

Author index

- Adesina, A.A., see Cao, D. 23
Amoureux, J.-P., see Pruski, M. 401
- Böhringer, W., see Schulz, H. 87
Baldi, M., see Busca, G. 453
Behlekar, A.A., see Shaikh, R.A. 201
Benedetti, A., Bertoldo, L., Canton, P., Goerigk, G., Pinna, F., Riello, P. and Polizzi, S.
ASAXS study of Au, Pd and Pd–Au catalysts supported on active carbon 485
Bertoldo, L., see Benedetti, A. 485
Bhaumik, A., see Kumar, R. 185
Birke, P., see John, H.H. 211
Bond, G.C.
Kinetics of alkane reactions on metal catalysts: activation energies and the compensation effect 41
Bridgewater, J.S., see Ford, P.C. 419
Buchanan, N.L., see Zoeller, J.R. 431
Burcham, L.J. and Wachs, I.E.
The origin of the support effect in supported metal oxide catalysts: in situ infrared and kinetic studies during methanol oxidation 467
Busca, G., Finocchio, E., Lorenzelli, V., Ramis, G. and Baldi, M.
IR studies on the activation of C–H hydrocarbon bonds on oxidation catalysts 453
- Callanan, L.H., van Steen, E. and T. O'Connor, C.
Improved selectivity to lower substituted methylamines using hydrothermally treated zeolite Rho 229
Canton, P., see Benedetti, A. 485
Cao, D. and Adesina, A.A.
Fluidised bed reactor studies of H₂S decomposition over supported bimetallic Ru catalysts 23
Chadwick, D., see Hellgardt, K. 79
Chakraborty, B. and Viswanathan, B.
Surface acidity of MCM-41 by in situ IR studies of pyridine adsorption 253
Chao, K.J., Wei, A.C., Wu, H.C. and Lee, J.F.
Characterization of metal-incorporated molecular sieves 277
Chaudhari, R.V., see Mathew, S.P. 49
Cheng, S.
From layer compounds to catalytic materials 303
Chowdhury, B., see Reddy, B.M. 115
Chuah, G.K.
An investigation into the preparation of high surface area zirconia 131
Coville, N.J., see Curtis, V. 33
Coville, N.J., see Makoa, M.P. 11
Coville, N.J., see Plint, N. 71
Curtis, V., Nicolaidis, C.P., Coville, N.J., Hildebrandt, D. and Glasser, D.
The effect of sulfur on supported cobalt Fischer–Tropsch catalysts 33
D. Sokolovskii, V., see Makoa, M.P. 11
Dec, S., see Keeler, C. 377
Deka, R.C., Pal, S., Goursot, A. and Vetrivel, R.
Influence of zeolite composition on the selectivity of alkylation reaction for the synthesis of *p*-isobutylethylbenzene: a computational study 221
Dickson, T.J., see Zoeller, J.R. 431
Dongare, M.K., Sabde, D.P., Shaikh, R.A., Kamble, K.R. and Hegde, S.G.
Synthesis, characterization and catalytic properties of ZrAPO-5 267
Douskey, M.C., see Isbester, P.K. 363
Dry, M.E., see Heese, F.P. 327
Engelbrecht, D., see Sookraj, S.H. 161
Ernst, S., see Rakoczy, R.A. 261
Fernandez, C., see Pruski, M. 401
Finocchio, E., see Busca, G. 453
Ford, P.C., Bridgewater, J.S., Massick, S. and Marhenke, J.
Photochemical strategies for investigating organometallic intermediates relevant to catalysis mechanisms 419
Freese, U., Heinrich, F. and Roessner, F.
Acylation of aromatic compounds on H-Beta zeolites 237
Fremgen, D.E., see Kramarz, K.W. 339
Fung, A.S., see Kennedy, G.J. 385
Ganesh, I., see Reddy, B.M. 115
Ghavalas, D., see Plint, N. 71
Glasser, D., see Curtis, V. 33
Goerigk, G., see Benedetti, A. 485
Goursot, A., see Deka, R.C. 221
Grasselli, R.K.
Advances and future trends in selective oxidation and ammoxidation catalysis 141

- Hartmann, M., see Rakoczy, R.A. 261
Heese, F.P., Dry, M.E. and Möller, K.P.
Single stage synthesis of diisopropyl ether – an alternative octane enhancer for lead-free petrol 327
Hegde, S.G., see Dongare, M.K. 267
Hegde, S.G., see Shaikh, R.A. 201
Heinrich, F., see Freese, U. 237
Hellgardt, K. and Chadwick, D.
Transformations of ferrihydrite during calcination and sulphidation 79
Hildebrandt, D., see Curtis, V. 33
Hutchings, G.J. and Taylor, S.H.
Designing oxidation catalysts 105
Hutchings, G.J., see Peter Williams, B. 99
Hwang, S.-J. and Raftery, D.
In situ solid-state NMR studies of ethanol photocatalysis: characterization of surface sites and their reactivities 353
Isbester, P.K., Zalusky, A., Lewis, D.H., Douskey, M.C., Pomije, M.J., Mann, K.R. and Munson, E.J.
NMR probe for heterogeneous catalysis with isolated reagent flow and magic-angle spinning 363
Jacob, C.R., see Raja, R. 171
Jacobs, P.A., see Vanoppen, D.L. 177
Jaenicke, S. and Loh, W.L.
Preparation of highly dispersed molybdenum on alumina by thermal decomposition of $\text{Mo}(\text{CO})_6$ 123
John, H.H., Neubauer, H.D. and Birke, P.
Zeolite containing catalysts for the conversion of C_8 -aromatics fractions 211
Kale, S.M., see Singh, A.P. 245
Kamble, K.R., see Dongare, M.K. 267
Katdare, S.P., Ramaswamy, V. and Ramaswamy, A.V.
Ultrasonication: a competitive method of intercalation for the preparation of alumina pillared montmorillonite catalyst 313
Keeler, C., Xiong, J., Lock, H., Dec, S., Tao, T. and Maciel, G.E.
A new in situ chemical reactor for studying heterogeneous catalysis by NMR: The GRASSHopper 377
Kennedy, G.J., Lawton, S.L., Fung, A.S., Rubin, M.K. and Steuernagel, S.
Multinuclear MAS NMR studies of zeolites MCM-22 and MCM-49 385
Klingler, R.J., see Kramarz, K.W. 339
Kramarz, K.W., Klingler, R.J., Fremgen, D.E. and Rathke, J.W.
Toroid NMR probes for the in situ examination of homogeneous cobalt hydroformylation catalysts at high pressures and temperatures 339
Krishna, K., see Narayanan, S. 57
Kumar, R., Mukherjee, P. and Bhaumik, A.
Enhancement in the reaction rates in the hydroxylation of aromatics over $\text{TS-1}/\text{H}_2\text{O}_2$ under solvent-free triphase conditions 185
Lalithambika, M., see Sabu, K.R. 321
Lang, D.P., see Pruski, M. 401
Lawton, S.L., see Kennedy, G.J. 385
Lee, J.F., see Chao, K.J. 277
Leiberich, R., see Wolf, U. 411
Lewis, D.H., see Isbester, P.K. 363
Lock, H., see Keeler, C. 377
Loh, W.L., see Jaenicke, S. 123
Lorenzelli, V., see Busca, G. 453
Lowman, D.W. and Zoeller, J.R.
New applications of spectroscopy in catalysis 337
Mériaudeau, P., Tuan, V.A., Sapaly, G., Nghiem, V.T. and Naccache, C.
Pore size and crystal size effects on the selective hydroisomerisation of C_8 paraffins over Pt–Pd/SAPO-11, Pt–Pd/SAPO-41 bifunctional catalysts 285
Möller, K.P., see Heese, F.P. 327
Maciel, G.E., see Keeler, C. 377
Magagula, Z. and van Steen, E.
Time on stream behaviour in the (amm)oxidation of propene/propane over iron antimony oxide: cyclic operation 155
Mahata, N. and Vishwanathan, V.
Gas phase hydrogenation of phenol over supported palladium catalysts 65
Makoa, M.P., Coville, N.J. and D. Sokolovskii, V.
Characterisation of Co/Mg/ Al_2O_3 high pressure partial oxidation catalysts 11
Mann, K.R., see Isbester, P.K. 363
Marhenke, J., see Ford, P.C. 419
Massick, S., see Ford, P.C. 419
Mathew, S.P., Rajasekharam, M.V. and Chaudhari, R.V.
Hydrogenation of *p*-isobutyl acetophenone using a Ru/ Al_2O_3 catalyst: reaction kinetics and modelling of a semi-batch slurry reactor 49
Mukherjee, P., see Kumar, R. 185
Munson, E.J., see Isbester, P.K. 363
Naccache, C., see Mériaudeau, P. 285
Narayanan, S. and Krishna, K.
Structure activity relationship in Pd/hydrotalcite: effect of calcination of hydrotalcite on palladium dispersion and phenol hydrogenation 57
Neubauer, H.D., see John, H.H. 211
Nghiem, V.T., see Mériaudeau, P. 285
Nicolaides, C.P., see Curtis, V. 33
Ousmanov, F., see Schulz, H. 87
Pal, S., see Deka, R.C. 221
Peter Williams, B., Young, N.C., West, J., Rhodes, C. and Hutchings, G.J.
Carbonyl sulphide hydrolysis using alumina catalysts 99
Pinna, F., see Benedetti, A. 485
Plint, N., Ghavalas, D., Vally, T., Sokolovski, V.D. and Coville, N.J.
Catalysed synthesis of 4-heptanone from 1-butanol 71
Polizzi, S., see Benedetti, A. 485
Pomije, M.J., see Isbester, P.K. 363
Pruski, M., Fernandez, C., Lang, D.P. and Amoureux, J.-P.

- Measurement of interatomic connectivities in molecular sieves using MQMAS-based methods 401
- Raftery, D., see Hwang, S.-J. 353
- Raja, R., Jacob, C.R. and Ratnasamy, P.
 - Direct oxidation of propane to isopropanol 171
- Rajasekharam, M.V., see Mathew, S.P. 49
- Rakoczy, R.A., Ernst, S., Hartmann, M., Traa, Y. and Weitkamp, J.
 - Synthesis of large molecular sieve crystals with the AFI (AlPO₄-5) topology 261
- Ramaswamy, A.V., see Katdare, S.P. 313
- Ramaswamy, V., see Katdare, S.P. 313
- Ramis, G., see Busca, G. 453
- Ramming, K.K., see Zoeller, J.R. 431
- Rao, B.S., see Shaikh, R.A. 201
- Rashid, K.K.A., see Xavier, K.O. 17
- Rathke, J.W., see Kramarz, K.W. 339
- Ratnasamy, P., see Raja, R. 171
- Reddy, B.M., Ganesh, I. and Chowdhury, B.
 - Design of stable and reactive vanadium oxide catalysts supported on binary oxides 115
- Rekha, R., see Sabu, K.R. 321
- Rhodes, C., see Peter Williams, B. 99
- Riello, P., see Benedetti, A. 485
- Roessner, F., see Freese, U. 237
- Rubin, M.K., see Kennedy, G.J. 385
- Sabde, D.P., see Dongare, M.K. 267
- Sabu, K.R., Sukumar, R., Rekha, R. and Lalithambika, M.
 - A comparative study on H₂SO₄, HNO₃ and HClO₄ treated metakaolinite of a natural kaolinite as Friedel–Crafts alkylation catalyst 321
- Sapaly, G., see Mérieudeau, P. 285
- Schoonheydt, R.A., see Weckhuysen, B.M. 441
- Schulz, H., Böhringer, W., Waller, P. and Ousmanov, F.
 - Gas oil deep hydrodesulfurization: refractory compounds and retarded kinetics 87
- Seeba, J., see Wolf, U. 411
- Sen, B., see Xavier, K.O. 17
- Shaikh, R.A., Hegde, S.G., Behlekar, A.A. and Rao, B.S.
 - Enhancement of acidity and paraselectivity by the silylation in pentasil zeolites 201
- Shaikh, R.A., see Dongare, M.K. 267
- Singh, A.P. and Kale, S.M.
 - Para*-selective chlorination of benzyl chloride to 4-chlorobenzyl chloride over zeolite catalysts 245
- Sinha, A.K. and Sivasanker, S.
 - Hydroisomerization of *n*-hexane over Pt–SAPO-11 and Pt–SAPO-31 molecular sieves 293
- Sivasanker, S., see Sinha, A.K. 293
- Sokolovski, V.D., see Makoa, M.P. 11
- Sokolovski, V.D., see Plint, N. 71
- Sookraj, S.H. and Engelbrecht, D.
 - Selective oxidation of light hydrocarbons over promoted vanadyl pyrophosphate 161
- Sreekala, R., see Xavier, K.O. 17
- Stuernagel, S., see Kennedy, G.J. 385
- Sukumar, R., see Sabu, K.R. 321
- T. O'Connor, C., see Callanan, L.H. 229
- Tao, T., see Keeler, C. 377
- Taylor, S.H., see Hutchings, G.J. 105
- Traa, Y., see Rakoczy, R.A. 261
- Traa, Y., see Weitkamp, J. 193
- Trimm, D.L.
 - Catalysts for the control of coking during steam reforming 3
- Tuan, V.A., see Mérieudeau, P. 285
- Vally, T., see Plint, N. 71
- van Steen, E.
 - Proceedings of the First Conference of the Indo-Pacific Catalysis Association (IPCAT1), Cape Town, South Africa, 25–28 January 1998 Guest Editor 1
- van Steen, E., see Callanan, L.H. 229
- van Steen, E., see Magagula, Z. 155
- Vanoppen, D.L. and Jacobs, P.A.
 - Cobalt-containing molecular sieves as catalysts for the low conversion autoxidation of pure cyclohexane. Part II. A kinetic study 177
- Vetrivel, R., see Deka, R.C. 221
- Vishwanathan, V., see Mahata, N. 65
- Viswanathan, B., see Chakraborty, B. 253
- Wachs, I.E., see Burcham, L.J. 467
- Waller, P., see Schulz, H. 87
- Weckhuysen, B.M. and Schoonheydt, R.A.
 - Recent progress in diffuse reflectance spectroscopy of supported metal oxide catalysts 441
- Wei, A.C., see Chao, K.J. 277
- Weitkamp, J. and Traa, Y.
 - Isobutane/butene alkylation on solid catalysts. Where do we stand? 193
- Weitkamp, J., see Rakoczy, R.A. 261
- West, J., see Peter Williams, B. 99
- Wolf, U., Leiberich, R. and Seeba, J.
 - Application of infrared ATR spectroscopy to in situ reaction monitoring 411
- Wu, H.C., see Chao, K.J. 277
- Xavier, K.O., Sreekala, R., Rashid, K.K.A., Yusuff, K.K.M. and Sen, B.
 - Doping effects of cerium oxide on Ni/Al₂O₃ catalysts for methanation 17
- Xiong, J., see Keeler, C. 377
- Young, N.C., see Peter Williams, B. 99
- Yusuff, K.K.M., see Xavier, K.O. 17
- Zalusky, A., see Isbester, P.K. 363
- Zoeller, J.R., Buchanan, N.L., Dickson, T.J. and Ramming, K.K.
 - Molybdenum catalyzed ethylene carbonylation. II. Spectroscopic investigation of the reactions and equilibria of molybdenum hexacarbonyl and molybdenum halocarbonyls under reaction conditions 431
- Zoeller, J.R., see Lowman, D.W. 337