

Author Index

- Albert Vannice, M., see Zhang, X. 41
- Allali, N., Leblanc, A., Danot, M., Geantet, C., Vrinat, M. and Breyse, M.
Catalytic properties of pure and Ni doped niobium sulfide catalysts for hydrodesulfurization 137
- Arai, H., see Eguchi, K. 297
- Aratani, N., see Kikuchi, E. 35
- Athota, K., see Greene, H. 289
- Atwood, G., see Greene, H. 289
- Avila, P., see Blanco, J. 9
- Bahamonde, A., see Blanco, J. 9
- Baker, R.T., see Metcalfe, I.S. 285
- Baldacci, A., see Orsenigo, C. 15
- Baltanás, M.A., see Martín, C.A. 221
- Belinchón, J.L., see Blanco, J. 9
- Bellussi, G., see Tabata, T. 91
- Beretta, A., see Orsenigo, C. 15
- Binder-Begsteiger, I.
Improved emission control due to a new generation of high-void-fraction SCR-DeNO_x catalysts 3
- Blanco, J., Avila, P., Bahamonde, A., Yates, M., Belinchón, J.L., Medina, E. and Cuevas, A.
Influence of the operation time on the performance of a new SCR monolithic catalyst 9
- Bobrova, L., see Noskov, A. 315
- Bordiga, S., see Zecchina, A. 403
- Bregani, F., see Orsenigo, C. 15
- Breyse, M., see Allali, N. 137
- Buijs, W.
Catalytic reduction of polyhalogenated aromatic hydrocarbons by Cu(I) under Dow-Phenol conditions 159
- Bunimovich, G., see Noskov, A. 315
- Bunimovich, G.A., see Matros, Y.Sh. 307
- Burch, R., Loader, P.K. and Urbano, F.J.
Some aspects of hydrocarbon activation on platinum group metal combustion catalysts 243
- Busca, G.
The use of vibrational spectroscopies in studies of heterogeneous catalysis by metal oxides: an introduction 323
- Busca, G.
Infrared studies of the reactive adsorption of organic molecules over metal oxides and of the mechanisms of their heterogeneously-catalyzed oxidation 457
- Calis, H.P., see Ito, E. 123
- Cassano, A.E., see Martín, C.A. 221
- Castiglioni, G.L., Ferrari, M., Guercio, A., Vaccari, A., Lancia, R. and Fumagalli, C.
Chromium-free catalysts for selective vapor phase hydrogenation of maleic anhydride to γ -butyrolactone 181
- Centi, G., Cerrato, G., D'Angelo, S., Finardi, U., Giamello, E., Morterra, C. and Perathoner, S.
Catalytic behavior and nature of active sites in copper-on-zirconia catalysts for the decomposition of N₂O 265
- Cerrato, G., see Centi, G. 265
- Ciambelli, P., Corbo, P., Gambino, M., Palma, V. and Vaccaro, S.
Catalytic combustion of carbon particulate 99
- Corbo, P., see Ciambelli, P. 99
- Cuevas, A., see Blanco, J. 9
- D'Angelo, S., see Centi, G. 265
- Danot, M., see Allali, N. 137
- Deprelle, P., see Vigneron, S. 229
- Doi, R., see Ichikawa, S. 271
- Dovbii, Z.A., see Isupova, L.A. 249
- Eder-Mirth, G., see Lercher, J.A. 353
- Eguchi, K., Watabe, M., Machida, M. and Arai, H.
Selective removal of NO by absorption in mixed oxide catalysts 297
- Ferrari, M., see Castiglioni, G.L. 181
- Finardi, U., see Centi, G. 265
- Forzatti, P., see Orsenigo, C. 15
- Freund, A., Lang, J., Lehmann, T. and Starz, K.A.
Improved Pt alloy catalysts for fuel cells 279
- Fujimoto, K., see Nakamura, I. 175
- Fumagalli, C., see Castiglioni, G.L. 181
- Gallo, P.D., see Ledoux, M.J. 145
- Gambino, M., see Ciambelli, P. 99
- Geantet, C., see Allali, N. 137
- Geobaldo, F., see Zecchina, A. 403
- Gerlock, G.L., see Kucherov, A.V. 79
- Giamello, E., see Centi, G. 265
- Goldman, O., see Noskov, A. 315
- Greene, H., Prakash, D., Athota, K., Atwood, G. and Vogel, C.
Energy efficient dual-function sorbent/catalyst media for chlorinated VOC destruction 289
- Gründling, C., see Lercher, J.A. 353
- Guercio, A., see Castiglioni, G.L. 181
- Guillard, C., see Kerzhentsev, M. 215
- Hancock, F.E., see King, F. 203
- Härkönen, M., see Keiski, R.L. 85
- Hepola, J., see Simell, P. 55
- Herman, R.G., see Lietti, L. 151
- Hermia, J., see Vigneron, S. 229
- Herrmann, J.-M., see Kerzhentsev, M. 215
- Hiromoto, S., see Kikuchi, E. 35

- Hultermans, R.J., see Ito, E. 123
- Hums, E., Joisten, M., Müller, R., Sigling, R. and Spielmann, H.
Innovative lines of SCR catalysis: NO_x reduction for stationary diesel engine exhaust gas and dioxin abatement for waste incineration facilities 29
- Ichikawa, S. and Doi, R.
Hydrogen production from water and conversion of carbon dioxide to useful chemicals by room temperature photoelectrocatalysis 271
- Iijima, T., see Takahashi, N. 63
- Imamura, M., see Nishijima, A. 129
- Isupova, L.A., Sadykov, V.A., Tikhov, S.F., Kimkhai, O.N., Kovalenko, O.N., Kustova, G.N., Ovsyannikova, I.A., Dovbii, Z.A., Kryukova, G.N., Rozovskii, A.Ya., Tretyakov, V.F. and Lunin, V.V.
Monolith perovskite catalysts for environmentally benign fuels combustion and toxic wastes incineration 249
- Ito, E., Hultermans, R.J., Calis, H.P., Jansen, J.C., Van Bekkum, H. and Van den Bleek, C.M.
Cerium-exchanged zeolites grown on metal gauze: A new catalyst system applicable for NO_x reduction in mobile engine exhaust 123
- Iwamoto, M. and Takeda, H.
Pulse study on reactivity of ethene adsorbed on Cu-MFI with nitrogen oxides and oxygen 71
- Jansen, J.C., see Ito, E. 123
- Jen, H.-W., see Kucherov, A.V. 79
- Joisten, M., see Hums, E. 29
- Kagawa, S., see Teraoka, Y. 107
- Kameoka, T., see Nishijima, A. 129
- Kasahara, K., see Takahashi, N. 63
- Keiski, R.L., Räisänen, H., Härkönen, M., Maunula, T. and Niemistö, P.
NO_x abatement in lean exhaust gas conditions over metal substrated zeolite catalysts 85
- Kerzhentsev, M., Guillard, C., Herrmann, J.-M. and Pichat, P.
Photocatalytic pollutant removal in water at room temperature: case study of the total degradation of the insecticide fenitrothion (phosphorothioic acid O,O-dimethyl-O- (3-methyl-4-nitro-phenyl) ester) 215
- Kikuchi, E., Ogura, M., Aratani, N., Sugiura, Y., Hiromoto, S. and Yogo, K.
Promotive effect of additives to In/H-ZSM-5 catalyst for selective reduction of nitric oxide with methane in the presence of water vapor 35
- Kimkhai, O.N., see Isupova, L.A. 249
- King, F. and Hancock, F.E.
Catalysis and pollution abatement: the removal of hypochlorite from waste chlorine/caustic effluent 203
- Klier, K., see Lietti, L. 151
- Kokitsu, M., see Tabata, T. 91
- Kovalenko, O.N., see Isupova, L.A. 249
- Kryukova, G.N., see Isupova, L.A. 249
- Kucherov, A.V., Gerlock, G.L., Jen, H.-W. and Shelef, M.
State of copper in a working, low-concentration CuH-ZSM-5 catalyst for exhaust gas purification: in-situ ESR monitoring 79
- Kurkela, E., see Simell, P. 55
- Kustova, G.N., see Isupova, L.A. 249
- Lancia, R., see Castiglioni, G.L. 181
- Lang, J., see Freund, A. 279
- Lavalley, J.C.
Infrared spectrometric studies of the surface basicity of metal oxides and zeolites using adsorbed probe molecules 377
- Leblanc, A., see Allali, N. 137
- Ledoux, M.J., Gallo, P.D., Pham-Huu, C. and York, A.P.E.
Molybdenum oxycarbide isomerization catalysts for cleaner fuel production 145
- Lehmann, T., see Freund, A. 279
- Lercher, J.A., see Zhan, Z. 167
- Lercher, J.A., Gründling, C. and Eder-Mirth, G.
Infrared studies of the surface acidity of oxides and zeolites using adsorbed probe molecules 353
- Lietti, L., Sun, Q., Herman, R.G. and Klier, K.
Kinetic evaluation of the direct synthesis of ethers from alcohols over sulfonated resin catalysts 151
- Linz, H.-G. and Wittstock, K.
Catalytic combustion of solvent-containing air on base metal catalysts 237
- Loader, P.K., see Burch, R. 243
- Luck, F.
A review of industrial catalytic wet air oxidation processes 195
- Lunin, V.V., see Isupova, L.A. 249
- Luteijn, C.P., see Wiersma, A. 257
- Maaskant, O.L., see Van der Grift, C.J.G. 23
- Machida, M., see Eguchi, K. 297
- Magnacca, G., see Morterra, C. 497
- Makkee, M., see Wiersma, A. 257
- Marella, M., see Strukul, G. 209
- Martín, C.A., Baltanás, M.A. and Cassano, A.E.
Photocatalytic decomposition of chloroform in a fully irradiated heterogeneous photoreactor using titanium oxide particulate suspensions 221
- Matros, Y., see Noskov, A. 315
- Matros, Y.Sh., Bunimovich, G.A., Patterson, S.E. and Meyer, S.F.
Is it economically feasible to use heterogeneous catalysts for VOC control in regenerative oxidizers? 307
- Matsubayashi, N., see Nishijima, A. 129
- Matsumoto, S., see Takahashi, N. 63
- Maunula, T., see Keiski, R.L. 85
- Medina, E., see Blanco, J. 9
- Meregalli, L., see Strukul, G. 209
- Metcalf, I.S. and Baker, R.T.
Temperature programmed investigation of La(Ca)CrO₃ anode for the oxidation of methane in solid oxide fuel cells 285
- Meyer, S.F., see Matros, Y.Sh. 307
- Miyoshi, N., see Takahashi, N. 63
- Morterra, C., see Centi, G. 265
- Morterra, C. and Magnacca, G.
A case study: surface chemistry and surface structure of catalytic aluminas, as studied by vibrational spectroscopy of adsorbed species 497
- Moulijn, J.A., see Wiersma, A. 257
- Müller, R., see Hums, E. 29
- Müllner, M., see Zhan, Z. 167
- Nakamura, I. and Fujimoto, K.
Development of new disposable catalyst for waste plastics treatment for high quality transportation fuel 175

- Nakano, K., see Teraoka, Y. 107
- Nédez, C. and Ray, J.-L.
A new Claus catalyst to reduce atmospheric pollution 49
- Niemistö, P., see Keiski, R.L. 85
- Nishijima, A., Sato, T., Yoshimura, Y., Shimada, H., Matsubayashi, N., Imamura, M., Sugimoto, Y., Kameoka, T. and Nishimura, Y.
Two stage upgrading of middle and heavy distillates over newly prepared catalysts 129
- Nishimura, Y., see Nishijima, A. 129
- Noskov, A., Bobrova, L., Bunimovich, G., Goldman, O., Zagoruiko, A. and Matros, Y.
Application of the nonstationary state of a catalyst surface for gas purification from toxic impurities 315
- Novák, ě., see Raskó, J. 115
- Ogura, M., see Kikuchi, E. 35
- Ohtsuka, H., see Tabata, T. 91
- Okada, O., see Tabata, T. 91
- Orsenigo, C., Beretta, A., Forzatti, P., Svachula, J., Tronconi, E., Bregani, F. and Baldacci, A.
Theoretical and experimental study of the interaction between NO_x reduction and SO₂ oxidation over DeNO_x-SCR catalysts 15
- Ovsyannikova, I.A., see Isupova, L.A. 249
- Palma, V., see Ciambelli, P. 99
- Patterson, S.E., see Matros, Y.Sh. 307
- Perathoner, S., see Centi, G. 265
- Pham-Huu, C., see Ledoux, M.J. 145
- Pichat, P., see Kerzhentsev, M. 215
- Pinna, F., see Strukul, G. 209
- Prakash, D., see Greene, H. 289
- Räisänen, H., see Keiski, R.L. 85
- Raskó, J., Novák, ě. and Solymosi, F.
Adsorption-induced structural changes of supported Pt-Rh catalysts 115
- Ray, J.-L., see Nédez, C. 49
- Ricchiardi, G., see Zecchina, A. 403
- Rozovskii, A.Ya., see Isupova, L.A. 249
- Sabatino, L.M.F., see Tabata, T. 91
- Sadykov, V.A., see Isupova, L.A. 249
- Sakharov, A.M., see Skibida, I.P. 187
- Sato, T., see Nishijima, A. 129
- Scarano, D., see Zecchina, A. 403
- Shangguan, W., see Teraoka, Y. 107
- Shelef, M., see Kucherov, A.V. 79
- Shimada, H., see Nishijima, A. 129
- Shinjo, H., see Takahashi, N. 63
- Sigling, R., see Hums, E. 29
- Simell, P., Kurkela, E., Ståhlberg, P. and Hepola, J.
Catalytic hot gas cleaning of gasification gas 55
- Skibida, I.P. and Sakharov, A.M.
Molecular oxygen as environmental acceptable, selective and the most strong oxidant in liquid-phase oxidation 187
- Solymosi, F., see Raskó, J. 115
- Spielmann, H., see Hums, E. 29
- Spoto, G., see Zecchina, A. 403
- Ståhlberg, P., see Simell, P. 55
- Starz, K.A., see Freund, A. 279
- Strukul, G., Pinna, F., Marella, M., Meregalli, L. and Tomaselli, M.
Sol-gel palladium catalysts for nitrate and nitrite removal from drinking water 209
- Sugimoto, Y., see Nishijima, A. 129
- Sugiura, Y., see Kikuchi, E. 35
- Sun, Q., see Lietti, L. 151
- Suzuki, H., see Takahashi, N. 63
- Suzuki, T., see Takahashi, N. 63
- Svachula, J., see Orsenigo, C. 15
- Tabata, T., Kokitsu, M., Ohtsuka, H., Okada, O., Sabatino, L.M.F. and Bellussi, G.
Study on catalysts of selective reduction of NO_x using hydrocarbons for natural gas engines 91
- Takahashi, N., Shinjo, H., Iijima, T., Suzuki, T., Yamazaki, K., Yokota, K., Suzuki, H., Miyoshi, N., Matsumoto, S., Tanizawa, T., Tanaka, T., Tateishi, S. and Kasahara, K.
The new concept 3-way catalyst for automotive lean-burn engine: NO_x storage and reduction catalyst 63
- Takeda, H., see Iwamoto, M. 71
- Tanaka, T., see Takahashi, N. 63
- Tanizawa, T., see Takahashi, N. 63
- Tateishi, S., see Takahashi, N. 63
- Teraoka, Y., Nakano, K., Shangguan, W. and Kagawa, S.
Simultaneous catalytic removal of nitrogen oxides and diesel soot particulate over perovskite-related oxides 107
- Tikhov, S.F., see Isupova, L.A. 249
- Tomaselli, M., see Strukul, G. 209
- Tretyakov, V.F., see Isupova, L.A. 249
- Tronconi, E., see Orsenigo, C. 15
- Urbano, F.J., see Burch, R. 243
- Vaccari, A., see Castiglioni, G.L. 181
- Vaccaro, S., see Ciambelli, P. 99
- Van Bekkum, H., see Ito, E. 123
- Van Bekkum, H., see Wiersma, A. 257
- Van den Bleek, C.M., see Ito, E. 123
- Van der Grift, C.J.G., Woldhuis, A.F. and Maaskant, O.L.
The Shell DENOX system for low temperature NO_x removal 23
- Van de Sandt, E.J.A.X., see Wiersma, A. 257
- Vigneron, S., Deprelle, P. and Hermia, J.
Comparison of precious metals and base metal oxides for catalytic deep oxidation of volatile organic compounds from coating plants: test results on an industrial pilot scale incinerator 229
- Vogel, C., see Greene, H. 289
- Vrinat, M., see Allali, N. 137
- Wachs, I.E.
Raman and IR studies of surface metal oxide species on oxide supports: Supported metal oxide catalysts 437
- Walters, A.B., see Zhang, X. 41
- Watabe, M., see Eguchi, K. 297
- Wiersma, A., Van de Sandt, E.J.A.X., Makkee, M., Luteijn, C.P., Van Bekkum, H. and Moulijn, J.A.
Process for the selective hydrogenolysis of CCl₂F₂ (CFC-12) into CH₃F₂ (HFC-32) 257
- Wittstock, K., see Linz, H.-G. 237
- Woldhuis, A.F., see Van der Grift, C.J.G. 23
- Yamazaki, K., see Takahashi, N. 63
- Yates, M., see Blanco, J. 9

- Yogo, K., see Kikuchi, E. 35
- Yokota, K., see Takahashi, N. 63
- York, A.P.E., see Ledoux, M.J. 145
- Yoshimura, Y., see Nishijima, A. 129
- Zagoruiko, A., see Noskov, A. 315
- Zecchina, A., Scarano, D., Bordiga, S., Ricchiardi, G., Spoto, G.
and Geobaldo, F.
- IR studies of CO and NO adsorbed on well characterized oxide
single microcrystals 403
- Zhan, Z., Müllner, M. and Lercher, J.A.
Catalytic hydrolysis of s-triazine compounds over Al_2O_3 167
- Zhang, X., Walters, A.B. and Albert Vannice, M.
NO reduction by CH_4 over rare earth oxides 41