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Research Interests:

Nano Materials, Ceramic Materials, Electronic Materials, Metals and Alloys, Composites, Electrode Kinetics, Corrosion Engineering, Advanced Electrochemical Engineering, IC Processing, Lithium Ion Battery, Fuel Cells and Batteries, Organic Chemistry, Syntheses of High-Valued Organic Compounds, Analytical Chemistry, Photoelectrochemistry, Photochemistry, Sensors, Wastewater Treatment and Waste Gases Treatment and Pollution Control, Extraction of Aromatics from Petroleum, Numerical Analysis and etc.

Recent Publications :

- (1).Chen-Feng Kao and Gin-Da Lee, 1998, Preparation and Electric Properties of Lanthanum-Tin-Zirconium Oxides by Coprecipitation Combined with High Temperature Melting, Ceramic Transactions (U.S.A), Vol. 90, pp.47-64.
- (2).Chen-Feng Kao and Chu-Ping Rou, 1998, Preparation and Electrical Properties of Lanthanum-Molybdenum-Zirconium Oxides by Chemical Coprecipitation, Ceramic Transactions (U.S.A.), Vol. 90, pp87-103.
- (3).Chen-Feng Kao and Wein-Duo Yang, 1999, Preparation of Barium Strontium Titanate Powder from Citrate Precursor, Applied Organometallic Chemistry (United Kingdom), Vol.13, pp.383-397.
- (4).Chen-Feng Kao and Charng-Lih Jeng, 1999, Preparation and Characterization of Lanthanum Nickel Oxides by Coprecipitation Combined With Molten Salt Reactions, Ceramics International (United Kingdom), Vol.25, pp.375-382.
- (5).Chen-Feng Kao and Charng-Lih Jeng, 1999, Preparation of Lithium-Titanium Oxide by Alcohol Burning Out Process, Ceramic Transactions (USA), Vol.94, pp.427-439.
- (6). Chen-Feng Kao and Kou-Fang Huang, 1999, Preparation and Low-Frequency Electrical Properties of LaFeO_3 by Chemical Coprecipitation, Ceramic Transactions (USA), Vol. 100, pp. 115-135.
- (7).Chen-Feng Kao and Chiao-Ling Yang, 1999, Preparation and Electrical Properties of Barium Titanate Film by Hydrothermal Method, J. European Ceramic Society (Great Britain), Vol.19,pp. 1365-1368.

- (8).Chen-Feng Kao and Wen-Churng Lin, 1999, Liquid Equilibria of the Ternary Systems Dodecane + Butylbenzen +Sulfolane, Dodecane + 1,4-Diisopropylbenzene + Sulfolane and Dodecane + Octylbenzene + Sulfolan , J. Chemical and Engineering Data, The American Chemical Society, Vol.44, pp.338-342.
- (9).Chen-Feng Kao and Cheng-Liang Zheng, 1999, Electrochemical Behaviour of Oxygen at Cathodic Material Nickel Nest with a Catalyst $\text{La}_{1-x}\text{Sr}_x\text{CoO}_3$, Solid State Ionics, Vol.120, pp.163-171, Elsevier Science(Ireland).
- (10).Chen-Feng Kao and Wen-Churng Lin, 1999, Liquid-Liquid Equilibria of Alkane (C10-C14) + Butylbenzene +Sulfolane, J. Chemical and Engineering Data, The American Chemical Society, Vol.44, pp.803-808.
- (11).Chen-Feng Kao and Wen-Churng Lin, 1999, Liquid-Liquid Equilibria of Alkane (C10-C14) +1,4-Diisopropylbenzene + Sulfolane at 323.15, 348.15 and 373.15 K, Fluid-Phase Equilibria ,Elsevier Science(Ireland), Vol.163,pp.9-20..
- (12).Chen-Feng Kao and Wen-Churng Lin, 1999, Liquid-Liquid Equilibria of Alkane (C10-C14) + Octylbenzene +Sulfolane, Fluid-Phase Equilibria ,Elsevier Science(Ireland), Vol.165,pp.67-77.
- (13).Chen-Feng Kao , 1999, Sol Preparation of Ultramicro Strontium Titanate Ceramic and Its Dielectric Properties, Chemical Engineering(The Chin I. Ch. E.) Vol. 46, No. 5, pp.24-45.
- (14).Chen-Feng Kao and Charng-Lih Jeng, 2000, Preparation and Characterisation of Lanthanum Nickel Strontium Oxides by Combined Coprecipitation and Molten Salt Reactions, Ceramics International (United Kingdom), Vol. 26, pp.237-243.
- (15).Wein-Duo Yang, Kun-Ming Hung and Chen-Feng Kao, 2000, Preparation and Dielectric Properties of Semiconducting Lanthanum-Doped Strontium Titanate Ceramics From Titanyl Citrate Precursors, Ceramics International(United Kingdom), Vol. 26, pp.475-484.
- (16).Chen-Feng Kao and Ming-Shiou Wu, 2000, Preparation and Characterization of Lithium-Manganese-Vanadium Oxide Ceramic Matrix Composites by Chemical Coprecipitation, Ceramic Transactions, Vol. 103, pp. 105-123, USA.
- (17).Chen-Feng Kao and Chiao-Ling Yang, 2000, Electrical Properties of La_2O_3 -Doped BaTiO_3 From Hydrothermal Method, Ceramic Transactions, Vol. 108, pp. 481-491, USA.
- (18). Chen-Feng Kao and Chiao-Ling Yang, 2000, Synthesis and Electrical Properties of Strontium Titanate by Hydrothermal Method, Ceramic Transactions, Vol.115, pp.499-510 USA.
- (19). Chen-Feng Kao and Hun-Kai Chan, 2000, Fabrication of Strontium Silicate by Sol-Preparation Method, Processing and Fabrication of Advanced Materials VIII ,pp.477-487, Singapore.
- (20). Chen-Feng Kao and Charng-Lih Jeng, 2001, Preparation and Characterization of the Lanthanum Nickel Cobalt Oxide Ceramic Matrix by Combined Coprecipitation and Molten Salt Reactions, Ceramic Transaction, Vol. 124, pp. 197-206.
- (21) Chen-Feng Kao and Su-Shieh Lee, 2002, Synthesis and Electrical Properties of Nb_2O_5 -Doped SrSiO_3 Thin-Film by Hydrothermal Method, 5th International Conference on Solvo-Thermal Reactions Program/Proceedings (USA).-
- (22) Chen-Feng Kao and Chieng-Teh Wu, 2003, Preparation and Characterization of La-In-Mg-O and La-In-Ca-O Ceramic Matrix Composites, Ceramic Transactions, Vol. 153, pp.125-138, USA.
- (23) Chen-Feng Kao and Chieng-Teh Wu, 2003, Synthesis and Electrical Properties of Super Ionic Conductor of Sr-Doped or Ba-Doped LaInO_3 , Ceramic Transactions, Vol. 154, pp. 245-258, USA.