasserstoffe, PAH
- gesundheitsgefährdend, mutagen, carcinogen, cancerogen

Patente sowie Arbeiten über die Reinigung von Abgasen durch Katalysatoren oder Filter sind nicht berücksichtigt.

Die Recherche erfaßt die im ersten Halbjahr 1988 in den Chemical Abstracts (CA) referierten Publikationen und ergibt 47 Literaturnachweise. Wegen des zeitlichen Abstands zwischen der Veröffentlichung der Originalarbeit und der des CA-Referates sind darunter auch Publikationen aus der Zeit vor 1988.

Rechercheergebnis*

Für die aufgefundenen Dokumente werden im folgenden wiedergegeben

- Band-, Heft- und Referatenummer von CA
- Englischer Titel der Originalarbeit
- Name und Anschrift der Autoren
- Fundstelle der Originalarbeit
 - Zeitschriften-, Serien- oder Monographietitel,
 - Band- und ggf. Heftnummer, Seitenangabe
 - Sprache, Veröffentlichungsjahr, CODEN und ISSN der Zeitschrift
- Stichworte (CA-KEYWORDS – KW)

Aus Platzgründen sind die ebenfalls online verfügbaren Abstracts (Referatetexte) sowie die Index Terms (IT) aus Index Heading (Registerstichwort) und Text Modification (Freitextergänzung) nicht aufgeführt.

ANSWER 1

CA108(26):226123c Vehicular air pollution and measures for its control. Pundir, B. P.; Das, Sudhakar; Krishna, R. (Indian Inst. Pet., Dehra Dun 248 005, India). Res. Ind., 32(4), 240-50 (Eng) 1987. CODEN: RSI-DAO. ISSN: 0034 – 513X.

KW exhaust air pollution control India

ANSWER 2

CA108(26):226033y Emission measurements at firing installations. Van Ingen, G.; Marsman, N. (Krachtwerktuigen, Amersfoort, Neth.). PT-Procestech., 43(3), 38 – 41 (Neth) 1988. CODEN: PTPTBP. ISSN:0032 – 4094.

KW exhaust gas turbine analysis; nitrogen oxide detn turbine exhaust; particulate detn gas turbine exhaust; std air pollution gas turbine

ANSWER 3

CA108(24):209413e 1-Hydroxypyrene in urine as a biological indicator of exposure to polycyclic aromatic hydrocarbons in several work environments. Jongeneelen, F. J.; Anzion, R. B. M.; Scheepers, P. T. J.; Bos, R. P.; Henderson, P. T.; Nijenhuis, E. H.; Veenstra, S. J.; Brouns, R. M. E.; Winkes, A. (Dep. Toxicol., Univ. Nijmegen, Nijmegen 6500 HB, Neth.). Ann. Occup. Hyg., 32(1), 35 – 43 (Eng) 1988. CODEN: AOHYA3. ISSN: 0003 – 4878.

KW occupational exposure arom hydrocarbon urine; health hazard arom hydrocarbon exposure; hydroxypyrene urine arom hydrocarbon exposure

ANSWER 4

CA108(24):209259j Methods of sampling and analysis for sulfur dioxide, oxides of nitrogen and particulate matter in the exhaust gases of large combustion plants. Brieda, F.; Bull, K.; Buehne, K. V.; Callais, M.; Menard, T.; Wallin, S. C.; Woodfield, M. J. (Warren Spring Lab., Stevenage, UK). Report, EUR-10645-EN, 156 pp. Avail. CEC From: Energy Res. Abstr. 1987, 12(23), Abstr. No. 48321 (Eng) 1986.

KW review flue gas analysis EEC; sulfur dioxide detn EEC review; nitrogen oxide detn EEC review; particulate detn EEC review

ANSWER 5

CA108(23):199913b Study of mutagenic effects induced by direct exposure of biological systems to automobile emissions. Courtois, Y. A.; Vanrell, B.; Festy, B.; Prats, A.; Cabridenc, R. (Lab. Hyg. Ville Paris, Paris

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75004, Fr.). *Pollut. Atmos., No. Spec.*, 143 – 51 (Fr) 1987. CODEN: POATBH. ISSN: 0032 – 3632.

KW diesel exhaust gas mutagenicity

ANSWER 6

CA108(23):199572q Development of biological exposure tests for electrophilic substances. An efficient photometric method for the determination of the excretion of mercapturic acid in urine. Zehner, C.; Bergert, K. D.; Friedrich, K.; Voigt, H. (*Arbeitshyg. Zent., Niederdorf, Ger. Dem. Rep.*). *Z. Gesamte Hyg. Ihre Grenzgeb.*, 33(12), 634 – 5 (Ger) 1987. CODEN: ZHYGAM. ISSN: 0049 – 8610.

KW mercapturate urine spectrometry health hazard; diesel exhaust gas urine mercapturate

ANSWER 7

CA108(22):191882v Preliminary study on aerosol pollutant sources in Yaohuamen, Nanjing. Zhang, Yuanhang; Tang, Xiaoyan; Bi, Mutian; Tang, Dagang; Zhao, Deshan (Dep. Tech.-Phys., Peking Univ., Beijing, Peop. Rep. China). *Zhongguo Huanjing Kexue*, 7(5), 39 – 44 (Ch) 1987. CODEN: ZHKEEL.

KW aerosol pollutant source Nanjing China; suspended particulate pollution Nanjing China; trace element source atm aerosol

ANSWER 8

CA108(22):191864r Management of carcinogenic air emissions: a case study of a power plant. Brown, Halina Szejnwald (Cent. Technol., Environ. Dev., Clark Univ., Worcester, MA 01610, USA). *JAPCA*, 38(1), 15 – 21 (Eng) 1988. CODEN: JIJME4.

KW power plant cancer public risk; exhaust diesel power plant cancer

ANSWER 9

CA108(22):191842g Measurement of polynuclear aromatic hydrocarbon in particulates and gaseous unburnt hydrocarbon from diesel engines. Yamane, Koji; Chikahisa, Takemi; Miyamoto, Noboru; Murayama, Tadashi (Dep. Mech. Eng., Hokkaido Univ., Sapporo, Japan). *Kogakubu Kenkyu Hokoku (Hokkaido Daigaku)* (138), 5 – 13 (Eng) 1988. CODEN: HDKKA.

KW particulate detn diesel exhaust; polycyclic arom hydrocarbon detn exhaust

ANSWER 10

CA108(22):191827f The on-the-road measurement of emissions from gasoline and diesel engined vehicles. Potter, C. J. (Dep. Trade Ind., Warren Spring Lab., Stevenage/Herts. SG1 2BX, UK). *Pollut. Atmos., No. Spec.*, 57 – 69 (Eng) 1987. CODEN: POATBH. ISSN: 0032 – 3632.

KW sampler exhaust gas pollutant detn; diesel exhaust pollutant detn sampler; nitrogen oxide detn exhaust sampler; hydrocarbon detn exhaust gas sampler; carbon monoxide detn exhaust sampler; particulate detn diesel exhaust sampler

ANSWER 11

CA108(21):181920s Direct-acting mutagenicity of diesel particulate extract is unchanged by addition of neat

aromatic compounds to diesel fuel. Jensen, Trescott E.; Young, Willie; Ball, James C.; Freeman, Lois E. (Ford Mot. Co., Dearborn, MI 48121, USA). *JAPCA*, 38(1), 56 – 8 (Eng) 1988. CODEN: JIJME4.

KW diesel fuel arom compd mutagenicity

ANSWER 12

CA108(21):181913s Prediction of carcinogenicity of polynuclear aromatic hydrocarbons on the basis of their chemical structures. Miyashita, Yoshikatsu; Okuyama, Toru; Yamaura, Kazutomo; Jinno, Kiyokatsu; Sasaki, Shinichi (Sch. Mater. Sci., Toyohashi Univ. Technol., Toyohashi 440, Japan). *Anal. Chim. Acta*, 202, 237 – 40 (Eng) 1987. CODEN: ACACAM. ISSN: 0003 – 2670.

KW carcinogenicity polycyclic arom hydrocarbon structure

ANSWER 13

CA108(20):172697x IACP (Integrated Air Cancer Project) emissions: transformations and fate. Cupitt, L. T.; Claxton, L. D.; Shepson, P. B.; Kleindienst, T. E. (Atmos. Sci. Res. Lab., Environ. Prot. Agency, Research Triangle Park, NC, USA). Report, EPA/600/D-87/211; Order No. PB87-209235, 12 pp. Avail. NTIS From: Gov. Rep. Announce. Index (U. S.) 1987, 87(20), Abstr. No. 745,903 (Eng) 1987.

KW mutagenicity gas air pollution; wood burning flue gas mutagenicity; exhaust gas mutagenicity

ANSWER 14

CA108(20):172691r Factors influencing the composition and quantity of passenger car refueling emissions. Part 2. Braddock, J. N. (Atmos. Sci. Res. Lab., Environ. Prot. Agency, Research Triangle Park, NC, USA). Report, EPA/600/D-87/234; Order No. PB87-212775, 37 pp. Avail. NTIS From: Gov. Rep. Announce. Index (U. S.) 1987, 87(21), Abstr. No. 748,835 (Eng) 1987.

KW automobile refueling hydrocarbon emission gasoline; fuel vapor emission car

ANSWER 15

CA108(20):172609v Continuous measurement of diesel particulate emissions. Cha, Soyong; Black, Frank; King, Foy (Univ. Illinois, Chicago, IL, USA). *JAPCA*, 38(3), 252 – 7 (Eng) 1988. CODEN: JIJME4.

KW org carbon detn diesel particulate; elemental carbon detn diesel particulate; carbon detn diesel particulate exhaust

ANSWER 16

CA108(20):172607t Diesel emissions: unregulated pollutants. Lopez, B.; Maslet, P.; Person, A.; Degobert, P. (Union Tech. Automob. Motorcycle Cycle, Monterey F 91310, Fr.). *Pollut. Atmos., No. Spec.*, 113 – 23 (Fr) 1987. CODEN: POATBH. ISSN: 0032 – 3632.

KW diesel exhaust analysis unregulated pollutant

ANSWER 17

CA108(20):172606s Diesel emissions: regulated pollutants and particles. Marduel, J. L.; Boulaud, D.; Gaudi-

chet, A. (Union Tech. Automob. Motorcycle Cycle, Montlhery F 91310, Fr.). *Pollut. Atmos.*, No. Spec., 100-12 (Fr) 1987. CODEN: POATBH. ISSN: 0032-3632.

KW diesel exhaust analysis system app; particulate diesel exhaust analysis; hydrocarbon detn diesel exhaust

ANSWER 18

CA108(18):160656v A qualitative UV spectroscopic method as an initial guide to source origins of polycyclic aromatic hydrocarbons. Lee, Hian Kee; Wright, G. J.; Swallow, W. H. (Dep. Chem., Natl. Univ. Singapore, Kent Ridge 0511, Singapore). *Environ. Pollut.*, 49(3), 167-75 (Eng) 1988. CODEN: ENPOEK. ISSN: 0269-7491.

KW polycyclic arom hydrocarbon detection environment UV; source origin polycyclic arom hydrocarbon environment

ANSWER 19

CA108(18):155722j The New York City bus terminal diesel emissions study. Measurement and collection of diesel exhaust for chemical characterization and mutagenic activity. Burton, Robert M.; Suggs, Jack C.; Jungers, Robert H.; Lewtas, Joellen (U. S. Environ. Prot. Agency, Research Triangle Park, NC, USA). *Proc. - APCA Annu. Meet.*, 80th(Vol. 1), 87/1.7, 15 pp. (Eng) 1987. CODEN: PAAME3. ISSN: 0193-9688.

KW diesel exhaust gas chem mutagenicity; exhaust diesel ambient air pollution

ANSWER 20

CA108(18):155682w Present status of preventive measures against suspended particulate matter in Japan. Shiozawa, Kiyoshige; Okamoto, Shinichi (Waseda Univ., Tokyo, Japan). *Proc. - APCA Annu. Meet.*, 80th(Vol. 7), 87/106C.28, 9 pp. (Eng) 1987. CODEN: PAAME3. ISSN: 0193-9688.

KW particulate air pollution model

ANSWER 21

CA108(18):155616c Size distributed receptor modeling of atmospheric aerosol. Rau, J. A.; Huntzicker, J. J.; Edgerton, S. A. (Oregon Grad. Cent., Beaverton, OR, USA). *Proc. - APCA Annu. Meet.*, 80th(Vol. 1), 87/14.4, 11 pp. (Eng) 1987. CODEN: PAAME3. ISSN: 0193-9688.

KW chem mass balance modeling pollution; wood combustion pollution source modeling; exhaust gas pollution source modeling

ANSWER 22

CA108(17):145186y Mutagenicity and nitropyrene concentration of indoor air particulates exhausted from a kerosine heater. Kinouchi, Takemi; Nishifuji, Keiko; Tsutsui, Hideshi; Hoare, Sadako Louise; Ohnishi, Yoshinari (Sch. Med., Univ. Tokushima, Tokushima 770, Japan). *Jpn. J. Cancer Res. (GANN)*, 79(1), 32-41 (Eng) 1988. CODEN: JJCREP. ISSN: 0910-5050.

KW nitropyrene space heater kerosine; mutation nitropyrene kerosine heater

ANSWER 23

CA108(17):145122z Catalyst-free sodium borohydride reduction as a guide in the identification of direct-acting Ames assay mutagens in diesel-particle extracts. Ball, James C.; Young, Willie C.; Salmeen, Irving T. (Res. Staff, Ford Mot. Co., Dearborn, MI 48121, USA). *Mutat. Res.*, 192(4), 283-7 (Eng) 1987. CODEN: MUREAV. ISSN: 0027-5107.

KW diesel particle mutagen sodium borohydride redn

ANSWER 24

CA108(16):137047p Measurement of PAH and nitro-PAH from a heavy-duty diesel engine. Hoekman, S. K.; Ingham, M. C. (Chevron Res. Co., Richmond, CA, USA). *Proc. - APCA Annu. Meet.*, 80th(Vol. 1), 87/1.4, 22 pp. (Eng) 1987. CODEN: PAAME3. ISSN: 0193-9688.

KW polyarom hydrocarbon diesel exhaust; nitro polycyclic arom hydrocarbon exhaust

ANSWER 25

CA108(16):136935q Relationships among time-resolved roadside measurements of benzene, toluene, xylenes and carbon monoxide. Mo, S. H.; Gibbs, R. E.; Hill, B. J.; Johnson, R. E.; Webster, W. J.; Whitby, R. A. (New York State Dep. Environ. Conserv., Albany, NY, USA). *Proc. - APCA Annu. Meet.*, 80th(Vol. 1), 87/1.6, 15 pp. (Eng) 1987. CODEN: PAAME3. ISSN: 0193-9688.

KW carbon monoxide hydrocarbon air correlation; exhaust gas pollutant correlation air

ANSWER 26

CA108(16):136932m New York City bus terminal diesel emissions study: measurement and collection of diesel exhaust for chemical characterization and mutagenic activity. Burton, R. M.; Suggs, J. C.; Jungers, R. H.; Lewtas, J. (Environ. Monit. Syst. Lab., Research Triangle Park, NC, USA). Report, EPA/600/D-87/180; Order No. PB87-195384, 17 pp. Avail. NTIS From: Gov. Rep. Announce. Index (U. S.) 1987, 87(18), Abstr. No. 740,288 (Eng) 1987.

KW bus diesel exhaust mutagenicity pollution

ANSWER 27

CA108(15):126100z Decreased superoxide anion production in alveolar macrophages of rats exposed to diesel engine exhaust. Suzuki, Takahito; Ikeda, Shingo; Kanoh, Takako (Tokyo Metrop. Res. Lab. Public Health, Tokyo 160, Japan). *Kenkyu Nenpo - Tokyo-toritsu Eisei Kenkyusho* (38), 267-72 (Japan) 1987. CODEN: TRENAF. ISSN: 0082-4771.

KW diesel engine exhaust alveolus macrophage

ANSWER 28

CA108(14):117951a Fractionation of polar polynuclear aromatic hydrocarbons present in industrial emissions and atmospheric samples and their determination by gas chromatography-mass spectrometry. Ciccio, P.; Brancaleoni, E.; Cecinato, A.; Di Palo, C.; Buttini, P.; Liberti, A. (Ist. Inquin. Atmos., CNR, Rome 00016, Italy). *J. Chromatogr.*, 351(3), 451-64 (Eng) 1986. CODEN: JOCRAM. ISSN: 0021-9673.

KW polycyclic arom hydrocarbon detn gas; liq chromatog fractionation arom hydrocarbon; waste gas polyarom hydrocarbon detn

ANSWER 29

CA108(12):100371p Effect of different engine designs on the formation of exhaust emissions. Hassel, D.; Jost, P.; Waldeyer, H. (Cologne, Fed. Rep. Ger.). TU, 29(1), 25 - 7 (Ger) 1988. CODEN: TUSZA6. ISSN: 0376 - 1185.

KW exhaust gas emission model calcn

ANSWER 30

CA108(12):100338h The role of the diesel aerosol in the air pollution of Vienna. Horvath, H.; Kreiner, I.; Norek, C.; Georgi, B. (Inst. Exp. Phys., Univ. Vienna, Vienna A-1090, Austria). J. Aerosol Sci., 18(6), 817 - 19 (Eng) 1987. CODEN: JALSB7. ISSN: 0021 - 8502.

KW diesel particulate air Vienna Austria; soot diesel air Vienna Austria; exhaust diesel pollution Vienna Austria

ANSWER 31

CA108(12):100313w Analysis of halogenated polycyclic aromatic hydrocarbons in urban air, snow and automobile exhaust. Haglund, Peter; Alsberg, Tomas; Bergman, Aake; Jansson, Bo (Dep. Anal. Chem., Univ. Stockholm, Stockholm S-106 91, Swed.). Chemosphere, 16(10 - 12), 2441 - 50 (Eng) 1987. CODEN: CSMHAF. ISSN: 0045 - 6535.

KW halogenated polycyclic arom hydrocarbon air; snow halogenated polycyclic arom hydrocarbon; exhaust halogenated polycyclic arom hydrocarbon

ANSWER 32

CA108(12):100282k Progress in the analysis of diesel soot particles. Levsen, K.; Schilhabel, J.; Puttins, U. (Fraunhofer Inst. Toxikol. Aerosolforsch., Hannover 3000, Fed. Rep. Ger.). J. Aerosol Sci., 18(6), 845 - 8 (Eng) 1987. CODEN: JALSB7. ISSN: 0021 - 8502.

KW diesel exhaust particle analysis evaluation; polycyclic arom hydrocarbon detn exhaust; nitro polycyclic arom hydrocarbon detn; oxygenated polycyclic arom hydrocarbon detn

ANSWER 33

CA108(12):97552r Heavy-duty engine testing report: correlation testing of Cummins NTCC-400. Baines, T. M. (Stand. Dev. Support Branch, EPA, Ann Arbor, MI, USA). Report, EPA/AA/SDSB-87/1; Order No. PB87-196482, 51 pp. Avail. NTIS From: Gov. Rep. Announce. Index (U. S.) 1987, 87(18), Abstr. No. 740,295 (Eng) 1986.

KW diesel engine exhaust gas fuel; air pollution diesel engine fuel

ANSWER 34

CA108(11):89300s Comparative investigation on the genotoxicity of city smog and automobile exhaust particulates. Hadnagy, W.; Seemayer, N. H. (Med. Inst. Environ. Hyg., Univ. Duesseldorf, Duesseldorf D-4000, Fed. Rep. Ger.). J. Aerosol Sci., 18(6),

697-9 (Eng) 1987. CODEN: JALSB7. ISSN: 0021 - 8502.

KW particle ext city smog genotoxicity; exhaust gas particle ext genotoxicity

ANSWER 35

CA108(11):89096e Pulmonary phospholipidosis in rats respiring aircontaining diesel particulates. Eskelson, Cleamond D.; Chvapil, Milos; Strom, Kenneth A.; Vostal, Jaroslav J. (Health Sci. Cent., Univ. Arizona, Tucson, AZ 85724, USA). Environ. Res., 44(2), 260 - 71 (Eng) 1987. CODEN: ENVRAL. ISSN: 0013 - 9351.

KW diesel particulate lung phospholipid; lipogenesis liver diesel particulate lung injury

ANSWER 36

CA108(10):81211t Effects of exposure to vehicle exhaust on health. Ulfvarson, Ulf; Alexandersson, Rolf; Aringer, Leif; Svensson, Eva; Hedenstierna, Goeran; Hogstedt, Christer; Holmberg, Bo; Rosen, Gunnar; Sorsa, Marja (R. Inst. Technol., Stockholm, Swed.). Scand. J. Work, Environ. Health, 13(6), 505 - 12 (Eng) 1987. CODEN: SWEHDO. ISSN: 0355 - 3140.

KW health hazard exhaust gas exposure; occupational exposure exhaust gas hazard; mutagen exhaust occupational exposure hazard; particulate exhaust occupational exposure hazard

ANSWER 37

CA108(10):81089j Analysis of polynuclear aromatic hydrocarbons in roadside deposits containing asphalt dusts. Tamagawa, Katsumi; Aihara, Yoshiyuki; Mishima, Yasuko; Seki, Toshihiko; Tsunoda, Akira (Sendai Munic. Inst. Public Health, Sendai 983, Japan) 1987. CODEN: KOTTAM.

KW polycyclic arom hydrocarbon road dust

ANSWER 38

CA108(10):81073z Polar neutral organic compounds (POCN) in urban aerosols. Part 2. Measurement of emissions from domestic sources and vehicle exhausts and in air samples in West Berlin. Moriske, H. J.; Freise, R.; Schneider, C.; Rueden, H. (Fachgebiet Hyg., Tech. Univ. Berlin, Berlin D-1000/45, Fed. Rep. Ger.). Zentralbl. Bakteriол., Mikrobiol. Hyg., Ser. B, 185(1 - 2), 72 - 104 (Ger) 1987. CODEN: ZBMMEA.

KW urban aerosol arom hydrocarbon Berlin

ANSWER 39

CA108(8):61496m Identification and quantification of polycyclic aromatic hydrocarbons in particulate combustion residues from automobile engines by GC-MS with thermodesorption. Puettmann, W. (Rheinisch-Westfaelische Tech. Hochsch. Aachen, Aachen D-5100, Fed. Rep. Ger.). Wiss. Umwelt (3), 136 - 42 (Ger) 1987. CODEN: WUISD5. ISSN: 0170 - 6977.

KW polycyclic arom hydrocarbon detn exhaust; gas chromatog polyarom hydrocarbon exhaust; mass spectrometry polyarom hydrocarbon exhaust

ANSWER 40

CA108(6):43073s Source resolution of the fine carbonaceous aerosol by principal component-stepwise regression analysis. Pratsinis, Sotiris E.; Zeldin, Melvin D.; Ellis, Elizabeth C. (Cent. Aerosol Proc., Univ. Cincinnati, Cincinnati, OH 45221 - 0171, USA). *Environ. Sci. Technol.*, 22(2), 212 - 16 (Eng) 1988. CODEN: ESTHAG. ISSN: 0013 - 936X.

KW carbonaceous aerosol atm source California; exhaust carbonaceous aerosol pollution California; fly ash carbonaceous aerosol California; soil aerosol atm California; marine aerosol atm California

ANSWER 41

CA108(6):43047m Determination of nitro-polynuclear aromatic hydrocarbons in air and diesel particulate matter using liquid chromatography with electrochemical and fluorescence detection. MacCrehan, W. A.; May, W. E.; Yang, S. D.; Benner, B. A., Jr. (Cent. Anal. Chem., Natl. Bureau Standards, Gaithersburg, MD 20899, USA). *Anal. Chem.*, 60(3), 194 - 9 (Eng) 1988. CODEN: ANCHAM. ISSN: 0003 - 2700.

KW nitro polycyclic arom hydrocarbon detn; air nitro polyarom hydrocarbon detn; particulate nitro polyarom hydrocarbon detn; diesel particulate nitro polyarom detn; electrochem detection nitro polyarom hydrocarbon; fluorescence detection nitro polyarom hydrocarbon; liq chromatog nitro polyarom hydrocarbon

ANSWER 42

CA108(4):26415n The influence of humidity, sunlight, and temperature on the daytime decay of polyaromatic hydrocarbons on atmospheric soot particles. Kamens, Richard M.; Guo, Zhishi; Fulcher, James N.; Bell, Douglas A. (Dep. Environ. Sci. Eng., Univ. North Carolina, Chapel Hill, NC 27514, USA). *Environ. Sci. Technol.*, 22(1), 103 - 8 (Eng) 1988. CODEN: ESTHAG. ISSN: 0013 - 936X.

KW polycyclic arom hydrocarbon decay soot; sunlight polyarom hydrocarbon decay soot; humidity polyarom hydrocarbon decay soot; temp polyarom hydrocarbon decay soot

ANSWER 43

CA108(4):26413k A composite receptor method applied to Philadelphia aerosol. Dzubay, Thomas G.; Stevens, Robert K.; Gordon, Glen E.; Olmez, Ilhan; Sheffield, Ann E.; Courtney, William J. (Atmos. Sci. Res. Lab., U. S. Envir. Prot. Agency, Research Triangle Park, NC 27711, USA). *Environ. Sci. Technol.*, 22(1), 46 - 52 (Eng) 1988. CODEN: ESTHAG. ISSN: 0013 - 936X.

KW aerosol air pollutant source modeling

ANSWER 44

CA108(3):17601t Contribution of polycyclic aromatic hydrocarbons and nitro-derivatives to the carcinogenic impact of diesel engine exhaust condensate evaluated by implantation into the lungs of rats. Grimmer, G.; Brune, H.; Deutsch-Wenzel, R.; Dettbarn, G.; Jacob, J.; Naujack, K. W.; Mohr, U.; Ernst, H. (Biochem. Inst. Environ. Carcinog., Ahrensburg-Grosshansdorf

2070, Fed. Rep. Ger.). *Cancer Lett.* (Shannon, Irel.), 37(2), 173 - 80 (Eng) 1987. CODEN: CALEDQ. ISSN: 0304 - 3835.

KW diesel exhaust lung tumor arom hydrocarbon

ANSWER 45

CA108(2):10571z Study on the aerosol in diesel exhaust. Baba, Akira; Murabayashi, Masayuki; Matsuno, Takeo (Inst. Environ. Sci. Technol., Yokohama Natl. Univ., Yokohama 240, Japan). *Yokohama Kokuritsu Daigaku Kankyo Kagaku Kenkyu Senta Kiyo*, 13(1), 51 - 6 (Japan) 1986. CODEN: YKDKDA. ISSN: 0286 - 584X.

KW exhaust gas diesel aerosol analysis

ANSWER 46

CA108(2):8755u Diesel engine fueled with vegetable oils of tropical origin. Comparison of performances and exhaust emissions in a power-plant diesel engine. Charpentier, C.; Fouet, J. P.; Murat, M. (Lab. Thermodyn. Appl. Mach., Univ. Pierre et Marie Curie-Paris VI, St.-Cyr-l'Ecole F 78210, Fr.). *Entropie*, 23(134), 27 - 33 (Fr) 1987. CODEN: ENTPA5. ISSN: 0013 - 9084.

KW vegetable oil fuel diesel engine; power diesel engine coconut oil; emission diesel engine cottonseed oil

ANSWER 47

CA108(2):8559h Reduction of NOx and particulate emissions in the diesel combustion process. Wade, W. R.; Hunter, C. E.; Trinker, F. H.; Cikanek, H. A. (Ford Motor Co., Dearborn, MI 48121, USA). *J. Eng. Gas Turbines Power*, 109(4), 426 - 34 (Eng) 1987. CODEN: JETPEZ. ISSN: 0742 - 4795.

KW diesel engine nitrogen oxide abatement; combustion diesel engine air pollution; model fuel combustion emission control

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