

Author Index

- Al'kaeva, E.M., Andrushkevich, T.V.,
Ovsitser, O.Yu. and Sokolovskii, V.D.
Influence of bulk oxygen diffusion on the
kinetics of partial oxidation over molybdenum-
containing catalysts 357
- Andersen, A.G., see Takehira, K. 237
- Ando, T., see Otsuka, K. 315
- Andrushkevich, T.V., see Al'kaeva, E.M. 357
- Anshits, A.G., Voskresenskaya, E.N.,
Kondratenko, E.V. and Maksimov, N.G.
The role of the defect structure of oxide catalysts
for the oxidative coupling of methane. The
activation of the oxidant 217
- Anshits, A.G., see Kondratenko, E.V. 273
- Anshits, A.G., see Voskresenskaya, E.N. 277
- Anshits, A.G., see Vereshchagin, S.N. 349
- Arena, F., see Parmaliana, A. 231
- Asplund, S., Fornell, C., Holmgren, A. and
Irandoust, S.
Catalyst deactivation in liquid- and gas-phase
hydrogenation of acetylene using a monolithic
catalyst reactor 181
- Avdeev, V.I., see Zhidimirov, G.M. 383
- Baiker, A., see Mallat, T. 143
- Barannik, G.B., see Ismagilov, Z.R. 281
- Barbier, J., see Lamy-Pitara, E. 151
- Bariås, O.A., Holmen, A. and Blekkan, E.A.
Propane dehydrogenation over supported
platinum catalysts: Effect of tin as a
promoter 361
- Becker, U., see Ledakowicz, S. 65
- Beenackers, A.A.C.M., see Breman, B.B. 5
- Belegridi, I., see Lamy-Pitara, E. 151
- Belousova, V.N., see Galanov, S.I. 293
- Belyaev, V.D., Sobyenin, V.A., Gorelov, V.P. and
Gal'Vita, V.V.
Effect of hydrogen pumping on the rate of
methane oxidation over a platinum
electrode 301
- Benaissa, M., see Stüber, F. 95
- Bengoa, C., see Fortuny, A. 79
- Bhanage, B.M., see Chaudhari, R.V. 123
- Bhattacharya, A., see Chaudhari, R.V. 123
- Bi, U.-L., Li, L.-T. and Zhen, K.-J.
Oxidative coupling of methane on the superionic
conductors 245
- Bobrov, N.N., see Bobrova, I.I. 257
- Bobrova, I.I., Bobrov, N.N. and Davydov, A.A.
Catalytic methane steam reforming: novel
results 257
- Böhmer, U., Morgenschweis, K. and
Reschetilowski, W.
Liquid phase asymmetric hydrogenation on Pt-
containing zeolite Y catalysts 195
- Bordes, E., see Tessier, L. 335
- Bourbigot, M.M., see Luck, F. 73
- Breman, B.B., Beenackers, A.A.C.M.,
Schuurman, H.A. and Oesterholt, E.
Kinetics of the gas-slurry methanol-higher
alcohol synthesis from CO/CO₂/H₂ over a Cs-
Cu/ZnO/Al₂O₃ catalyst, including simultaneous
formation of methyl esters and hydrocarbons 5
- Budneva, A.A., see Davydov, A.A. 225
- Bukur, D.B., Nowicki, L. and Lang, X.
Steady state Fischer-Tropsch synthesis in fixed-
bed and stirred tank slurry reactors 111
- Buyanov, R.A., see Chesnokov, V.V. 265
- Bykov, V.I., Vishnevskaya, T.I. and
Tsirulnichenko, N.M.
Numerical modelling of the dynamics of
methane oxidation 297
- Cavani, F. and Trifirò, F.
The oxidative dehydrogenation of ethane and
propane as an alternative way for the production
of light olefins 307
- Cavani, F., Koutyrev, M. and Trifirò, F.
Oxidative dehydrogenation of ethane to ethylene
over antimony-containing Keggin-type
heteropolyoxomolybdates 365
- Chaki, K., see Yamamura, M. 299
- Chaudhari, R.V., Bhattacharya, A. and
Bhanage, B.M.
Catalysis with soluble complexes in gas-liquid-
liquid systems 123
- Chen, Y., see Gong, M.-C. 259
- Chen, Y., see Gong, M.-C. 263
- Chen, Y.-Q., see Gong, M.-C. 259

- Chen, Y.-Q., see Gong, M.-C. 263
- Chesnokov, V.V., Zaikovskii, V.I., Buyanov, R.A., Molchanov, V.V. and Plyasova, L.M.
Morphology of carbon from methane on nickel-containing catalysts 265
- Cordier, G., see Gavroy, D. 103
- Cybulski, A., see Edvinsson, R.K. 173
- Davydov, A.A., Shepotko, M.L. and Budneva, A.A.
Basic sites on the oxide surfaces: their effect on the catalytic methane coupling 225
- Davydov, A.A., see Bobrova, I.I. 257
- Davydov, A.A., see Galanov, S.I. 293
- Déchamp, N., Gamez, A., Perrard, A. and Gallezot, P.
Kinetics of glucose hydrogenation in a trickle-bed reactor 29
- Deckwer, W.-D., see Ledakowicz, S. 65
- Deganello, G., see Duca, D. 15
- Delmas, H., see Stüber, F. 95
- Delmas, H., see Gavroy, D. 103
- Delmas, H., see Purwanto, P. 135
- DiSerio, M., see Santacesaria, E. 23
- Djafer, M., see Luck, F. 73
- Dubkov, K.A., see Sobolev, V.I. 251
- Duca, D., Liotta, L.F. and Deganello, G.
Liquid phase hydrogenation of phenylacetylene on pumice supported palladium catalysts 15
- Dugaev, K.P., see Vereshchagin, S.N. 349
- Duhamet, J., see Rivalier, P. 165
- Durand, R., see Rivalier, P. 165
- Ebitani, K., see Otsuka, K. 315
- Edvinsson, R.K. and Cybulski, A.
A comparison between the monolithic reactor and the trickle-bed reactor for liquid-phase hydrogenations 173
- Ehwald, H., see Muzykantov, V.S. 243
- Fabregat, A., see Fortuny, A. 79
- Falgayrac, G. and Savall, A.
Autoxidation of methoxytoluene in acetic acid; electrochemical assistance of the catalytic effect of cobalt 189
- Ferrer, C., see Fortuny, A. 79
- Font, J., see Fortuny, A. 79
- Fornell, C., see Asplund, S. 181
- Fortuny, A., Ferrer, C., Bengoa, C., Font, J. and Fabregat, A.
Catalytic removal of phenol from aqueous phase using oxygen or air as oxidant 79
- Fouilloux, P., see Gavroy, D. 103
- Frusteri, F., see Parmaliana, A. 231
- Frusteri, F., see Ismagilov, Z.R. 281
- Fujikawa, N., see Yoon, Y.-S. 327
- Galanov, A.I., see Galanov, S.I. 293
- Galanov, S.I., Kurina, L.N., Galanov, A.I., Davydov, A.A. and Belousova, V.N.
Catalytic oxidative conversion of methane 293
- Gallezot, P., see Déchamp, N. 29
- Gal'Vita, V.V., see Belyaev, V.D. 301
- Gamez, A., see Déchamp, N. 29
- Garibyan, T.A., Muradyan, A.A., Grigoryan, R.R., Vartikyan, L.A., Minasyan, V.T. and Manukyan, N.S.
New methods of increasing the catalytic activity and selectivity in the oxidative conversion processes of methane and propylene 249
- Gavroy, D., Joly-Vuillemin, C., Cordier, G., Fouilloux, P. and Delmas, H.
Continuous hydrogenation of adiponitrile on Raney nickel in a slurry bubble column 103
- Gesser, H.D., see Shigapov, A.N. 289
- Gesser, H.D., Zhu, G. and Hunter, N.R.
Conversion of ethane to methanol and ethanol by ozone sensitized partial oxidation at near atmospheric pressure 321
- Gong, M.-C., Zhou, J.-L., Xu, Z.-H., Chen, Y.-Q. and Chen, Y.
Study on the oxidative coupling of methane: XRD and XPS study of TiO_2 -based catalysts promoted by different additives 259
- Gong, M.-C., Xu, X.-H., Chen, Y.-Q., Zhou, J.-L. and Chen, Y.
Study on oxidative coupling of methane. Effect of additives on TiO_2 -based catalytic performance 263
- Gorelov, V.P., see Belyaev, V.D. 301
- Grigoryan, R.R., see Garibyan, T.A. 249
- Gubelmann-Bonneau, M., see Tessier, L. 335
- Hanika, J. and Růžicka, J.
Modelling of a trickle bed reactor with strong exothermal reaction 87
- Harihara, H., see Takehira, K. 237
- Hayakawa, T., see Takehira, K. 237
- Heitnes, K., Lindberg, S., Rokstad, O.A. and Holmen, A.
Catalytic partial oxidation of methane to synthesis gas 211
- Herrmann, J.-M.
Heterogeneous photocatalysis: an emerging discipline involving multiphase systems 157
- Holland, H.L.
Erratum to "Models for the regiochemistry and stereochemistry of microbial hydroxylation and sulfoxidation" [Catalysis Today, 22 (1994) 427-440] 201
- Holmen, A., see Heitnes, K. 211
- Holmen, A., see Bariás, O.A. 361
- Holmgren, A., see Asplund, S. 181
- Hunter, N.R., see Gesser, H.D. 321
- Inaba, K., see Yamamura, M. 299
- Irandoost, S., see Asplund, S. 181
- Ismagilov, Z.R., Shkrabina, R.A., Koryabkina, N.A. and Kapteijn, F.

- Synthesis of mechanically strong and thermally stable spherical alumina catalyst supports for the process of methane dimerization in a fluidized bed 269
- Ismagilov, Z.R., Parmaliana, A., Frusteri, F., Miceli, D., Kirchanov, A.A. and Barannik, G.B. Oxidative coupling of methane over sodium doped V–Mo–O–SiO₂ honeycomb catalysts 281
- Joly-Vuillemin, C., see Gavroy, D. 103
- Kai-Ji, Z., see Ying-Li, B. 245
- Kapteijn, F., see Ismagilov, Z.R. 269
- Kirchanov, A.A., see Ismagilov, Z.R. 281
- Kirik, N.P., see Vereshchagin, S.N. 349
- Kondratenko, E.V., see Anshits, A.G. 217
- Kondratenko, E.V., Maksimov, N.G., Selyutin, G.E. and Anshits, A.G. Oxidative coupling of methane over oxides of alkali earth metals using N₂O as oxidant 273
- Koryabkina, N.A., see Ismagilov, Z.R. 269
- Koutyrev, M., see Cavani, F. 365
- Krylov, O.V., Mamedov, A.Kh. and Mirzabekova, S.R. The regularities in the interaction of alkanes with CO₂ on oxide catalysts 371
- Kryukov, V.A. The hydrocarbon processing industry in Siberia 395
- Kul'kova, N.V., see Murzin, D.Yu. 35
- Kurina, L.N., see Galanov, S.I. 293
- Kurteeva, L.I., see Voskresenskaya, E.N. 277
- Lamy-Pitara, E., Belegri, I. and Barbier, J. Liquid phase catalytic hydrogenation under potential control of the catalyst 151
- Lang, X., see Bukur, D.B. 111
- Ledakowicz, S., Becker, U. and Deckwer, W.-D. Mass transfer limitations of mercury-biotransformation in multiphase reactor 65
- Lee, K.-W., see Yoon, Y.-S. 327
- Levec, J. and Pintar, A. Catalytic oxidation of aqueous solutions of organics. An effective method for removal of toxic pollutants from waste waters 51
- Lindberg, S., see Heitnes, K. 211
- Liotta, L.F., see Duca, D. 15
- Li, T.-L., see Bi, Y.-L. 24545
- Lu, S.-J., see Tang, S.-B. 253
- Luck, F., Djafer, M. and Bourbigot, M.M. Catalytic wet air oxidation of biosolids in a monolithic reactor 73
- Maksimov, N.G., see Anshits, A.G. 217
- Maksimov, N.G., see Kondratenko, E.V. 273
- Mallat, T. and Baiker, A. Catalyst potential: a key for controlling alcohol oxidation in multiphase reactors 143
- Mamedov, A.Kh., see Krylov, O.V. 371
- Manukyan, N.S., see Garibyan, T.A. 249
- Mazzarino, I., Santos, A. and Renzi, C. Liquid phase catalytic oxidation of aliphatic alcohols mixtures 59
- Miceli, D., see Parmaliana, A. 231
- Miceli, D., see Ismagilov, Z.R. 281
- Minasyan, V.T., see Garibyan, T.A. 249
- Mirzabekova, S.R., see Krylov, O.V. 371
- Molchanov, V.V., see Chesnokov, V.V. 265
- Moreau, C., see Rivalier, P. 165
- Morgenschweis, K., see Böhmer, U. 195
- Moro-oka, Y., see Yoon, Y.-S. 327
- Muradyan, A.A., see Garibyan, T.A. 249
- Murzin, D.Yu. and Kul'kova, N.V. Non-equilibrium effects in the liquid-phase catalytic hydrogenation 35
- Muzykantov, V.S., Shestov, A.A. and Ehwald, H. Mechanisms of catalytic activation of methane and ethylene on magnesia surface elucidated by isotopic kinetics 243
- Nikov, I. and Paev, K. Palladium on alumina catalyst for glucose oxidation: reaction kinetics and catalyst deactivation 41
- Nowicki, L., see Bukur, D.B. 111
- Oesterholt, E., see Breman, B.B. 5
- Okado, H., see Yamamura, M. 299
- Otsuka, K., Ando, T., Suprpto, S., Wang, Y., Ebitani, K. and Yamanaka, I. Ethane oxidative dehydrogenation over boron oxides supported on yttria stabilized zirconia 315
- Ovsitser, O.Yu., see Al'kaeva, E.M. 357
- Paev, K., see Nikov, I. 41
- Panna, O.V., see Sobolev, V.I. 251
- Panov, G.I., see Sobolev, V.I. 251
- Parmaliana, A., Arena, F., Frusteri, F., Miceli, D. and Sokolovskii, V. On the nature of active sites of silica based oxide catalysts in the partial oxidation of methane to formaldehyde 231
- Parmaliana, A., see Ismagilov, Z.R. 281
- Perrard, A., see Déchamp, N. 29
- Pervyshina, G.G., see Voskresenskaya, E.N. 277
- Pintar, A., see Levec, J. 51
- Plyasova, L.M., see Chesnokov, V.V. 265
- Purwanto, P. and Delmas, H. Gas-liquid-liquid reaction engineering: hydroformylation of 1-octene using a water soluble rhodium complex catalyst 135
- Qiu, F.-L., see Tang, S.-B. 253
- Renzi, C., see Mazzarino, I. 59
- Reschetilowski, W., see Böhmer, U. 195
- Rivalier, P., Duhamet, J., Moreau, C. and Durand, R. Development of a continuous catalytic

- heterogeneous column reactor with simultaneous extraction of an intermediate product by an organic solvent circulating in countercurrent manner with the aqueous phase 165
- Rokstad, O.A., see Heitnes, K. 211
- Ross, J.R.H., see Vereshchagin, S.N. 285
- Růžička, J., see Hanika, J. 87
- Santacesaria, E., DiSerio, M. and Tesser, R.
Role of ethylene oxide solubility in the ethoxylation processes 23
- Santos, A., see Mazzarino, I. 59
- Savall, A., see Falgayrac, G. 189
- Schuurman, H.A., see Breman, B.B. 5
- Selyutin, G.E., see Kondratenko, E.V. 273
- Shepotko, M.L., see Davydov, A.A. 225
- Shestov, A.A., see Muzykantov, V.S. 243
- Shigapov, A.N. and Gesser, H.D.
Conversion of natural gas to liquids and hydrogen in a thermal diffusion column TDC reactor 289
- Shimizu, M., see Takehira, K. 237
- Shishkina, N.N., see Vereshchagin, S.N. 349
- Shkrabina, R.A., see Ismagilov, Z.R. 269
- Sinev, M.Yu.
Kinetic modeling of heterogeneous-homogeneous radical processes of the partial oxidation of low paraffins 389
- Sobolev, V.I., Dubkov, K.A., Panna, O.V. and Panov, G.I.
Selective oxidation of methane to methanol on a FeZSM-5 surface 251
- Sobyanin, V.A., see Belyaev, V.D. 301
- Sokolovskii, V., see Parmaliana, A. 231
- Sokolovskii, V.D., see Al'kaeva, E.M. 357
- Sokolovskii, V.D.
Catalyst properties and direction of selective oxidative transformations of C_1 - C_3 paraffins 377
- Stepanov, A.G.
In situ NMR identification of the intermediates and the reaction products in alcohols and hydrocarbons conversion on zeolites 341
- Stüber, F., Benaissa, M. and Delmas, H.
Partial hydrogenation of 1,5,9-cyclododecatriene in three phase catalytic reactors 95
- Suprpto, S., see Otsuka, K. 315
- Suzuki, K., see Takehira, K. 237
- Suzuki, S., see Yamamura, M. 299
- Takehira, K., Hayakawa, T., Harihara, H., Andersen, A.G., Suzuki, K. and Shimizu, M.
Partial oxidation of methane to synthesis gas over (Ca,Sr) (Ti,Ni) oxides 237
- Tang, S.-B., Qiu, F.-L. and Lu, S.-J.
Effect of supports on the carbon deposition of nickel catalysts for methane reforming with CO_2 253
- Tesser, R., see Santacesaria, E. 23
- Tessier, L., Bordes, E. and Gubelmann-Bonneau, M.
Active specie on vanadium-containing catalysts for the selective oxidation of ethane to acetic acid 335
- Trifirò, F., see Cavani, F. 307
- Trifirò, F., see Cavani, F. 365
- Tsirulnichenko, N.M., see Bykov, V.I. 297
- Ueda, W., see Yoon, Y.-S. 327
- Vartikyan, L.A., see Garibyan, T.A. 249
- Vereshchagin, S.N. and Ross, J.R.H.
Kinetic studies of oxidative coupling of methane on samarium oxide 285
- Vereshchagin, S.N., Dugaev, K.P., Kirik, N.P., Shishkina, N.N. and Anshits, A.G.
Conversion of hydrocarbons over zeolites and phosphoric acid 349
- Vishnevskaya, T.I., see Bykov, V.I. 297
- Voskresenskaya, E.N., see Anshits, A.G. 217
- Voskresenskaya, E.N., Kurteeva, L.I., Pervyshina, G.G. and Anshits, A.G.
Comparison of O_2 and N_2O as oxidants for the oxidative coupling of methane over Bi-containing oxide catalysts 277
- Wakatsuki, T., see Yamamura, M. 299
- Wang, Y., see Otsuka, K. 315
- Więckowska, J.
Catalytic and adsorptive desulphurization of gases 405
- Xu, X.-H., see Gong, M.-C. 263
- Xu, Z.-H., see Gong, M.-C. 259
- Yamamura, M., Okado, H., Chaki, K., Wakatsuki, T., Inaba, K., Suzuki, S. and Yoshinari, T.
Oxidative coupling of methane over sodium-doped CaO catalysts prepared by the sol-gel method 299
- Yamanaka, I., see Otsuka, K. 315
- Yoon, Y.-S., Fujikawa, N., Ueda, W., Moro-oka, Y. and Lee, K.-W.
Propane oxidation over various metal molybdate catalysts 327
- Yoshinari, T., see Yamamura, M. 299
- Yudanov, I.V., see Zhidomirov, G.M. 383
- Zaikovskii, V.I., see Chesnokov, V.V. 265
- Zakharov, I.I., see Zhidomirov, G.M. 383
- Zhanpeisov, N.U., see Zhidomirov, G.M. 383
- Zhen, K.-J., see Bi, Y.-L. 245
- Zhidomirov, G.M., Avdeev, V.I., Zhanpeisov, N.U., Zakharov, I.I. and Yudanov, I.V.
Molecular models of active sites of C_1 and C_2 hydrocarbon activation 383
- Zhou, J.-L., see Gong, M.-C. 259
- Zhou, J.-L., see Gong, M.-C. 263
- Zhu, G., see Gesser, H.D. 321