

## REFERENCES

- Abedi, A. A. H. (2007). Economic Analysis of a New Gas to Ethylene Technology, (May), 1–145.
- Adesina, A. A. (1996). Hydrocarbon synthesis via Fischer-Tropsch reaction: Travails and triumphs. *Applied Catalysis A: General*, 138(2), 345–367. [http://doi.org/10.1016/0926-860X\(95\)00307-X](http://doi.org/10.1016/0926-860X(95)00307-X)
- Al-Kinany, M. C., Al-Megren, H. a., Al-Ghilan, E. a., Edwards, P. P., Xiao, T., Al-Shammari, A. S., & Al-Drees, S. a. (2012). Selective zeolite catalyst for alkylation of benzene with ethylene to produce ethylbenzene. *Applied Petrochemical Research*, 2, 73–83. <http://doi.org/10.1007/s13203-012-0022-6>
- Arentz, F. B. (1925). Ethylene 459 uses. *Journal of Chemical Education*, 2(6), 459–462.
- Argyle, M. D., & Bartholomew, C. H. (2015). Heterogeneous Catalyst Deactivation and Regeneration: A Review. *Catalysts*, 145–269. <http://doi.org/10.3390/catal5010145>
- Ashtekar, S., Chilukuri, S. V. V., & Chakrabarty, D. K. (1994). Small-Pore Molecular Sieves SAPO-34 and SAPO-44 with Chabazite Structure: *Journal of Physical Chemistry*, 98, 4878–4883.
- Bartholomew, C. H. (1982). Carbon Deposition in Steam Reforming and Methanation. *Catalysis Reviews*, 24(1), 67–112.
- Bartholomew, C. H. (2001). Mechanisms of catalyst deactivation. *Applied Catalysis A: General*, 212(1–2), 17–60. [http://doi.org/10.1016/S0926-860X\(00\)00843-7](http://doi.org/10.1016/S0926-860X(00)00843-7)
- Bartholomew, C. H., & Farrauto, R. J. (2005). Hydrogen Production and Synthesis Gas Reactions. In *Fundamentals of Industrial Catalytic Processes* (Second Edi). NJ, USA: John Wiley & Sons, Inc.
- Beck, B., Fleischer, V., Arndt, S., Hevia, M. G., Urakawa, A., Hugo, P., & Schomäcker, R. (2014). Oxidative coupling of methane—A complex surface/gas phase mechanism with strong impact on the reaction engineering. *Catalysis Today*, 228, 212–218. <http://doi.org/10.1016/j.cattod.2013.11.059>
- Billuart, G., Bourgeat-Lami, E., Lansalot, M., & Monteil, V. (2014). Free radical emulsion polymerization of ethylene. *Macromolecules*, 47(19), 6591–6600. <http://doi.org/10.1021/ma5012733>

Borgh, K. Van der, Galvita, V. V., & Marin, G. B. (2014). Ethanol to higher hydrocarbons over Ni, Ga, Fe-modified ZSM-5: Effect of metal content. *Applied Catalysis A: General*, 492, 117–126. <http://doi.org/10.1016/j.apcata.2014.12.020>

Bukur, D. B., Koranne, M., Lang, X., Rao, K. R. P. M., & Huffman, G. P. (1995). Pretreatment effect studies with a precipitated iron Fischer-Tropsch catalyst. *Applied Catalysis A: General*, 126(1), 85–113. [http://doi.org/10.1016/0926-860X\(95\)00020-8](http://doi.org/10.1016/0926-860X(95)00020-8)

Cabral de Menezes, S. M., Lam, Y. L., Damodaran, K., & Pruski, M. (2006). Modification of H-ZSM-5 zeolites with phosphorus. 1. Identification of aluminum species by  $^{27}\text{Al}$  solid-state NMR and characterization of their catalytic properties. *Microporous and Mesoporous Materials*, 95(1–3), 286–295. <http://doi.org/10.1016/j.micromeso.2006.05.032>

Cai, H., Krzywicki, A., & Oballa, M. C. (2002). Coke formation in steam crackers for ethylene production. *Chemical Engineering and Processing*, 41(3), 199–214. [http://doi.org/10.1016/S0255-2701\(01\)00135-0](http://doi.org/10.1016/S0255-2701(01)00135-0)

Cameron, G., Le, L., Levine, J., & Nagulapalli, N. (2012). Process Design for the Production of Ethylene from Ethanol Process Design for the Production of Ethylene from Ethanol. *University of Pennsylvania*.

Chen, G., Li, S., Jiao, F., & Yuan, Q. (2007). Catalytic dehydration of bioethanol to ethylene over  $\text{TiO}_2/\gamma\text{-Al}_2\text{O}_3$  catalysts in microchannel reactors. *Catalysis Today*, 125(1–2), 111–119. <http://doi.org/10.1016/j.cattod.2007.01.071>

Chen, Y., Wu, Y., Tao, L., Dai, B., Yang, M., Chen, Z., & Zhu, X. (2010). Dehydration reaction of bio-ethanol to ethylene over modified SAPO catalysts. *Journal of Industrial and Engineering Chemistry*, 16(5), 717–722. <http://doi.org/10.1016/j.jiec.2010.07.013>

Chinniyomphanich, U., Wongwanichsin, P., & Jitkarnka, S. (2016).  $\text{Sn}_x\text{O}_y/\text{SAPO-34}$  as catalysts for catalytic dehydration of bio-ethanol: impacts of oxidation state, interaction, and loading amount. *Journal of Cleaner Production*, 111, 25–33. <http://doi.org/10.1016/j.jclepro.2015.09.069>

Corma, A., Mengual, J., & Miguel, P. J. (2012a). Stabilization of ZSM-5 zeolite catalysts for steam catalytic cracking of naphtha for production of propene and ethene. *Applied Catalysis A: General*, 421–422, 121–134. <http://doi.org/10.1016/j.apcata.2012.02.008>

Corma, A., Mengual, J., & Miguel, P. J. (2012b). Steam catalytic cracking of naphtha

over ZSM-5 zeolite for production of propene and ethene: Micro and macroscopic implications of the presence of steam. *Applied Catalysis A: General*, 417–418, 220–235. <http://doi.org/10.1016/j.apcata.2011.12.044>

Degnan Jr, T. F., Smith, C. M., & Venkat, C. R. (2001). Alkylation of aromatics with ethylene and propylene: recent developments in commercial processes. *Applied Catalysis A: General*, 221, 283–294.

Ding, M., De Jong, B., Roosendaal, S., & Vredenverg, A. (1998). XPS studies on the electron structure of bonding between solid and solutes: Adsorption of arsenate, phosphate,  $Pb^{2+}$ , and  $Zn^{2+}$  ions on amorphous black ferric oxyhydroxide. *Geochimica et Cosmochimica Acta*, 64(7), 1209–1219.

Doheim, M. (2002). Catalytic conversion of ethanol and isopropanol over the  $Mn_2O_3/Al_2O_3$  system doped with  $Na_2O$ . *Materials Letters*, 55(5), 304–311. [http://doi.org/10.1016/S0167-577X\(02\)00383-X](http://doi.org/10.1016/S0167-577X(02)00383-X)

Dry, J., Lawson, B., Le, P., Osisanya, I., Patel, D., & Shelton, A. (2003). Vinyl Chloride Production. *Marcel Dekker, Inc., Encyclopedia of PVC*, 1–9.

Elkins, T. W., & Hagelin-Weaver, H. E. (2015). Characterization of  $Mn-Na_2WO_4/SiO_2$  and  $Mn-Na_2WO_4/MgO$  catalysts for the oxidative coupling of methane. *Applied Catalysis A: General*, 497, 96–106. <http://doi.org/10.1016/j.apcata.2015.02.040>

Elshof, J. E., Bouwmeester, H. J. M., & Verweij, H. (1995). Oxidative coupling of methane in a mixed-conducting perovskite membrane reactor. *Applied Catalysis A: General*, 130(2), 195–212. [http://doi.org/10.1016/0926-860X\(95\)00098-4](http://doi.org/10.1016/0926-860X(95)00098-4)

Eramo, M. (2015). Global Ethylene Market Outlook: Low Cost Feedstocks Fuel The Next Wave of Investments In North America and China. Retrieved September 7, 2016, from [http://media.corporate-ir.net/media\\_files/IROL/11/110877/05\\_Global\\_Ethylene\\_Market\\_Outlook\\_Eramo.pdf](http://media.corporate-ir.net/media_files/IROL/11/110877/05_Global_Ethylene_Market_Outlook_Eramo.pdf)

Ezzo, E. M., El-Shobaky, G. A., & Selim, M. M. (1980). Catalytic conversion of alcohols on  $Al_2O_3-Cr_2O_3$  catalysts I: The catalytic decomposition of ethanol. *Surface Technology*, 10(1), 47–54. [http://doi.org/10.1016/0376-4583\(80\)90068-0](http://doi.org/10.1016/0376-4583(80)90068-0)

Ezzo, E. M., Yousef, N. A., & Mazhar, H. S. (1983). Studies of the mixed oxide catalyst  $Al_2O_3-Cr_2O_3$  III: The catalytic conversion of isopropanol. *Surface Technology*, 19(4), 373–378. [http://doi.org/10.1016/0376-4583\(83\)90042-0](http://doi.org/10.1016/0376-4583(83)90042-0)

Fisher. (2012). Ethylene Production. *Emerson Process Management*.

Forzatti, P., & Luca, L. (1999). Catalyst deactivation. *Catalysis Today*, 52(2–3), 165–181. [http://doi.org/10.1016/S0920-5861\(99\)00074-7](http://doi.org/10.1016/S0920-5861(99)00074-7)

Ghareghashi, A., Shahraki, F., Razzaghi, K., Ghader, S., & Torangi, M. A. (2016). Increasing ethylene production as a high value hydrocarbon in Fischer-Tropsch (FT) reactor: A concept reactor for combining FT with oxidative coupling of methane. *Korean Journal of Chemical Engineering*, 33(5), 1571–1589. <http://doi.org/10.1007/s11814-015-0286-5>

Haber, J., Pamin, K., Matachowski, L., Napruszewska, B., & Połtowicz, J. (2002). Potassium and Silver Salts of Tungstophosphoric Acid as Catalysts in Dehydration of Ethanol and Hydration of Ethylene. *Journal of Catalysis*, 207(2), 296–306. <http://doi.org/10.1006/jcat.2002.3514>

Han, Y., Lu, C., Xu, D., Zhang, Y., Hu, Y., & Huang, H. (2011). Molybdenum oxide modified HZSM-5 catalyst: Surface acidity and catalytic performance for the dehydration of aqueous ethanol. *Applied Catalysis A: General*, 396(1–2), 8–13. <http://doi.org/10.1016/j.apcata.2010.12.040>

Holmberg, B. A., Wang, H., Norbeck, J. M., & Yan, Y. (2003). Controlling size and yield of zeolite Y nanocrystals using tetramethylammonium bromide. *Microporous and Mesoporous Materials*, 59(1), 13–28. [http://doi.org/10.1016/S1387-1811\(03\)00271-3](http://doi.org/10.1016/S1387-1811(03)00271-3)

James, A. (2003). (12) United States Patent, I(12).

Jernberg, J., Nørregård, Ø., Olofsson, M., Persson, O., Thulin, M., Hulteberg, C., & Karlsson, H. (2015). Ethanol Dehydration to Green Ethylene, (May).

Kachan, D. (2011). *The Story of Ethylene...now starring natural gas.*

Kenson, R. E., & Lapkin, M. (1970). Reactions of Ethylene and Ethylene Oxide on a Silver Catalyst. *Kinetics and Mechanism of Ethylene Oxidation*, 74(7), 1493–1502.

Khodakov, A. Y., Chu, W., & Fongarland, P. (2007). Advances in the Development of Novel Cobalt Fischer – Tropsch Catalysts for Synthesis of Long-Chain Hydrocarbons and Clean Fuels Advances in the Development of Novel Cobalt Fischer – Tropsch Catalysts for Synthesis of Long-Chain Hydrocarbons and Clean Fuel. *Chemical Reviews*, 107(5), 1692–1744. <http://doi.org/10.1021/cr050972v>

Kistamurthy, D., Saib, A. M., Moodley, D. J., Preston, H., Ciobîcă, I. M., van Rensburg, W. J., Niemantsverdriet, J.W., Weststrate, C. J. (2015). The role of carboxylic acid in cobalt Fischer-Tropsch synthesis catalyst deactivation. *Catalysis*

*Catalysis Today*, 275, 127–134. <http://doi.org/10.1016/j.cattod.2015.11.012>

Laan, G. P. Vander, & Beenackers, A. A. C. M. (1999). Kinetics and Selectivity of the Fischer–Tropsch Synthesis: A Literature Review. *Catalysis Reviews: Science and Engineering*, 41(3–4), 255–318. <http://doi.org/10.1016/j.apcata.2013.10.061>

Lepoutre, P. (2013). The manufacture of polyethylene. *New Zealand Institute of Chemistry*, 1–5. Retrieved from <http://nzic.org.nz/ChemProcesses/polymers/10J.pdf>

Linde, A. (2016). Steamcracking technology. Retrieved August 21, 2016, from [http://www.linde-engineering.com/en/process\\_plants/chemical\\_and\\_petrochemical\\_plants/steam\\_cracking\\_technology/index.html](http://www.linde-engineering.com/en/process_plants/chemical_and_petrochemical_plants/steam_cracking_technology/index.html)

Lunsford, J. H. (2000). Catalytic conversion of methane to more useful chemicals and fuels:a challenge for the 21st century. *Catalysis Today*, 63, 165–174.

Morschbacker, A. (2009). Bio-Ethanol Based Ethylene. *Polymer Reviews*, 49(March 2015), 79–84. <http://doi.org/10.1080/15583720902834791>

Moulijn, J. A., Van Diepen, A. E., & Kapteijn, F. (2001). Catalyst deactivation: Is it predictable? What to do? *Applied Catalysis A: General*, 212(1–2), 3–16. [http://doi.org/10.1016/S0926-860X\(00\)00842-5](http://doi.org/10.1016/S0926-860X(00)00842-5)

Namuangruk, S., Pantu, P., & Limtrakul, J. (2004). Alkylation of benzene with ethylene over faujasite zeolite investigated by the ONIOM method. *Journal of Catalysis*, 225(2), 523–530. <http://doi.org/10.1016/j.jcat.2004.04.016>

Nguyen, T. T. N., Ruaux, V., Massin, L., Lorentz, C., Afanasiev, P., Maugé, F., Belliere, V., Rey, P., Millet, J. M. M. (2015). Synthesis, characterization and study of lanthanum phosphates as light alcohols dehydration catalysts. *Applied Catalysis B: Environmental*, 166–167(0), 432–444. <http://doi.org/http://dx.doi.org/10.1016/j.apcatb.2014.12.004>

Otsuka Kiyoshi, Qin Liu, Hatano Masaharu, M. A. (2013). Synthesis of Ethylene by Partial Oxidation of Methane Over the Oxides of Transition Elements with LiCl. *Journal of Chemical Information and Modeling*, 53(9), 1689–1699. <http://doi.org/10.1017/CBO9781107415324.004>

Pak, S., Qiu, P., & Lunsford, J. H. (1998). Thermal effects during the oxidative coupling of methane over Mn/Na<sub>2</sub>WO<sub>4</sub>/SiO<sub>2</sub> and Mn/Na<sub>2</sub>WO<sub>4</sub>/MgO catalysts. *Journal of Catalysis*, 179(3), 222–230.

Perego, C., & Ingallina, P. (2002). Recent advances in the industrial alkylation of aromatics: New catalysts and new processes. *Catalysis Today*, 73(1–2), 3–22. [http://doi.org/10.1016/S0920-5861\(01\)00511-9](http://doi.org/10.1016/S0920-5861(01)00511-9)

Perry, R., Green, D., & Maloney, J. (1997). *Perry's chemical engineers' handbook. Journal of Chemical Education*. <http://doi.org/10.10360071422943>

Phillips, C. B., & Datta, R. (1997). Production of Ethylene from Hydrous Ethanol on H-ZSM-5 under Mild Conditions. *Journal of the American Chemical Society*, 36(5), 239–244. <http://doi.org/10.1021/ie9702542>

Phung, T. K., & Busca, G. (2015a). Ethanol dehydration on silica-aluminas: Active sites and ethylene/diethyl ether selectivities. *Catalysis Communications*, 68, 110–115. <http://doi.org/10.1016/j.catcom.2015.05.009>

Phung, T. K., & Busca, G. (2015b). On the Lewis acidity of protonic zeolites. *Applied Catalysis A: General*, 504, 151–157. <http://doi.org/10.1016/j.apcata.2014.11.031>

Phung, T. K., Lagazzo, A., Rivero Crespo, M. Á., Sánchez Escribano, V., & Busca, G. (2014). A study of commercial transition aluminas and of their catalytic activity in the dehydration of ethanol. *Journal of Catalysis*, 311, 102–113. <http://doi.org/10.1016/j.jcat.2013.11.010>

Phung, T. K., Proietti Hernández, L., & Busca, G. (2015). Conversion of ethanol over transition metal oxide catalysts: Effect of tungsta addition on catalytic behaviour of titania and zirconia. *Applied Catalysis A: General*, 489, 180–187. <http://doi.org/10.1016/j.apcata.2014.10.025>

Phung, T. K., Proietti Hernández, L., Lagazzo, A., & Busca, G. (2015). Dehydration of ethanol over zeolites, silica alumina and alumina: Lewis acidity, Brønsted acidity and confinement effects. *Applied Catalysis A: General*, 493, 77–89. <http://doi.org/10.1016/j.apcata.2014.12.047>

Pop, G., Ivanus, B., Boteanu, S., Tomi, P., & Pop, E. (1986). United States Patent [ 19 ], 54–55.

Potter, T. (2012). Developments in Energy and feedstock Markets and the Impact on Petrochemicals. *IHS Chemical*, 1–2. Retrieved from <http://chemical.ihs.com/nl/Public/2009/0905/0905.html>

Ramasamy, K. K., Zhang, H., Sun, J., & Wang, Y. (2014). Conversion of ethanol to hydrocarbons on hierarchical HZSM-5 zeolites. *Catalysis Today*, 238, 103–110. <http://doi.org/10.1016/j.cattod.2014.01.037>

Ramesh, K., Hui, L. M., Han, Y. F., & Borgna, A. (2009). Structure and reactivity of phosphorous modified H-ZSM-5 catalysts for ethanol dehydration. *Catalysis Communications*, 10(5), 567–571. <http://doi.org/10.1016/j.catcom.2008.10.034>

Ramesh, K., Jie, C., Han, Y. F., & Borgna, A. (2010). Synthesis, characterization, and catalytic activity of phosphorus modified H-ZSM-5 catalysts in selective ethanol dehydration. *Industrial and Engineering Chemistry Research*, 49(9), 4080–4090. <http://doi.org/10.1021/ie901666f>

Rausch, A. K., Schubert, L., Henkel, R., van Steen, E., Claeys, M., & Roessner, F. (2015). Enhanced olefin production in Fischer-Tropsch synthesis using ammonia containing synthesis gas feeds. *Catalysis Today*, 275, 94–99. <http://doi.org/10.1016/j.cattod.2016.02.002>

Rebsdat, S., & Mayer, D. (2012). Ethylene Glycol. *Ullmann's Encyclopedia of Industrial Chemistry*, 547–572. <http://doi.org/10.1002/14356007.a10>

Ren, T., Patel, M., & Blok, K. (2006). Olefins from conventional and heavy feedstocks: Energy use in steam cracking and alternative processes. *Energy*, 31(4), 425–451. <http://doi.org/10.1016/j.energy.2005.04.001>

Ren, T., Patel, M., & Blok, K. (2008). Steam cracking and methane to olefins: Energy use, CO<sub>2</sub> emissions and production costs. *Energy*, 33(5), 817–833. <http://doi.org/10.1016/j.energy.2008.01.002>

Saceda, J. J. F., Rintramee, K., Khabuanchalad, S., Prayoonpokarach, S., de Leon, R. L., & Wittayakun, J. (2012). Properties of zeolite Y in various forms and utilization as catalysts or supports for cerium oxide in ethanol oxidation. *Journal of Industrial and Engineering Chemistry*, 18(1), 420–424. <http://doi.org/10.1016/j.jiec.2011.11.108>

Sagel, E. (2012). Polyethylene Global Overview Today ' s Presentation Global Overview. *Polypropylene Foro Pemex Junio 2012 Ciudad de Mexico*.

SEVAS Educational Society. (1970). Manufacture of Ethylene Oxide, 74(7), 25.

Shakhashiri, B. (2008). Phosphoric Acid , H<sub>3</sub>PO<sub>4</sub>, 2, 42–43.

Sheng, Q., Guo, S., Ling, K., & Zhao, L. (2014). Catalytic dehydration of ethanol to ethylene over alkali-treated HZSM-5 zeolites. *Journal of the Brazilian Chemical Society*, 25(8), 1365–1371. <http://doi.org/10.5935/0103-5053.20140118>

Sheng, Q., Ling, K., Li, Z., & Zhao, L. (2013). Effect of steam treatment on catalytic performance of HZSM-5 catalyst for ethanol dehydration to ethylene. *Fuel Processing Technology*, 110(2013), 73–78. <http://doi.org/10.1016/j.fuproc.2012.11.004>

Stansch, Z., Mleczko, L., & Baerns, M. (1997). Comprehensive Kinetics of Oxidative Coupling of Methane over the La<sub>2</sub>O<sub>3</sub>/CaO Catalyst. *Industrial & Engineering Chemistry Research*, 36(7), 2568–2579. <http://doi.org/10.1021/ie960562k>

Takahara, I., Saito, M., Inaba, M., & Murata, K. (2005). Dehydration of ethanol into ethylene over solid acid catalysts. *Catalysis Letters*, 105(3–4), 249–252. <http://doi.org/10.1007/s10562-005-8698-1>

Tanaka, H., Futaoka, M., & Hino, R. (2004). Surface modification of calcium hydroxyapatite with pyrophosphoric acid. *Journal of Colloid and Interface Science*, 269(2), 358–363. <http://doi.org/10.1016/j.jcis.2003.07.039>

Tao, Y., Kanoh, H., & Kaneko, K. (2003). Uniform Mesopore-Donated Zeolite Y Using Carbon Aerogel Templating. *Journal of Physical Chemistry*, 107, 10974–10976.

Technip. (2013). Ethylene Production, 1–15.

Tiemersma, T. ., Annaland, M. V. ., & Kuipers, J. A. . (2004). Simultaneous Production of Ethylene and Syngas By Combining. *Chemical Engineering*, 1–2.

Tobergte, D. R., & Curtis, S. (2013). Halogenation. *Journal of Chemical Information and Modeling*, 53(9), 1689–1699. <http://doi.org/10.1017/CBO9781107415324.004>

Twigg, G. H. (1946). The Mechanism of the Catalytic Oxidation of Ethylene I. Experiments Using a Flow System. *The Catalyst*, 188(1012), 92–103. <http://doi.org/10.1098/rspa.1983.0054>

University of York. (2014). Cracking and related refinery processes. Retrieved September 9, 2016, from <http://www.essentialchemicalindustry.org/processes/cracking-isomerisation-and-reforming.html>

Wang, D., Rosynek, M. P., & Lunsford, J. H. (1995). Oxidative Coupling of Methane over Oxide-Supported Sodium-Maganese Catalysts. *Journal of Catalysis*, 155, 390–402.

Xin, H., Li, X., Fang, Y., Yi, X., Hu, W., Chu, Y., Zhang, F., Zheng, A., Zhang, H., Li,

- X. (2014). Catalytic dehydration of ethanol over post-treated ZSM-5 zeolites. *Journal of Catalysis*, 312, 204–215. <http://doi.org/10.1016/j.jcat.2014.02.003>
- Yamamoto, T., Kim, Y. H., Kim, B. C., Endo, A., Thongprachan, N., & Ohmori, T. (2012). Adsorption characteristics of zeolites for dehydration of ethanol: Evaluation of diffusivity of water in porous structure. *Chemical Engineering Journal*, 181–182, 443–448. <http://doi.org/10.1016/j.cej.2011.11.110>
- Yoshimura, Y., Kijima, N., Hayakawa, T., Murata, K., Suzuki, K., Mizukami, F., Matano, K., Konishi, T. (2001). Catalytic cracking of naphtha to light olefins. *Catalysis Surveys From Japan*, 4(2), 157–167.
- Zaki, T. (2005). Catalytic dehydration of ethanol using transition metal oxide catalysts. *Journal of Colloid and Interface Science*, 284(2), 606–613. <http://doi.org/10.1016/j.jcis.2004.10.048>
- Zhan, N., Hu, Y., Li, H., Yu, D., Han, Y., & Huang, H. (2010). Lanthanum-phosphorous modified HZSM-5 catalysts in dehydration of ethanol to ethylene: A comparative analysis. *Catalysis Communications*, 11(7), 633–637. <http://doi.org/10.1016/j.catcom.2010.01.011>
- Zhang, D., Wang, R., & Yang, X. (2008). Effect of P content on the catalytic performance of P-modified HZSM-5 catalysts in dehydration of ethanol to ethylene. *Catalysis Letters*, 124(3–4), 384–391. <http://doi.org/10.1007/s10562-008-9481-x>
- Zhang, X., Wang, R., Yang, X., & Zhang, F. (2008). Comparison of four catalysts in the catalytic dehydration of ethanol to ethylene. *Microporous and Mesoporous Materials*, 116(1–3), 210–215. <http://doi.org/10.1016/j.micromeso.2008.04.004>