

Bibliografia

AKBARNEZHAD, S.; MOUSAVI, S. M.; SARHADDI, R. Sol-gel Synthesis of Alumina-titania Ceramic Membrane: Preparation and Characterization.

Indian Journal of Science and Technology, v. 3, n. 10, p. 1048-1051, 2010.

ALONSO, F. A. **Standard Test Method for Determination of Pore Volume and Pore Volume Distribution of Soil and Rock by Mercury Intrusion Porosimetry**. Universidad de Oviedo. United States, Pennsylvania, p. 1-7. 2011. (ASTM: D4404 - 10).

ANDERSON, M. A. . E. A. **Metal Oxide Membranes for Gas Separation**. 5342431, 30 Aug 1994.

ARAMENDÍA, M. A. E. A. Influence of the Preparation Method on the Structural and Surface Properties of Various Magnesium Oxides and their Catalytic Activity in the Meerwein-Ponndorf-Verley reaction. **Applied Catalysis A: General**, n. 244, p. 207-215, 2003.

BAKER, R. W. **Membrane Technology and applications**. California : [s.n.], 2004. 545 p.

BARRETO, S.; ARÉSTEGUI, V.; COSTA, R. E. **Analise de Intrusão de Mercúrio em Amostras de Material Sintético**. Laboratório de Interação Rocha-Fluido, LIRF-GTEP PUC-Rio. Rio de Janeiro, p. 11. 2011.

BARRY, C.; GRANT, N. **Ceramic Materials. Science and Engineering**. New York: [s.n.], 2007. 712 p.

BARSOUM, M. W. **Fundamentals of Ceramics**. Philadelphia: [s.n.], 2003. 603 p. ISBN 0 7503 0902 4.

BHAGIYALAKSHMI, M.; LEE, J. Y.; JANG, H. T. Synthesis of mesoporous magnesium oxide: Its application to CO₂ chemisorption. **International Journal of Greenhouse Gas Control**, v. 4, p. 51–56, 2010.

BRUNAUER, S.; EMMETT, P. H.; TELLER, E. Adsorption of Gases in Multimolecular Layers, p. 309-319, february 1938.

BV, L. Lenntech water treatment solutions BV. **Lenntech**. Disponível em: <<http://www.lenntech.com/ceramic-membranes.htm>>. Acesso em: 01 junho 2011.

CHEMICAL, S. **Colloid Science Volume I, Specialist Periodical Reports**. Great Britain.

CHEN, D.; JORDAN, E. H.; MAURICE, G. Pressureless Sintering of Traslucent MgO Ceramics. **Scripta Materialia**, v. 59, p. 757-759, 2008.

COELHO, A. **TOPAS, versão 3.0**. Software de análise pelo método Rietveld. [S.I.]: Bruker. 2003. lab. DRX/DEMa/PUC-Rio.

CRAVER, C.; CARRAHER, C. **Applied Polymer Science: 21st Century**. [S.I.]: Elsevier Science & Technology Books, 2000. 1038 p.

CRESGE, C. T. E. A. Ordered mesoporous molecular sieves synthesized by a liquid-crystal template mechanism. **Letters to Nature**, v. 359, p. 710-712, 1992.

DEL COLLE, R.; FORTULAN, C. A.; FONTES, S. R. Manufacture and characterization of ultra and microfiltration ceramic membranes by isostatic pressing. **Ceramics International**, v. 37, p. 1161–1168, 2011.

DING, Y. E. A. Nanoscale Magnesium Hydroxide and Magnesium Oxide Powders: Control over Size, Shape, and Structure via Hydrothermal Synthesis. **Chem. Mater.**, v. 13, p. 435-440, 2001.

FANG, H. E. A. Preparation of Nanometer MgO by Sol-gel Auto-combustion. **Front. Chem., China**, v. 3, n. 2, p. 193–197, 2008.

FANG, Y. E. A. Fabrication of Translucent MgO Ceramics Using Nanopowders. **Materials Letters**, v. 58, p. 551– 554, 2004.

FERNÁNDEZ-GARCÍA, M. E. A. Nanostructured Oxides in Chemistry: Characterization and Properties. **Chem. Rev.**, n. 104, p. 4063-4104, 2004.

FULVIO, P. F. **Synthesis and characterization of ordered mesoporous inorganic nanocomposite materials**. Ohio, p. 210. 2009. Doctoral Thesis.

GBOLAHAN, O. S.; MOJTABA, M. Effect Of Composition, Solvent Exchange Liquid And Drying Method On The Porous Structure Of Phenol–Formaldehyde Gels. **Journal Sol-Gel Science Technology**, v. 57, p. 178-184, 2011.

GUOZHONG, C. **Nanostructures and Nanomaterials: Synthesis, Properties and Applications**. Singapore: Imperial College Press , 2004. 433 p. ISBN 1-86094-415-9.

HEO, K. . E. A. Characterisation Of Pore Structures In Nanoporous Materials For Advanced Bionanotechnology. **IEE Proc Nanobiotechnol.**, v. 153, n. 4, p. 1-8, 2006.

HERNÁNDEZ, M. A. Evaluación de Mesoporos y Caracterización de Arcillas del Estado de Puebla, México. **Revista Internacional de Contaminación Ambiental**, México, v. 4, n. 19, p. 183-190, 2003.

ISHIZAKI, K.; KOMARNENI, S.; M., N. **Porous Materials, Process technology and applications**. Great Britain: Kluwer Academic Publishers, 1998. 240 p.

JEFFREY BRINKER, C.; SCHERER, G. W. **Sol-gel science: the physics and chemistry of sol-gel processing**. California: Academic Press Inc., 1990. 908 p.

JIUA, J. E. A. Preparation of Nanoporous MgO Using Gel As Structure-Direct Template. **Mat. Lett.** , v. 58, p. 44–47, 2008.

JULBE, A.; FARRUSSENG, D.; GUIZARD, C. Porous ceramic membranes for catalytic reactors - overview and new ideas. **Journal of Membrane Science**, v. 181, p. 3-20, 2001.

KANG, L. **Ceramic membranes for separation and reaction**. London, UK: John Wiley and sons Ltd., 2007. 306 p. ISBN ISBN: 978 0 470 01440 0.

KUMARR, A.; SUMAR, J. Defect And Adsorbate Induced Infrared Modes In Sol-Gel Derived Magnesium Oxide Nano-Crystallites. **Solid State Communications**, v. 147, p. 405–408, 2008.

LATHA KUMARI, W. Z. E. A. Synthesis, Characterization And Optical Properties Of Mg(OH)2 Micro-Nanostructure And Its Conversion To Mgo. **Ceramics International**, v. 35, p. 3355–3364, 2009.

LLEWELLYN, P. L. E. A. Critical Appraisal of the Use of Nitrogen Adsorption for the Characterization of Porous Carbon. **Studies in Surface Science and Catalysis**, v. 128, p. 421-427, 2000.

LÓPEZ, T.; GARCÍA-CRUZ, I.; GÓMEZ, T. Synthesis Magnesium Oxide By Sol-Gel Method: Efect Of The Ph On The Surface Hidroxilation. **Journal of Catalysis**, v. 127, p. 75-85, 1999.

MALLIDI, S. T. Aplication of Mercury Intrusion Porosimetry on Clay bricks to Assess Freeze-thaw Durability: a bibliography with abstracts. **Construction and Building Materials**, v. 10, n. 6, p. 461-465, 1996.

MONCADA, E.; QUIJADA, R.; RETUERT, J. Nanoparticles prepared by the sol-gel method and their use in the formation of nanocomposites with polypropylene. **Nanotechnology**, v. 18, n. 335606, p. 1-7, 2007.

NICHOLSON, D.; SING, K. S. W. Adsorption at the Gas Interface. **Colloid Science**, v. 3, p. 1-62, 1979.

NORAZIAHWATI, I. **Synthesis And Characterization Of Mgo Nanopowders By Sol-Gel Method Incorporated Reflux Approach**. Universiti Teknologi MARA. Mara, p. 14. 2010. Final Year Project Report

Submitted in Partial Fulfilment of the Requirements for the Degree of Bachelor of Science (Hons.) Chemistry in the Faculty of Applied Sciences.

RAHAMAN, M. N. **Ceramic Processing and Sintering**. New York : Taylor and Francis e-library, 2003. 876 p.

RIGBY, S. P. E. A. Characterisation of porous solids using a synergistic combination of nitrogen sorption, mercury porosimetry, electron microscopy and micro-focus X-ray imaging techniques. **Phys. Chem.**, v. 4, p. 3467–3481, 2002.

ROUQUEROL, J.; ROUQUERON, F.; SING, K. Adsorption by Powders and Porous Solids. London: Academic Press, 1999. Cap. 4, p. 93 - 113.

SHACKELFORD, J. F.; DOREMUS, R. H. **Ceramic and Glass Materials: Structure, Properties and Processing**. New York : Springer, 2008. 209 p.

SING, K. The Use of Nitrogen Adsorption for the Characterization of Porous Materials: Review. **Colloids and Surfaces A: Physicochemical and Engineering Aspects**, v. 187–188, p. 3–9, 2001.

SING, K. S. W. E. A. Reporting Physisorption Data for Gas/Solid Systems. With special reference to the determination of surface area and porosity. **Pure and Applied Chem.- IUPAC** , Great Britain, , v. 57, n. 4, p. 603-619, 1985.

SUBRAMANIA, A.; ANGAYARKANNI, N.; VASUDEVAN, T. Effect of PVA with various combustion fuels in sol–gel thermolysis process for the synthesis of LiMn₂O₄ nanoparticles for Li-ion batteries. **Materials Chemistry and Physics**, v. 102, p. 19–23, 2007.

SUZUKI, Y.; MORGAN, P. Meso- and Macroporous Ceramics by phase Separation and Reactive Sintering Methods. **Mrs. Bulletin**, v. 34, p. 587-591, 2009.

VAN BRAKEL, J.; MODRY, S.; SVATA, M. Mercury Porosimetry: State of the Art. **Powder Technology**, v. 29, p. 1-12, 1981.

VITALIJ, K.; PECHARSKY; ZAVALIJ, Y. Fundamentals of powder diffraction and structural characterization of materials. **springer science**, New York, p. 732, 2003.

WANG, W.; QIAO, X.; CHEN, J. Facile synthesis of magnesium oxide nanoplates via chemical precipitation. **Materials Letters** , 2006.

WANG, Z. L. E. A. In-situ formation of MgO₂ thin films single-crystal surfaces at high temperatures. **Surface science**, v. 273, p. 88-108, 1992. abstract disponivel online, (www.sciencedirect.com).

WARA, N. M. **Processing of Macroporous Ceramics Through Ceramic-Polymer Dispersion Methods**. Minnesota, p. 215. 1996. Thesis (Doctor of Philosophy) University of Minnesota.

WEERAPATH, P. O.; SIWAPORN, M.; I-MING, T. Formation of Hydroxyapatite Crystallites Using Organic Template of Polyvinyl Alcohol (PVA) and Sodium Dodecyl Sulfate (SDS). **Materials Chemistry and Physics**, v. 112, p. 453-460, 2008.

WEN-CIU, L. E. A. Hard templating pathway to create mesoporous magnesium oxide. **Chemical Materials**, v. 16, p. 5676-5681, 2004.

YONGJUN, H. MgO nanostructured microspheres synthesized by an interfacial reaction in a solid-stabilized emulsion. **Materials Letters**, v. 60, p. 3511-3513, 2006.