

Articles Published in Refereed Proceedings

1. M.A. Carreon and V.V. Guliants, “Novel Macroporous Vanadium-Phosphorus-Oxides with Three-Dimensional Arrays of Spherical Voids”. *Studies in Surface Science and Catalysis*, 141, 309-316, 2002 (Nanoporous Materials III June 12-15, 2002, Ottawa, Canada).
2. M.A. Carreon and V.V. Guliants, “Synthesis and Characterization of Mesostructured Vanadium-Phosphorus-Oxide Phases”. *Studies in Surface Science and Catalysis*, 141, 301-308, 2002 (Nanoporous Materials III, June 12-15, 2002, Ottawa, Canada).
3. V.V. Guliants, J.B. Benziger, S. Sundaresan, and I.E. Wachs, “Molecular Structure-Reactivity Relationships in *n*-Butane Oxidation over Bulk VPO and Supported Vanadia Catalysts: Lessons for Molecular Engineering of New Selective Oxidation Catalysts for Alkane Oxidation”. *Studies in Surface Science and Catalysis*, 130, 1721-1727, 2000.
4. V.V. Guliants, J.B. Benziger, and S. Sundaresan, “The Oxidation of C-4 Molecules on Vanadyl Pyrophosphate Catalysts”. *Studies in Surface Science and Catalysis*, 101, 991-1000, 1996.
5. V.V. Guliants, V.S. Parbuzin, and M. Losev, “Preliminary Results of the Study of HD Sealed Cell”. *Comité Consultatif de Thermometrie*, Paris, France, Document CCT/89-42, 1989.

Articles Published in Non-Refereed Proceedings

1. A.M. Gaffney, S. Han, V.V. Guliants, R. Bhandari, P. Rosalez, H.H. Brongersma, “Model Mo-V-Te-O catalysts for propane oxidation to acrylic acid: New fundamental insights from studies of surface active sites”, Abstracts of Papers, 227th ACS National Meeting, Anaheim, CA, United States, March 28-April 1, 2004.
2. V.V. Guliants, M.A. Carreon, L. Yuan, “Thermally stable mesostructured mixed metal oxides”, Abstracts of Papers, 227th ACS National Meeting, Anaheim, CA, United States, March 28-April 1, 2004.
3. S. Kim, J. Ida, V.V. Guliants and Y.S. Lin, “Ordered mesoporous silica membranes for CO₂ separation from flue gas”, Preprints of Symposia – ACS, Division of Fuel Chemistry, 48(1), 392-393, 2003.
4. M.A. Carreon and V.V. Guliants, “Nanostructured mixed-metal oxides for partial oxidation of lower alkanes”, Abstracts of Papers, 225th ACS National Meeting, New Orleans, LA, United States, March 23-27, 2003.
5. J.N. Al-Saeedi, V. Vasudevan, V.V. Guliants, “Nanocrystalline Mo-V-Te-Nb oxide catalysts for selective propane oxidation to acrylic acid”, Abstracts of Papers, 225th ACS National Meeting, New Orleans, LA, United States, March 23-27, 2003.
6. J.N. Al-Saeedi, V.V. Guliants, “High-throughput experimentation in bulk mixed Mo-V-Sb-Nb oxide catalysts for selective oxidation of propane to acrylic acid”, Abstracts of Papers, 224th ACS National Meeting, Boston, MA, United States, August 18-22, 2002 (2002), PETR-026.
7. E.A. Guliants, M.A. Carreon, D.C. Abeysinghe, C. Ji, W.A. Anderson, V.V. Guliants, “Quantum size effect silicon structures via molecularly self-assembled hybrid templates”,

Materials Research Society Symposium Proceedings (2002), 728 (Functional Nanostructured Materials through Multiscale Assembly and Novel Patterning Techniques), 71-76.

8. M.A. Carreon and V.V. Guliants, "Nano and macroporous mixed metal oxide phases for selective oxidation of lower alkanes", Abstracts of Papers, 223rd ACS National Meeting, Orlando, FL, United States, April 7-11, 2002 (2002), CATL-066.
9. J.N. Al-Saeedi, V.V. Guliants, O. Guerrero, M.A. Banares, "Selective oxidation of propane to acrylic acid over bulk mixed Mo-V-Sb-Nb oxides: A study of structure-reactivity/selectivity relationships", Abstracts of Papers, 223rd ACS National Meeting, Orlando, FL, United States, April 7-11, 2002 (2002), CATL-043.
10. S. A. Holmes, V.V. Guliants, M. Carreon Garciduenas, "Studies of Active Sites Present in (100) Surface Planes of Vanadyl Pyrophosphate Using Methanol Probe Molecule", the 4th World Congress on Oxidation Catalysis, Berlin/Potsdam, September 16-21, 2001.
11. S. A. Holmes, V.V. Guliants, M. Carreon Garciduenas, "Investigation of Active Surface Sites of $(VO)_2P_2O_7$ Catalysts Using Methanol Probe Molecule", *American Chemical Society Abstracts*, 220, 27-CATL, Part 2, 2000.
12. V.V. Guliants, "Intercalation and Pillaring of Vanadium-Phosphorus-Oxide Catalysts for Selective Butane Oxidation", *American Chemical Society Abstracts*, 219, 21-CATL, Part 2, 2000.
13. V.V. Guliants, J.B. Benziger, S. Sundaresan, P. Heaney, D. Yates, I.E. Wachs, J.M. Jehng, G. Deo, "Transformation of VPO Precursor and the Nature of VPO Phase Selective in Butane Oxidation to Maleic Anhydride". *American Chemical Society Abstracts*, 215, 040-CATL, Part 2, 1998.
14. V.V. Guliants, J.T. Mullhaupt, J.M. Newsam, A.M. Gorman, C.M. Freeman, "Predicting Locations of Non-Framework Species in Zeolites". *American Chemical Society Abstracts*, 213, 38-PETR, Part 2, 1997.
15. J.B. Benziger, V.V. Guliants, and S. Sundaresan, "New Precursors to Vanadium Phosphorus Oxide Catalysts". *American Chemical Society Abstracts*, 210, 38-COLL, Part 1, 1995.
16. J.B. Benziger, V.V. Guliants, and S. Sundaresan, "Evolution of the Active Surface of VPO Catalysts". *American Chemical Society Abstracts*, 210, 67-COLL, Part 1, 1995.
17. J.B. Benziger, V.V. Guliants, and S. Sundaresan, "Synthesis of Intercalated Vanadyl(IV) Phosphates", *American Chemical Society Abstracts*, 208, 268-PHYS, Part 2, 1994.