

1.1 Commercially published books:

"Gas Usage and Value - The Technology and Economics of Natural Gas Use in the Process Industries", PennWell Books, Tulsa OK, 2006 ISBN 1-59370-073-3

"Petrochemical Economics - Technology Selection in a Carbon Constrained World," Imperial College Press, London, 2010, ISBN-13 978-1-84816-534-2

"Hydroprocessing Catalysts and Processes - The Challenges for Biofuels Production" B. Zhang and D. Seddon eds.), World Scientific, 2018: ISBN 9781786344830

"The Hydrogen Economy - Fundamentals, Technology, Economics", World Scientific Publishing, 2022, ISBN 978981124854-2

Book Chapters:

D. Seddon "Methanol and dimethylether (DME) production from synthesis gas" in *Advances in clean hydrocarbon fuel processing*, (M.R. Kahn ed.) Woodhead Publishing , 2011

D. Seddon and M. C. Clarke, "Energy Security in Australia" in *Next Generation Disaster and Security Management*, (Clarke & Griffin eds.), Australian Security Research Centre, 2014

D. Seddon "Renewable Fuels and Fuel Regulation and Standards" in *Hydroprocessing Catalysts and Processes - The Challenges for Biofuels Production" B. Zhang and D. Seddon eds.), World Scientific, 2018*

1.2 Peer Reviewed Technical Papers

1. Chemistry of π -cyclopentadienyl nitrosyl molybdenum complexes; III, Dichloro and dibromo compounds and their Lewis base adducts.
J.A. McCleverty, **D. Seddon**.
J. Chem. Soc. Dalton Trans., 1972 (22) 2526
2. Chemistry of π -cyclopentadienyl nitrosyl molybdenum complexes; IV, Compounds containing bridging sulphur ligands.
J.A. McCleverty, **D. Seddon**.
J. Chem. Soc. Dalton Trans., 1972 (23) 2588
3. Electrochemical oxidation of thio-bridged binuclear π -cyclopentadienyl complexes of molybdenum, iron, cobalt, and nickel.
P.D. Frisch, M.K. Lloyd, J. A. McCleverty, **D. Seddon**.
J. Chem. Soc. Dalton Trans., 1983 (21) 2268
4. Molybdenum nitrosyl complexes containing bridging hydrazido groups. X-ray analysis of the structure of bis (π -cyclopentadienyl) - μ -(dimethyl hydrazido) diiododinitrosyl dimolybdenum.
W.G. Kita, J.A. McCleverty, B.E. Mann, **D. Seddon**, G.A. Sim, D.I. Woodhouse.
J. Chem. Soc., Chem. Commun., 1974 (4) 132

5. Chemistry of bis (cyclopentadienyl) nitrosyl molybdenum complexes. Hydrazide derivatives.
W.G. Kita, J.A. McCleverty, **D. Seddon**.
J. Less-Common Metals, 1974 **(36)** 203
6. Arylazo, aryldiimide, and isocyanide complexes of ruthenium.
J.A. McCleverty, **D. Seddon**, R.W. Whitely.
J. Chem. Soc. Dalton Trans., 1975 **(9)** 839
7. The Chemistry of cyclopentadienyl and related nitrosyl complexes of molybdenum. Part V. Dihalogenonitrosyl (tris (pyrazolyl) borato-molybdenum complexes, their alcoholysis, and the crystal structure of chloronitrosylisopropoxytris(4-chloro-3,5-dimethylpyrazolylborato) molybdenum.
J.A. McCleverty, **D. Seddon**, N.A. Bailey, J.N. Walker.
J. Chem. Soc. Dalton Trans., 1970 **(10)** 898
8. Dicarbonyl η^5 -cyclopentadienyl nitrosyl molybdenum and bis (dihalo- η^5 -cyclopentadienyl nitrosyl molybdenum) derivatives.
D. Seddon, W.G. Kita, J. Bray, J.A. McCleverty.
Inorg. Synth., 1976 **(16)** 24
9. The chemistry of cyclopentadienyl nitrosyl compounds of molybdenum. Part 13
E.A. Rae, **D. Seddon**, D. Swann, J. Williams
J. Chem. Soc. Dalton Trans., 1979 **(11)** 1819
10. Chemistry of bis (cyclopentadienyl) nitrosyl molybdenum complexes. Hydrazide derivatives.
W.G. Kita, J.A. McCleverty, **D. Seddon**
Chemistry and Uses of Molybdenum, Proc. of Conf. (1st) P.C.H. Mitchell (ed.) 1974, 109. Climax Molybdenum Co. Ltd. London.
11. The Effect of Aromatics on Methanol Conversion over Zeolite Catalysts.
J. Mole, J.A. Whiteside, **D. Seddon**.
J. Catal. 1983 **(82)** 261
12. The Properties of Magnesium and Zinc Oxide Treated ZSM-5 Catalysts for Conversion of Methanol into Olefin Rich Products.
R.J. McIntosh, **D. Seddon**.
Applied Catal. 1983 **(6)** 327
13. The Conversion of Aromatics over Dealuminised Mordenites.
D. Seddon
Applied Catal. 1983 **(7)** 327
14. Conversion of Methanol to Hydrocarbons over ZSM-5 Zeolite. An Examination of the Role of Aromatic Hydrocarbons using ¹³Carbon and Deuterium Labelled Feeds.
T. Mole, G. Bett, **D. Seddon**.
J. Catal., 1983 **(84)** 435
15. Ketones, Carboxylic Acids and Esters from Conversion of Aqueous Methanol over H-ZSM-5 Zeolite.
S. Deane, K. Wilshier, R. Western, T. Mole, **D. Seddon**
J. Catal., 1984 **(88)** 499
16. The Conversion of Natural Gas to Transport Fuels: An Appraisal of Present Technology.
D. Seddon
BHP Tech. Bull., 1983 **(27)** 84

17. Channel Arrangements and Activity of Some ZSM Zeolites
K. Foger, J.V. Sanders, **D. Seddon**
Zeolites, 1984 (4) 337
18. The Mechanical and Thermal Expansivity of Fu-1 Zeolite Pellets and a Method of Determining the Strength of Pellets under Simulated Full Scale Operation.
P.M. Paxton, **D. Seddon**.
Applied Catal., 1984 (12) 179
19. The Hygroscopic Properties of H-ZSM-5
S.G. Hill, **D. Seddon**
Zeolites, 1985 (5) 173
20. Further Comments on Aromatic Hydrocarbon Participation in Methanol Conversion
T. Mole, **D. Seddon**
J. Catal., 1985 (93) 207
21. Selectivity for para-Xylene in the Isomerisation of Xylenes Catalysed by Zeolites with Ten-Ring Windows
D. Seddon
J. Catal., 1986 (98) 1
22. The Design and Construction of a Multichannel Microreactor for Catalyst Evaluations
J.G. Creer, P. Jackson, G. Pandey, G.G. Percival, **D. Seddon**
Applied Catal., 1986 (22) 85
23. The Conversion of Ethene and Propene to High Hydrocarbons over ZSM-5.
S. Bessell, **D. Seddon**
J. Catal., 1987 (105) 270
24. Equilibrium Sorption of Paraffins in HZSM-5
R. Arbuckle, S.G. Hill, **D. Seddon**
Zeolites, 1987 (7) 438
25. The Crystal Size and Morphology of Silicalite as Influenced by Gel Nucleation Temperature, Alkalinity and Sodium Chloride Concentration.
S.G. Hill, K. Kinson, **D. Seddon**
Aus. J. Chem., 1988 (41) 783
26. The Conversion of Propylene into Gasoline and Middle Distillate using Alkalised ZSM-5 Zeolite Catalysts.
J.M. Baker, S. Bessell, **D. Seddon**
Applied Catal., 1988, 45, L1
27. The Conversion of Natural-Gas Condensate into Aromatics using Promoted Zeolite Catalysts.
G. Berti, J.E. Moore, L. Salusinszky and **D. Seddon**
Aus. J. Chem., 1989, 42, 2095
28. Paraffin Oligomerisation to Aromatics.
D. Seddon
Catalysis Today, 1990, 6, 351
29. Economics of Gas Conversion Projects in the North Sea and Barents Sea.
D.D.J. Antia and **D. Seddon**
Society of Petroleum Engineers paper SPE 20937, presented at Europec 90.
The Haag, Netherlands, 22-23 October 1990.
30. Comparison of the Sorption of Benzene in ZSM-5, Silicalite-1 and Silicalite-2

S.G. Hill and **D. Seddon**

Zeolites, 1991, **11**, 699

31. Reformulated Gasoline Opportunities for New Catalyst Technology

D. Seddon

Catalysis Today, 1992, **15**, 1

This paper has been reproduced by *InterCat* and *Paliwa Plynne*

Conference Proceedings and Grant Reports

1. New Fischer Tropsch Routes for the Conversion of Australian Natural Gas to Transport Fuels.
P.J. Jackson and **D. Seddon**
12th Australian Chemical Engineering Conference, CHEMICA 84, Melbourne, 1984, p.641.
2. The Conversion of Light Hydrocarbons to Liquid Fuels.
S.G. Hill, G.G. Percival, **D. Seddon** and S.C. Thompson
National Energy Research, Development and Demonstration Program; End of Grant Report NERDDP/EG/84/337, June 1984
3. Technologies for the Conversion of Natural Gas.
P.J. Jackson, **D. Seddon**, and N. White
Proc. Aust. Inst. Energy Nat. Conf. Melbourne 1985, p.233.
4. A Comparison of Process Routes for the Production of Transport Fuels from Natural Gas.
P.J. Jackson and **D. Seddon**
13th Australian Chemical Engineering Conference, CHEMICA 85, Perth, 1985, p.7.
5. Catalytic Conversion of Light Hydrocarbons to Liquid Fuels.
D. Seddon
National Energy Research, Development and Demonstration Program; End of Grant Report NERDDP/EG/87/664, December 1986
6. The Conversion of Australian Natural-Gas into Transport Fuels
D. Seddon
Chemistry in Australia, 1987, **54**, 202
7. Australian Research on the Conversion of Natural Gas Condensates and LPG into Aromatic Gasoline
D. Seddon
Chemistry in Australia, 1988, **55**, 281
8. Opportunities and Economics of the Mass Production of Methanol in South East Asia.
D. Seddon
National Conference on the Clean Air Act and Reformulated Fuels, October 1990, Washington DC
9. Maximising Profit from LPG Streams
D. Seddon
Offshore Australia (2nd Australian International Oil, Gas and Petrochemical Exhibition and Conference), Melbourne, November 1993
10. Offshore Refining: A Cost Effective Approach for Treating Associated Gas

DR. DUNCAN SEDDON - PUBLICATIONS

D.D.J. Antia and **D. Seddon**

Society of Petroleum Engineers Paper No. SPE 28858, presented at EUROPEC 94

11. Technology and Economics of Gas Utilization: Methanol
D. Seddon
Society of Petroleum Engineers Paper No. SPE 28790 presented at SPE Asia Pacific Oil & Gas Conference, Melbourne 1994
12. Exploiting New Opportunities for Cost Reduction and Addition of Value through Conversion of Offshore Gas to Oil.
D.D.J. Antia and **D. Seddon**
Strategy and Economics in the North Sea (SECONS94), IIR Ltd Conference, London, November 28-29, 1994
13. Gas Conversion: An Economic Alternative to Gas Reinjection
D.D.J. Antia and **D. Seddon**
Offshore South East Asia (Paper OSEA 94003), presented at OSEA, 10th Conference and Exhibition, Singapore, December 6-9th., 1994
14. Maximising Profit from LPG Streams: Economic Comparison of Alternative Use: II
D. Seddon
Refining, LNG and PetrochemAsia94, Singapore, December 7-8th., 1994
15. Offshore Conversion of Associated Gas to Synthetic Crude Oil: An Economic Option for Deep Water and Marginal Fields.
D.D.J. Antia and **D. Seddon**
Offshore Technology Conference (OTC Paper 7868), Houston, May 1995
16. Improving the Economics of Developing Very Deep Water Fields through the Conversion of Associated Gas to Crude Oil.
D.D.J. Antia and **D. Seddon**
Deeptec '95, an IIR conference, Aberdeen, February 1995
17. Feedstock Quality and Profits
D. Seddon
First Annual Condensate Forum, Penang, Malaysia, Oct 31 - Nov.1 1996
18. The Increasing Use of LPG Feedstock - Impact on LPG Pricing
D. Seddon
LPG ASIA '97, Hyatt Regency Singapore, September 15-17, 1997
19. Low Cost 10MMcf/d Gas to Syncrude Plant for Associated Gas
D.D.J. Antia and **D. Seddon**
Offshore Technology Conference, Houston May 4-7, 1998
20. What Price Hydrogen?
D. Seddon
Chemica 2004, Australian Technology Centre, September 27-30, 2004
21. Why is GTL So Expensive?
D. Seddon
SPE Asia Pacific Oil & Gas Conference, Perth, 18 - 20 October 2004. SPE Paper 88632
22. What Price Solvent
D. Seddon
SCAA Conference, Melbourne July 2005
23. Will GTL Economics and Technology Ease the Refining Sector or Compete with It?

- D. Seddon**
International Refinery Forum, Le Meridian Hotel and Spa, Dubai, UAE, December 2005
24. The Opportunities for Small Scale GTL for Eliminating Associated Gas
D. Seddon
Middle East Gas Summit (MEGAS), The Intercontinental Hotel, Doha, Qatar, February 19-21, 2006.
25. Hydrogen and Coal Hydrogenation - The Missing Links?
D. Seddon
Australian Journal Of Mining Coal Conference, Hyatt Perth, March 2006
26. The Hydrogen Economy: Economics of Hydrogen Production From Natural Gas
D. Seddon
SPE Asia Pacific Oil & Gas Conference and Exhibition, Adelaide 11-13 September 2006. SPE Paper 101703
27. Is LNG Competitive?
D. Seddon
Australian Journal Of Mining Coal Conference, Novotel, Brisbane, February 2008.
28. Can Gas Compete with Coal?
D. Seddon
"Gas World Australia", Terrapinn Conference, Sheraton, Perth, November 2008
29. "GTL - Where is the Industry Going"
D. Seddon
The 4th. Annual Coal to Liquids and Gas to Liquids Conference, Brisbane, February 2009
30. Some Aspects of the Impact of Carbon Pricing on Coal Based Industries
D. Seddon
World Petro-Coal Congress, Meridian Hotel, New Delhi, February 2011.
31. Naphtha from Coal: A Potential New Feedstock
D.Seddon
16th. Condensate and Naphtha Forum, Langkawi, Malaysia, March 2012
32. Selling GTL -Some Observations on Selling GTL products
D. Seddon
SMi GTL Conference, Marriott Hotel. London, October 2012
33. Some Does and Don'ts of Converting Coal and Biomass to Liquids
D. Seddon
World GTL Congress, Doha, January 2013
34. Selling GTL -Some More Observations on Selling GTL products
D. Seddon
SMi GTL Conference, Millennium Gloucester Hotel London, October 2013
35. Cleaning Underground Coal gasification Synthesis Gas, Prospects and Challenges
D. Seddon and M. Clarke
3rd. IEA Workshop on Underground Coal Gasification, Brisbane, Australia, November 7&8, 2013
36. The Value of Naphtha in Steam Cracking
D. Seddon
IRPC 2014 Verona, June 2014

Articles in Trade Magazines and Newspapers

1. Asian LPG - Comparing the Value of LPG Streams - Economics of LPG Use as a Feedstock for Gasoline, Chemicals and Power
D. Seddon
Hydrocarbon Asia, September 1995, p.80
2. Assessing the Value of Naphtha
D. Seddon
Singapore Oil Report, June 1995, p.8
3. Lubricating Oil Production: Selecting the Right Crude
D. Seddon
Singapore Oil Report, September 1995, p.8
4. Tech Problems with Emissions
D. Seddon
Australian Financial Review, April 7th. 1995, p.29
5. Huge Risks in Push to Lift LNG Exports
D. Seddon
Australian Financial Review, July 6th. 1995, p.19
6. Smog and Grog Add Fuel to the Ethanol Debate
D. Seddon
Australian Financial Review, April 7th. 1995, p.29
7. Fuelling the Excise Debate
D. Seddon
Australian Financial Review, January 17th. 1996, p.15
8. Gas Conversion to Syncrude
David Antia and **D. Seddon**
World Expro 1996, p.87
9. Increasing Use of LPG as a Petrochemical Feedstock - Impact on LPG Pricing
D. Seddon
LPG Asia 97, (IBC Conference), Singapore, 15-17 Sep., 1997
10. LPG Pricing Considered
D. Seddon
Hydrocarbon Asia, Nov/Dec. 97, p.38
11. The Manufacture of Aromatics in the Far East
D. Seddon
Hydrocarbon Asia, March 1998, p. 42
12. Can New Ethylene Plants Be Profitable
D. Seddon
Plastics International News, September 1999. p. 38
13. Ethylene margins in a period of Low Oil Prices: Signposts to Improving Profits
D. Seddon
Hydrocarbon Asia, September 1999. p. 32
14. Singapore To Become a Major Regional Force in Petrochemicals
D. Seddon
Plastics International News, December 1999. p. 12
15. Oil Refinery Rationalisation Will Be Risky and Costly
D. Seddon
Australian Financial Review, December 12th. 1999, p.17

16. Kyoto May Stall Virgin
D. Seddon
Australian Financial Review, December 16th. 1999, p.17
17. Other Fuel Disasters in the Pipeline
D. Seddon
Australian Financial Review, January 14th. 2000, p.37
18. Let's Lower Fuel Excise
D. Seddon
Australian Financial Review, February 22nd., 2000, p.19
19. Indonesian Petrochemicals: Down But Not Out
D. Seddon
Plastics International News, March 2000. p. 14
20. Japan Still Leads in Asian Petrochemicals
D. Seddon
Plastics International News, June 2000, p. 6
21. Plenty in the Kitty for Fuel Cuts
D. Seddon
Australian Financial Review, August 23, 2000
22. Excess Polyolefin Capacity in South Korea
D. Seddon
Plastics International News, September 2000. p. 16
23. Time to Stop wasting Money on Rebates
D. Seddon
Australian Financial Review, October 4th., 2000
24. Sell Low, Buy High: Its Good Business
D. Seddon
Australian Financial Review, December 5th., 2000
25. Price Rises Spur Growth in Thailand
D. Seddon
Plastics International News, December 2000. p. 28
26. Plastics and Biotech - A Tale of Two Industries
D. Seddon
Plastics International News, March, 2001., p. 27
27. Malaysian Petrochemicals Industry - Small but Growing
D. Seddon
Plastics International News, May 2001, p. 21
28. Singapore Revisited
D. Seddon
Plastics International News, August 2001, p. 18
29. Australia has the potential for an export-based petrochemical operation
D. Seddon
Plastics International News, September 2001, p. 30
30. Major Ethylene Plants planned for China
D. Seddon
Plastics International News, March 2002, p. 22
31. India Now a Major Regional Petrochemical Force

- D. Seddon**
Plastics International News, May 2002, p. 27
32. Polymer Supply in Australia: Where to Now?
D. Seddon
Plastics International News, October 2002, p. 6
33. Big Projects Torpedoed by Lack of Expertise
D. Seddon
Australian Financial Review, June 6th., 2003
34. China Gas Deal will Snuff Kyoto Protocol
D. Seddon
Australian Financial Review, November 5th., 2003
35. Petrochemical Plants in the Middle East
D. Seddon
Plastics International News, May 2003, p. 14
36. Gas to Olefins...a potential new industry for Australia
D. Seddon
Plastics International News, November 2003, p. 12
37. Resin Prices Higher in Australia....
D. Seddon
Plastics International News, January/February 2004, p. 24
38. Petrochemical Plants in the US
D. Seddon
Plastics International News, April 2004, p.28
39. US Driving Season Pumps up Fuel Prices
D. Seddon
Australian Financial Review, May 27th., 2004.
40. A 2004 Review of Ethylene Production in the Far East
D. Seddon
Plastics International News, June 2004, p.21
41. How is the rise in oil price affecting olefin and polymer prices?
D. Seddon
Plastics International News, August 2004, p. 19
42. Long Distance Pipelines in the Petrochemical Industry
D. Seddon
Plastics International News, November, 2004, p. 12
43. The impact of oil price on olefin and polymer prices...an update
D. Seddon
Plastics International News, January 2005, p. 32
44. Rising oil price puts pressure on coal
D. Seddon
Australian Financial Review, April 27th., 2005
45. Coal industry bedevilled by lack of information
D. Seddon
Australian Financial Review, May 17th., 2005
46. High oil price generates big profits for resin producers
D. Seddon

- Plastics International News*, May 2005, p. 24
47. Is the import of ethane into Australia feasible?
D. Seddon
Plastics International News, June 2005, p. 16
48. Free Trade with China - opportunities and threats to the Australian plastics industry.
D. Seddon
Plastics International News, July 2005, p. 34
49. Oil blame game is too crude
D. Seddon
Australian Financial Review, September 26th 2005
50. A future for the Australian petrochemical industry
D. Seddon
Plastics International News, September 2005, p. 47
51. West powerless as energy policy decays
D. Seddon
Australian Financial Review, February 2nd, 2006
52. Middle East set to dominate world supply and price
D. Seddon
Plastics International News, April, 2006, p. 29
53. World ethylene production capacity review
D. Seddon
Plastics International News, June 2006, p. 21
54. Chemical production in China 2006-
D. Seddon
Plastics International News, December, 2006, p. 4
55. Chemical and resin prices 2006
D. Seddon
Plastics International News, April 2007, p. 16
56. Proposals won't stop emissions
D. Seddon
Australian Financial Review, September 20th. 2007
57. Coal holds the carbon trading ace
D. Seddon
Australian Financial Review, May 12th 2008
58. Electricity Prices Set to Double
D. Seddon
Australian Financial Review, Sep. 24th 2008
59. Black Power - or why carbon trading will not work
D. Seddon
Australian Power Technologies - Energy Generation, July- September 2009, p. 32
60. Gas Push will inflate emissions
D. Seddon
Australian Financial Review, Feb 8th, 2011
61. Status of DME as an alternative fuel
D. Seddon
Australian Power Technologies - Energy Generation, October-November, 2011

62. Do Wind Farms/Gas Turbines Save Carbon?
D. Seddon
Australian Power Technologies - Energy Generation, October-December, 2013
63. The cost of wind/gas generation at a time of rising gas price
D. Seddon
Australian Power Technologies - Energy Generation, January-March, 2014
64. Do wind-farm/gas generators emit coal carbon dioxide than coal generators?
D. Seddon
Australian Power Technologies - Energy Generation, April-June, 2014
65. Helium, will it be the next mineral to boom in Australia
M. Clarke, **D. Seddon** and G. Ambrose
AusIMM Bulletin, No. 6, December 2014, p.83-85
66. Characterising competitive advantage
D. Seddon
Chemistry in Australia, March 2015, p. 36
67. Mineral processing at the margins
D. Seddon
Chemistry in Australia, April 2015, p. 36
68. Steam cracking: how do we stack up?
D. Seddon
Chemistry in Australia, May 2015, p. 36
69. Biofuels and biochemicals
D. Seddon
Chemistry in Australia, June 2015, p. 36
70. New coal chemistry
D. Seddon
Chemistry in Australia, July 2015, p. 36
71. Biodiesel and by-products - glycerine
D. Seddon
Chemistry in Australia, August 2015, p. 36
72. Declining refineries
D. Seddon
Chemistry in Australia, September 2015, p. 36
73. Are LNG exports more valuable than the chemical industry
D. Seddon
Chemistry in Australia, October 2015, p. 36
74. Fuel, chemical and commodity prices
D. Seddon
Chemistry in Australia, December 2015/January 2016, p. 36
75. Lithium production
D. Seddon
Chemistry in Australia, March 2016. p. 34
76. Graphite and graphene production
D. Seddon
Chemistry in Australia, April 2016. p. 36
77. Lessons learned from underground coal gasification technology

- D. Seddon**
Chemistry in Australia, October 2016. p. 36
78. Montreal and Kyoto - a personal view of two protocols
D. Seddon
Chemistry in Australia, November. p. 38
79. Ammonia - Fertilizer Production at the Crossroads
D. Seddon
Chemistry in Australia, February 2017
80. Hydrogen: Fuel of the (Far Distant) Future
D. Seddon
Chemistry in Australia, March 2017
81. Volatility in the Methanol Market
D. Seddon
Chemistry in Australia April 2017
82. Controlling Petrol Additives
D. Seddon
Chemistry in Australia, May 2017
83. The Energy Saga
D. Seddon
Chemistry in Australia, July 2017
84. The New World of Electric Cars
D. Seddon
Chemistry in Australia, October 2017
85. Separating CO₂ in Industry
D. Seddon
Chemistry in Australia, November 2017
86. Removing CO₂ from Flue Gas
D. Seddon
Chemistry in Australia, December/January 2018
87. Carbon Dioxide Disposal
D. Seddon
Chemistry in Australia, February 2018

Patents and Patent Applications

(Open for Public Inspection)

1. Transalkylation of alkylaromatic hydrocarbons over a silica containing catalyst, Fu-1.
D. Seddon
GB 1,599,423 (ICI Ltd)
2. Isomerisation of alkylbenzenes using a catalyst comprising Fu-1 zeolite and antimony oxide.
D. Seddon
GB 2,006,262 (ICI Ltd)
3. Alkylbenzene isomerisation using ion-exchanged Fu-1 zeolite as catalyst.
D. Seddon
GB 2,006,818 (ICI Ltd)
4. Hydrocarbon synthesis from methanol - using zeolite catalyst and hydrocarbon promoter.
D. Seddon, T. Mole, J. Whiteside
WO 8201866 (ICI Australia Ltd and CSIRO)
5. Ferrierite type synthetic zeolite Fu9
D. Seddon, T.V. Whittam
EP 55,529 (ICI plc).
6. Alkane and oxygenate production from alcohols by reaction with water and aromatic cpd. on zeolite catalyst.
D. Seddon, T. Mole, K.G. Wilshier
AU 8313449 (ICI Australia Ltd and CSIRO)
7. Conversion of methanol feedstock to hydrocarbon compounds - using H-ZSM-5 zeolite, forming high proportion of ethylene.
D. Seddon, T. Mole
AU 8285988 (ICI Australia Ltd and CSIRO)
8. Catalytic conversion of lower olefins to gasoline - using catalyst containing modified zeolite having basic cationic sites.
D. Seddon, S. Bessell.
GB 2,136,013; US 4,675,460; AU 24554/84
9. Olefinic gasoline preparation from light olefinic feedstock - by contacting with ZSM-5 zeolite containing sodium or potassium with added diluent to lower processing costs.
D. Seddon
GB 2,156,380; US 4,695,670 (BHP Ltd and CSIRO)
10. Kerosine and distillate range fuels oligomerised for propylene - using atmospheric pressure below 300°C with H-ZSM-5.
D. Seddon, G.G. Percival
GB 2,156,381 (BHP Ltd and CSIRO)
11. Production of Gasoline
D. Seddon
US Pat. 4,695,670 (to BHP Ltd and CSIRO)
12. Metal-Zeolite Catalysts
D. Seddon

DR. DUNCAN SEDDON - PUBLICATIONS

- Aus. Pat. Appl. 52153/86
13. Methanol to Distillate
K. Kinson and **D. Seddon**
Aus. Pat. Appl. 61171/86
 14. Methanol and Directly Reduced Iron Production
D. Seddon
Aus. Pat. 582897
 15. An Improved Fischer-Tropsch Process
D. Seddon and S.G. Hill
AU PI5969
 16. Catalysts for Olefin and Paraffin Conversion
D. Seddon.
PCT/AU89/00173
 17. Natural Gas to Liquid Products
D. Seddon
AU 35090/89
 18. A Process for Producing Wax
D. Seddon
AU 29777/92
 19. A Process for Recovering Crude Oil
D. Seddon
AU 57666/94

Other Publications

Through Hindsford and Duncan Seddon & Associates, I have published the following Monographs and Books.

1. The Conversion of Natural-Gas into Chemicals and Transport Fuels - A Guide to Opportunities in the Australian Region. October 1988
2. The Conversion of Natural-Gas into Chemicals and Transport Fuels - A Guide to Opportunities in Australasia. (2nd. Edition) April 1990
3. Methanol - Economics of Production - Comparison of Energy Transport by gas Pipeline, LNG and Methanol, Opportunities on the Pacific Rim, June 1991.
4. Ethylene - Economics of Production, Comparison of Technology from Ethane, LPG, Naphtha and Gas-Oil; April 1992
5. MTBE - Technology and Economics of Production: June 1992
6. LPG - Comparing the value of LPG Streams: Economics of LPG Use as a Feedstock for Gasoline, Chemicals and Power; July 1993
7. LPG - Comparing the value of LPG Streams: Economics of LPG Use as a Feedstock for Gasoline, Chemicals and Power; Second Edition; November 1994
8. Gas Utilization, November 1997
9. Gas Usage and Value, April 2004