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(56) References cited:

EP-A2- 2 465 605

- **TOLEDO-ANTONIO J A ET AL: "Highly active CoMoS phase on titania nanotubes as new hydrodesulfurization catalysts", APPLIED CATALYSIS B: ENVIRONMENTAL, ELSEVIER, vol. 90, no. 1-2, 25 July 2009 (2009-07-25), pages 213-223, XP026139931, ISSN: 0926-3373, DOI: 10.1016/J.APCATB.2009.03.024 [retrieved on 2009-03-27]**
- **ESCOBAR J ET AL: "Highly active sulfided CoMo catalyst on nano-structured TiO₂", CATALYSIS TODAY, ELSEVIER, NL, vol. 106, no. 1-4, 15 October 2005 (2005-10-15), pages 222-226, XP025356770, ISSN: 0920-5861 [retrieved on 2005-10-15]**

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- CORTES-JACOME ET AL: "Highly dispersed CoMoS phase on titania nanotubes as efficient HDS catalysts", CATALYSIS TODAY, ELSEVIER, NL, vol. 130, no. 1, 21 November 2007 (2007-11-21), pages 56-62, XP022355942, ISSN: 0920-5861, DOI: 10.1016/J.CATTOD.2007.07.012
- S DZWIGAJ ET AL: "New generation of titanium dioxide support for hydrodesulfurization", APPLIED CATALYSIS. B, ENVIRONMENTAL, vol. 41, no. 1-2, 1 March 2003 (2003-03-01), pages 181-191, XP055006721, ISSN: 0926-3373, DOI: 10.1016/S0926-3373(02)00210-2
- ESCOBAR J ET AL: "Highly active sulfided CoMo catalyst on nano-structured TiO₂", CATALYSIS TODAY, ELSEVIER, AMSTERDAM, NL, vol. 106, no. 1-4, 15 October 2005 (2005-10-15), pages 222-226, XP027834549, ISSN: 0920-5861 [retrieved on 2005-10-15]

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