# Jih-Mirn Jehng

List of Publications by Year
in descending order



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|---|---|---|---|
| 54 papers | 5,027 citations | 109321<br>35 h-index | 161849<br>54 g-index |
| 54 all docs | 54 docs citations | 54 times ranked | 5016 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Structural chemistry and Raman spectra of niobium oxides. Chemistry of Materials, 1991, 3, 100-107. | 6.7 | 598 |
| 2 | Alumina-Supported Manganese Oxide Catalysts. Journal of Catalysis, 1994, 150, 94-104. | 6.2 | 403 |
| 3 | Acidic properties of supported niobium oxide catalysts: An infrared spectroscopy investigation. Journal of Catalysis, 1992, 135, 186-199. | 6.2 | 337 |
| 4 | Identification of molybdenum oxide nanostructures on zeolites for natural gas conversion. Science, 2015, 348, 686-690. | 12.6 | 310 |
| 5 | Reactivity of V2O5Catalysts for the Selective Catalytic Reduction of NO by NH3: Influence of Vanadia Loading, H2O, and SO2. Journal of Catalysis, 1996, 161, 247-253. | 6.2 | 253 |
| 6 | Combined DRSâ€"RSâ€"EXAFSâ€"XANESâ€"TPR study of supported chromium catalysts. Journal of the Chemical Society, Faraday Transactions, 1995, 91, 3245-3253. | 1.7 | 188 |
| 7 | Molecular structure and reactivity of the Group V metal oxides. Catalysis Today, 2003, 78, 13-24. | 4.4 | 182 |
| 8 | The effect of the phase composition of model VPO catalysts for partial oxidation of n-butane. Catalysis Today, 1996, 28, 275-295. | 4.4 | 169 |
| 9 | The molecular structures and reactivity of supported niobium oxide catalysts. Catalysis Today, 1990, 8, 37-55. | 4.4 | 151 |
| 10 | Effect of water vapor on the molecular structures of supported vanadium oxide catalysts at elevated temperatures. Journal of Molecular Catalysis A, 1996, 110, 41-54. | 4.8 | 140 |
| 11 | In Situ UVâ€"visâ€"NIR Diffuse Reflectance and Raman Spectroscopic Studies of Propane Oxidation over ZrO2-Supported Vanadium Oxide Catalysts. Journal of Catalysis, 2002, 209, 43-50. | 6.2 | 139 |
| 12 | Molecular structure and reactivity of the group V metal oxides. Catalysis Today, 2000, 57, 323-330. | 4.4 | 138 |
| 13 | Fundamental Studies of Butane Oxidation over Model-Supported Vanadium Oxide Catalysts: Molecular Structure-Reactivity Relationships. Journal of Catalysis, 1997, 170, 75-88. | 6.2 | 132 |
| 14 | In Situ Raman Spectroscopy of Supported Transition Metal Oxide Catalysts:Â18O2â^'16O2Isotopic Labeling Studies. Journal of Physical Chemistry B, 2000, 104, 7382-7387. | 2.6 | 131 |
| 15 | Determination of the Chemical Nature of Active Surface Sites Present on Bulk Mixed Metal Oxide Catalystsâ€. Journal of Physical Chemistry B, 2005, 109, 2275-2284. | 2.6 | 113 |
| 16 | The formation of titanium oxide monolayer coatings on silica surfaces. Journal of Catalysis, 1991, 131, 260-275. | 6.2 | 100 |
| 17 | Quantitative determination of the number of surface active sites and the turnover frequency for methanol oxidation over bulk metal vanadates. Catalysis Today, 2003, 78, 257-268. | 4.4 | 100 |
| 18 | In situ Raman spectroscopy studies of bulk and surface metal oxide phases during oxidation reactions. Catalysis Today, 1996, 32, 47-55. | 4.4 | 98 |

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|---|---|---|---|
| 19 | Redox properties of niobium oxide catalysts. Catalysis Today, 1996, 28, 199-205. | 4.4 | 91 |
| 20 | Niobium oxide solution chemistry. Journal of Raman Spectroscopy, 1991, 22, 83-89. | 2.5 | 82 |
| 21 | In SituRaman Spectroscopy during the Partial Oxidation of Methane to Formaldehyde over Supported Vanadium Oxide Catalysts. Journal of Catalysis, 1997, 165, 91-101. | 6.2 | 78 |
| 22 | Surface modified niobium oxide catalyst: synthesis, characterization, and catalysis. Applied Catalysis A: General, 1992, 83, 179-200. | 4.3 | 72 |
| 23 | Molecular structures of supported niobium oxide catalysts under ambient conditions. Journal of Molecular Catalysis, 1991, 67, 369-387. | 1.2 | 71 |
| 24 | Spectroscopic and Computational Study of Cr Oxide Structures and Their Anchoring Sites on ZSM-5 Zeolites. ACS Catalysis, 2015, 5, 3078-3092. | 11.2 | 68 |
| 25 | Molecular design of supported metal oxide catalysts: An initial step to theoretical models. Journal of Molecular Catalysis, 1993, 82, 443-455. | 1.2 | 67 |
| 26 | Molecular design of supported niobium oxide catalysts. Catalysis Today, 1993, 16, 417-426. | 4.4 | 63 |
| 27 | Comparison of alcohol and alkane oxidative dehydrogenation reactions over supported vanadium oxide catalysts: in situ infrared, Raman and UVâ€“vis spectroscopic studies of surface alkoxide intermediates and of their surface chemistry. Catalysis Today, 2005, 99, 105-114. | 4.4 | 55 |
| 28 | Surface chemistry of silicaâ€“titania-supported chromium oxide catalysts. Journal of the Chemical Society, Faraday Transactions, 1995, 91, 953-961. | 1.7 | 54 |
| 29 | The synthesis, characterization of oxidized multi-walled carbon nanotubes, and application to surface acoustic wave quartz crystal gas sensor. Materials Chemistry and Physics, 2008, 109, 148-155. | 4.0 | 48 |
| 30 | Interactions between Surface Vanadate and Surface Sulfate Species on Metal Oxide Catalysts. Journal of Physical Chemistry B, 1998, 102, 6212-6218. | 2.6 | 46 |
| 31 | The molecular structures and reactivity of V2O5/TiO2/SiO2 catalysts. Catalysis Letters, 1992, 13, 9-19. | 2.6 | 45 |
| 32 | In Situ UVâˆ'Visâˆ'NIR Diffuse Reflectance and Raman Spectroscopy and Catalytic Activity Studies of Propane Oxidative Dehydrogenation over Supported CrO3/ZrO2Catalysts. Langmuir, 2004, 20, 7159-7165. | 3.5 | 45 |
| 33 | Highly dispersed Ag nanoparticles on modified carbon nanotubes for low-temperature CO oxidation. Applied Catalysis B: Environmental, 2011, 103, 221-225. | 20.2 | 42 |
| 34 | Hydrotalcite-like compounds containing transition metals as solid base catalysts for transesterification. Chemical Engineering Journal, 2011, 175, 548-554. | 12.7 | 39 |
| 35 | Selective Oxidation of 1-Butene over Silica-Supported Cr(VI), Mo(VI), and W(VI) Oxides. Journal of Catalysis, 1998, 176, 143-154. | 6.2 | 38 |
| 36 | XAFS study of niobium oxide on alumina. Catalysis Today, 1996, 28, 71-78. | 4.4 | 35 |

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|---|---|---|---|
| 37 | Vanadyl(IV) Phosphonates, VOCnH2n+1PO3.cntdot.xH2O (n = 0-4, x = 1 or 1.5), as Precursors of Vanadyl(IV) Pyrophosphate, (VO)2P2O7. Chemistry of Materials, 1995, 7, 1493-1498. | 6.7 | 29 |
| 38 | Title is missing!. Catalysis Letters, 2003, 85, 73-80. | 2.6 | 29 |
| 39 | Thermokinetic model simulations for methyl ethyl ketone peroxide contaminated with H2SO4 OR NaOH by DSC and VSP2. Journal of Thermal Analysis and Calorimetry, 2006, 83, 57-62. | 3.6 | 29 |
| 40 | The formation mechanisms of multi-wall carbon nanotubes over the Ni modified MCM-41 catalysts. Journal of Porous Materials, 2008, 15, 43-51. | 2.6 | 28 |
| 41 | Synthesis and characterization of carbon nanotubes on clay minerals and its application to a hydrogen peroxide biosensor. Materials Science and Engineering C, 2009, 29, 55-61. | 7.3 | 24 |
| 42 | Calorimetric studies on the thermal hazard of methyl ethyl ketone peroxide with incompatible substances. Journal of Hazardous Materials, 2007, 141, 762-768. | 12.4 | 22 |
| 43 | Raman characterization of alumina supported Moî—,Vî—,Fe catalysts: Influence of calcination temperature. Journal of Molecular Catalysis, 1993, 81, 63-75. | 1.2 | 21 |
| 44 | Amination of Polyethylene Glycol to Polyetheramine over the Supported Nickel Catalysts. Catalysis Letters, 2001, 77, 147-154. | 2.6 | 21 |
| 45 | Surface activation on multi-wall carbon nanotube for electrochemical capacitor applications. Applied Surface Science, 2012, 258, 3027-3032. | 6.1 | 19 |
| 46 | Molecular structure and sour gas surface chemistry of supported K2O/WO3/Al2O3 catalysts. Applied Catalysis B: Environmental, 2018, 232, 146-154. | 20.2 | 19 |
| 47 | Structural characteristics and reactivity properties of the tantalum modified mesoporous silicalite (MCM-41) catalysts. Microporous and Mesoporous Materials, 2007, 99, 299-307. | 4.4 | 16 |
| 48 | Water effect on the surface morphology of TiO2 thin film modified by polyethylene glycol. Applied Surface Science, 2013, 264, 470-475. | 6.1 | 16 |
| 49 | Structure Control of Metal Aluminum Phosphate (MeAlPO-5) Molecular Sieves and Applications in Polyethylene Glycol Amination. Catalysis Letters, 2004, 93, 213-223. | 2.6 | 7 |
| 50 | Experimental methods in chemical engineering: Temperature programmed surface reaction spectroscopyâ€"<scp>TPSR</scp>. Canadian Journal of Chemical Engineering, 2021, 99, 423-434. | 1.7 | 7 |
| 51 | Synthesis, characterization and electrochemical properties of Fe/MnO2 nanoparticles prepared by using solâ€"gel reaction. Journal of the Taiwan Institute of Chemical Engineers, 2014, 45, 475-480. | 5.3 | 6 |
| 52 | Ni-based nanocomposites supported on graphene nano sheet (GNS) for supercapacitor applications. Journal of Solid State Electrochemistry, 2014, 18, 189-196. | 2.5 | 5 |
| 53 | The formation of (NH4)2V6O16 phase in the synthesized InVO4 for the hydrogen evolving applications. Catalysis Communications, 2018, 103, 19-23. | 3.3 | 4 |
| 54 | Photocatalytic activity of the (NH4)2V6O16/g-C3N4 composite catalysts for water splitting applications. Catalysis Today, 2019, 325, 41-46. | 4.4 | 4 |