

Volume 1

Ceramic Transactions

CERAMIC POWDER SCIENCE

Gary L. Messing • Edwin R. Fuller, Jr. • Hans Hausner



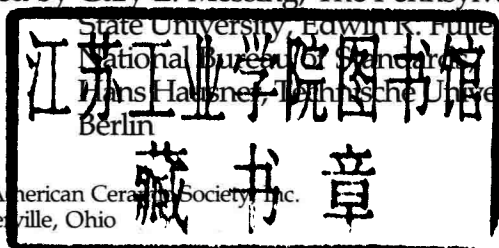
Volume 1

Ceramic Transactions

CERAMIC POWDER SCIENCE II

Edited by Gary L. Messing, The Pennsylvania
State University, Edwin R. Fuller, Jr.,
National Bureau of Standards,
Hans Haubner, Technische Universität
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Foreword

This volume contains the proceedings of the 1st International Conference on Ceramic Powder Processing Science held in Orlando, Florida, on November 1-4, 1987. The meeting was co-sponsored by the American Ceramic Society and the Deutsche Keramische Gesellschaft and coorganized by Drs. Gary L. Messing, Edwin R. Fuller, Jr., and Hans Hausner. More than 400 scientists and engineers from university, industry, and government laboratories attended the conference with 153 papers contributed from Brazil, Canada, China, England, France, India, Italy, Japan, Korea, Mexico, Spain, Sweden, Taiwan, the United States, and West Germany.

This book contains 16 of the 19 invited presentations and 112 of the 134 contributed papers selected after on-site peer review. The meeting organizers would like to acknowledge Martin Harmer, Jim Adair, Robert Cook, David Payne, Michael Sacks, Mark Janney, Raj Bordia, John Blendell, Mufit Akinc, Steve Danforth, James McArdle, Bill Minehan, John Kelso, Derek Sproson, Nancy Tighe, and Oh Hun Kwon for their able assistance in coordinating manuscript reviews. Also, the assistance in handling the "behind the scenes" details by Debra Horn, Mianxue Wu, Shi Chang Zhang, Gye Song Lee, and Jill Glass is particularly appreciated.

The meeting, and thus this volume, was organized to reflect the intimate connections between all phases of powder processing and the final ceramic properties. The speakers were invited from a diversity of scientific disciplines to present the scientific foundations for many of the individual process steps and to determine the scientific status of these various processes. The focused areas for discussion include Solution Synthesis, Vapor Synthesis, Powder Dispersion, Processing Additives, Forming, Sintering, and Ceramic Property and Powder Processing Relations. Finally, it was the goal of the meeting organizers to bring together experts in various aspects of ceramic processing and their ceramic property counterparts so they they identify their common interests and thus form collaborations that will result in improved and more reliable advanced ceramics.

January 6, 1988
Edwin R. Fuller, Jr.

Gary L. Messing
Hans Hausner

Ceramic Transactions is a new proceedings series designed to meet two needs: high quality content and rapid publication. Volumes in the series come from meetings, symposia, and forums. Each paper is reviewed by two peers, and final manuscripts are prepared by authors in a "camera-ready" format. The volumes in this series would not be possible without the hard work, dedication, and cooperation of editors, reviewers, and authors, who all deserve a great deal of thanks.

Your comments, questions, and suggestions for future *Ceramic Transactions* volumes are welcomed and should be addressed to the Director of Publications, The American Ceramic Society, Inc.

Contents

Part A

Section I. Solution Synthesis of Ceramic Powders

The Future of Chemical Processing for Ceramics	3
P.E.D. Morgan	
The Mechanisms of Growth and Dissolution of Sparingly Soluble Salts	8
G.H. Nancollas	
Preparation of Monodispersed Zirconia Powders from Solution	23
G. Rinn and H. Schmidt	
Synthesis of ZnO Particles by the Homogeneous Precipitation Method	31
Y. Sakka, K. Halada, and E. Ozawa	
Synthesis of Calcium Carbonate by Electrical Conductivity Monitoring	39
H. Yamada and N. Hara	
Solubility Relationships in the Coprecipitation Synthesis of Barium Titanate: Heterogeneous Equilibria in the Ba-Ti-C₂O₄-H₂O System	47
K. Osseo-Arare, F.J. Arriagada, and J. H. Adair	
0-3 Piezoelectric Composites Prepared by Coprecipitated Lead Titanate Powder Using Spray Atomization	54
A. Srinivasa Rao and A. Safari	
Powder Synthesis of SrTiO₃ Boundary Layer Capacitor Materials	62
B.A. Tuttle and J.A. Voigt	

The Preparation of Sinterable Yttria and Erbium-TZP Powders	70
P. Duran, P. Recio, J.R. Jurado, C. Pascual, and C. Moure	
Low Temperature Chemical Approaches to Superconductive Materials: A Challenge in Chemical Synthesis	79
J.J. Ritter	
Synthesis and Properties of Stoichiometric Barium Titanate Powder Derived from a Catechol Precursor Complex	85
N.J. Ali and S.J. Milne	
Coprecipitated BaTiO₃-Based Powders Formulated from Catechol Coordination Compounds	94
R.H. Heistand II, L.G. Duquette, F.P. Skeele, E.M. Ekmejian, and T.D. Gregory	
Synthesis of Reactive Yttria Powders Using an Aqueous Organic Polymer Precursor	102
A.L. Micheli	
Synthesis and Characterization of Yttria Powders by Emulsion Precipitation	110
A. Celikkaya and M. Akinc	
Preparation of 2ZrO₂-Yb₂O₃ by Emulsion Techniques	119
T. Kanai, W.E. Rhine, and H.K. Bowen	
The Role of Freeze-Drying in Ceramic Powder Processing	127
F. Dogan and H. Hausner	
Precipitation and In-Situ Transformation in the Hydrothermal Synthesis of Crystalline Zirconium Dioxide	135
J.H. Adair, R.P. Denkwicz, F.L. Arriagada, and K. Osseo-Arare	
Wet Chemical Synthesis of Zirconia Powders	146
G.W. Kriechbaum, P. Kleinschmit, and D. Peuckert	
Hydrothermal Formation Diagram in the Lead Titanate System	154
D.J. Watson, C.A. Randall, R.E. Newnham, and J.H. Adair	
Hydrothermal Synthesis of Lead Titanate Fine Powders	163
M. Suzuki, S. Uedaira, H. Masuya, and H. Tamura	

Chemical Synthesis of Ceramic Powders by Organometallic Routes	171
S. Hirano	
Sol-Gel Processing of Lead Magnesium Niobate (PMN) Powder and Its Characterization	182
P. Ravindranathan, S. Komarneni, A.S. Bhalla, R. Roy, and L.E. Cross	
Sol-Gel Route to Fine Powder of Fresnoite	190
S.C. Choi, S. Komarneni, S.J. Jang, A.S. Bhalla, and L.E. Cross	
Synthesis of Pure and Yttria Fully Stabilized Zirconia Powders by Hydrolysis of Tetra N-Butyl Zirconate	196
P.C. Kong, W. Wallenhorst, K. McHenry, and B. Koepke	
Preparation and Characterization of Fine Rare-Earth Oxide Powders through Alkoxide Processes	204
F. Imoto, T. Nanataki, and S. Kaneko	
Sol-Gel Synthesis of $MgAl_2O_4$ Spinel Powders for Optical Ceramics	211
C.D. le Bail, C.A. Natalie, G.P. Martins, and D.L. Olson	
Preparation of Fibrous Potassium Titanate Crystals	218
T. Endo, H. Nagayama, T. Sato, and M. Shimada	

Section II. Vapor Synthesis of Ceramic Powders

Aerosol Routes for Powder Synthesis	229
R.C. Flagan	
Models for Synthesis of Ceramic Powders by Vapor Phase Reactions	244
J.H. Flint and J.S. Haggerty	
Synthesis of Non-Agglomerated Si_3N_4 Powder	253
M. Aoki, J.H. Flint, and J.S. Haggerty	
Plasma Synthesis and Sintering Behavior of Silicon Nitride Powders	261
O. Schulz, D. Kandziora, and H. Hausner	
In-Situ Preparation of SiC Whiskers in Si_3N_4 Powder	269
S. Yamada, S. Kimura, E. Yasuda, Y. Tanabe, and H. Yoneda	

Preparation of SiC-Si₃N₄ Composite Particles by Plasma Gas Phase Reaction	277
J. Hojo, M. Nakamine, and A. Kato	
Synthesis and Sintering of Boron Doped SiC Powders by Plasma Arc Method	285
J. Kondo and G. Saiki	
Synthesis of Aluminum Nitride in a Thermal Plasma	293
A. Shah and K. Etemadi	
Synthesis of Zirconia Powders in an RF Plasma by Injection of Inorganic Liquid Precursors	298
Y.C. Lau, P.C. Kong, and E. Pfender	
IEA/Annex II Powder Characterization Cooperative Program	304
T.M. Resatar, G.E. Schaefer, J.W. McCauley, A.L. Dragoo, S.M. Hsu, D.R. Johnson, H. Hausner, and R. Pompe	
Submicron Silicon Carbide Powder Characterization	313
W.P. Binnie, M. Srinivasan, K.R. Selkregg, and T.W. Young	
Quantitative Determination of Amorphous Content in Ceramic Materials Using X-Ray Powder Diffraction	321
M.A. Kuchinski, C.R. Hubbard, L.A. Johnson, and V.A. Greenhut	

Section III. Ceramic Powder Dispersion, Modification, and Processing Additives

Adsorption of Processing Additives and the Dispersion of Ceramic Powders	333
D.W. Fuerstenau, R. Herrera-Urbina, and J.S. Hanson	
Characterizing the Hydrous Oxide/Aqueous Solution Interface: Applications to Ceramics	352
M.A. Anderson, W.A. Zeltner, and M.I. Tejedor-Tejedor	
Selective Flocculation Method for Purification of Ceramic Powders	372
B.M. Moudgil, T.V. Vasudevan, and A. McCombs	
Dispersion of Ceramic Particles in Polymer Melts	380
J.-H. Dow, M.D. Sacks, and A.V. Shenoy	

Stability of Alumina and Titania Slips in Presence of Surface Active Agents	389
A. Srinivasa Rao	
Effect of Poly(vinyl Alcohol) on the Properties of Model Silica Suspensions	397
C.S. Khadilkar and M.D. Sacks	
Component Separation in Al_2O_3-ZnO Dispersions	410
N. Kaneko, W.E. Rhine, and H.K. Bowen	
Suspension Properties of Alumina in Lapping Slurries	418
A. Srinivasa Rao	
Stability of Aqueous Alumina/Binder Sol System	426
T.Y. Tseng, Y.Y. Kuo, and Y.L. Lin	
Surface Chemistry Effects in Concentrated Aqueous Dispersions of Bayer Process Calcined Aluminas	433
J.F. Kelso and T.A. Ferrazzoli	
Suspension Processing of SiC Whisker-Reinforced Ceramic Composites	440
M.D. Sacks, H.W. Lee, and O.E. Rojas	
Dispersion and Pressureless Sintering of Al_2O_3-SiC Whisker Composites	452
T. Ishii and H.K. Bowen	
Alpha Silicon Carbide Sintering Powder by Milling Process and Wet-Chemical Purification	460
P. Matje and K.A. Schwetz	
The Effect of Moisture on the Surface Chemistry and Dispersion Properties of Silicon Nitride in Imidazoline-Hexane Solutions	469
K.J. Nilsen, R.E. Riman, and S.C. Danforth	
Dispersion of Silicon Nitride Powders in Aqueous Medium	477
R. de Jong and R.A. McCauley	
Surface Chemistry Effects on Ceramic Processing of BaTiO_3 Powder	485
D.A. Anderson, J.H. Adair, D. Miller, J.V. Biggers, and T.R. Shrout	
Dissolution of Barium Titanate in Nonaqueous Solvents	493
D.V. Miller, J.H. Adair, and R.E. Newnham	

Chemical Modification of the Orthorhombic Superconductor Ba₂YCu₃O_{7-δ}	501
C.P. Ostertag, F. Beech, and E.R. Fuller, Jr.	
Electrokinetic Behavior of Oxide Components in Y(La)-Ba-Cu-O Systems	511
Y.H. Chia	
Enhanced Processing of Perovskite Pb(Mg_{1/3}Nb_{2/3})O₃ Relaxors through Understanding the Surface Chemistry of the Component Powders	519
T.R. Shrout, B. Jones, J.V. Biggers, and J.H. Adair	
Organic Binder Removal Processes in Closed Pore Organic- Powder Compacts	528
D.W. Sproson and G.L. Messing	
Pyrolysis Behavior of Acrylic Polymers and Acrylic Polymer/Ceramic Mixtures	538
Y.-N. Sun, M.D. Sacks, and J.W. Williams	
Pyrolysis of Poly(vinyl Butyral) Binders: I, Degradation Mechanisms	549
W.-K. Shih, M.D. Sacks, G.W. Scheiffele, Y.-N. Sun, and J.W. Williams	
Pyrolysis of Poly(vinyl Butyral) Binders: II, Effects of Processing Variables	559
G.W. Scheiffele and M.D. Sacks	
Firing-Atmosphere Effects on Char Content from Alumina- Polyvinyl Butyral Films	567
M.J. Cima and J.A. Lewis	
Removal of Organic Binders in Ceramic Powder Compacts	575
M.R. Barone, J.C. Ulicny, R.R. Hengst, and J.P. Pollinger	
Index	585

Part B

Section IV. Ceramic Powder Forming Processes

Critical Issues and Future Directions in Powder Forming Processes	601
J.S. Reed	
Dilatancy and Plasticity in Ceramic Particulate Bodies	611
G.Y. Onoda, E.G. Liniger, and M.A. Janney	
Ceramic Extrusion Mechanics: The Effects of Paste Formulation and Liquid Phase Rheology on Die-Flow Resistance	624
J.J. Benbow, S.H. Jazayeri, and J. Bridgwater	
Effect of Powder Characteristics on Compounding and Green Microstructure in the Injection Molding Process	635
V.K. Pujari	
Production of Alumina-Zirconia Composite Ceramics by Nonsolvent Flocculation of Polymer-Containing Powder Dispersions	645
W.C. Moffatt, P. White, and H.K. Bowen	
Lubricating Polymers for Powder Compaction	654
T.K. Yin, I.A. Aksay, and B.E. Eichinger	
Principles of Ceramic Shape-Forming with Powder Systems	663
I.A. Aksay	
Basic Requirements for Tape Casting of Ceramic Powders ...	675
A. Roosen	
Sedimentation of Lyophilic Colloidal Silica Spheres	693
K.E. Davis and W.B. Russel	
Preparation of Translucent SiO₂ Glass from Monosized Particles	701
Y. Oguri and E. Hattori	

Packing of Bimodal Mixtures of Colloidal Silica	709
F.G.R. Gauthier and S.C. Danforth	
Effect of Ultrasonic Energy on Sedimentation and Low Pressure Filtration Behavior of Aqueous Silica Dispersions	716
A. Srinivasa Rao and S.C. Danforth	
The Effect of Ultrasonic Treatments on the Particle Size Distribution and Microstructure of a Slipcast Al_2O_3	724
C.R. Blanchard-Ardid and R.A. Page	
Packing Density of Alumina Blends for Substrates Evaluated from Pressure Filtered-Pressed Compacts	733
D.V. Miller and J.S. Reed	
Wet Chemical Forming and Characterization of Alpha-Alumina Ceramics	741
H. Nienburg, P. Stein, and F. Harbach	
The Clogging Effects in Slip Casting	749
J.H.D. Hampton, S.B. Savage, and R.A.L. Drew	
The Characterization of Friction in Ceramic Powder Processing	758
B.J. Briscoe and P.D. Evans	
The Effect of Granule Size on Green Strength Distributions of Dry-Pressed Alumina Compacts	767
B.D. Mosser III, J.S. Reed, and J.R. Varner	
Compaction of Powders. VI. Silica Gel	776
I. Shapiro	
Fabrication of Multiphase Particulate Ceramics by Infiltration into Powder Compacts	784
S.J. Glass and D.J. Green	
Characterization of Commercial Silicon Carbide Powders and Green Bodies	792
M. Srinivasan, W.P. Binnie, W.D. Friedman, R.A. Youngman, and W.M. Sherman	
Gamma-Ray Attenuation Analysis of Packing Structure Evolution During Powder Consolidation	800
C.H. Schilling and I.A. Aksay	

Section V. Sintering

Critical Issues and Future Directions in Sintering Science . . .	811
R.J. Brook, W.H. Tuan, and L.A. Xue	
Science of Sintering as Related to Ceramic Powder Processing	824
M.P. Harmer	
Effects of Foreign Oxides on the Grain Growth and Densification of Sintered Al_2O_3	840
S. Sumita and H.K. Bowen	
Sintering of Titanium Oxynitride Powder	848
D. Shibuta, Y. Sakai, and M. Yoshizumi	
Sintering of Silicon Carbide Prepared from a Polymeric Precursor	856
B.A. Bishop, M.S. Spotz, W.E. Rhine, H.K. Bowen, and J.R. Fox	
Green Density Characteristics and Densification Kinetics of PSZ Powders Produced by Electrorefining	864
S. Blackburn, M.P. Hitchiner, and C.R. Kerridge	
Sintering of Composites: A Critique of the Available Analyses	872
R.K. Bordia and G.W. Scherer	
Effect of Rigid Inclusions on Sintering	887
M.N. Rahaman and L.C. De Jonghe	
Agglomerate Size Effect on Sintering of Doped Lanthanum Chromite	897
V.L. Richards	
Fabrication of ZrC_xO_y and $\text{ZrC}_x\text{O}_y\text{-ZrO}_2$ Composite Ceramics	904
P. Barnier and F. Thevenot	
The Influence of Thermal Cycling on Densification: Further Tests of a Theory	911
D. Beruto, R. Botter, and A.W. Searcy	
Microwave Sintering of Alumina at 28 GHz	919
M.A. Janney and H.D. Kimrey	

Ultrafine Microstructure of Al_2O_3 Produced by Microwave Sintering	925
Y.L. Tian, D.L. Johnson, and M.E. Brodwin	
Microwave Sintering of Al_2O_3-TiC Composites	933
Y.L. Tian, D.L. Johnson, and M.E. Brodwin	
Sintering of Fully Stabilized Zirconia Powders in RF Plasmas	939
P.C. Kong, Y.C. Lau, E. Pfender, K. McHenry, W. Wallenhorst, and B. Koepke	
Progress in Hot Pressing: Transitory Phenomena During Temperature Changes	947
C. Brodhag and F. Thevenot	
Sintering and HIP with a Liquid Phase	955
W.A. Kaysser	
Sintering Glass-Filled Ceramic Composites: Effects of Glass Properties	969
K.G. Ewsuk, L.W. Harrison, and F.J. Walczak	
Microstructural Control of Al_2O_3-TiO_2 Composites by Cyclic Annealing	978
S. Kamiya and H.K. Bowen	

Section VI. Ceramic Property and Powder Processing Relations

New Opportunities in the Processing of High Reliability Structural Ceramics	989
A.G. Evans	
Tough Strong Ceramics from Ce-PSZ Powders	1011
S. Blackburn, C.R. Kerridge, and P.G. Senhenn	
Sintering Additive Chemistry in Controlling Microstructure and Properties of Nitride Ceramics	1019
M.H. Lewis, G. Leng-Ward, and C. Jasper	
Fracture Toughness and Microstructure Evaluation of Silicon Nitride Ceramics	1034
Y. Tajima, K. Urashima, M. Watanabe, and Y. Matsuo	

Characteristics and Processability of Gas Phase Synthesized and Direct Nitridation Si₃N₄ Powders	1042
W.M. Shen and R.V. Sara	
Controlled Processing of Beta' SiALONs Containing Y₂O₃ Additions	1051
M.D. Pugh, L. Zarnon, and R.A.L. Drew	
Processing and Properties of Reaction Bonded Silicon Nitride and Sintered Silicon Carbide made from Laser Synthesized Powders	1059
J.S. Haggerty, G.J. Garvey, J.H. Flint, B.W. Sheldon, M. Aoki, M. Okuyama, J.E. Ritter, and S.V. Nair	
Approach to Reliable Powder Processing	1069
F.F. Lange	
Comparison of Milling Methods for Reactive Aluminas	1084
C. Brayman and R.A.L. Drew	
Processing of Zirconia and Alumina Composites	1092
A. Srinivasa Rao and W.R. Cannon	
Aluminum Titanate Powders—Characteristics and Possible Applications	1100
G. Rehfeld, Th. Staudt, and C. Zografou	
Preparation and Characterization of Mullite Containing Materials	1108
M.G.M.U. Ismail, Z. Nakai, H. Ohira, and S. Somiya	
Processing of Nanophase Ceramics	1115
H. Hahn, J.A. Eastman, and R.W. Siegel	
Reaction Chemistry in the System PbO-MgO-Nb₂O₅-TiO₂ and Its Relevance to the Processing of Pb(Mg_{.33}Nb_{.67})O₃ Based Ceramics	1123
J.P. Guha and H.U. Anderson	
Processing-Property Analysis of Semiconducting PTCR Honeycombs Fabricated by Two Different Techniques	1130
A. Amin, V.N. Shukla, and M.B. Holmes	
Preparation and Properties of High Q Microwave Dielectrics in the (Ca,Sr,Ba) Zirconate System	1137
B.P. Borglum and R.C. Buchanan	

Densification, Susceptibility, and Microstructure of $\text{Ba}_2\text{YCu}_3\text{O}_{6+x}$	1146
J.E. Blendell and L.C. Stearns	
Square Loop $\text{Ba}(\text{Ti},\text{Zr})\text{O}_3$ Capacitors Based on Alkoxide Derived $(\text{Ti},\text{Zr})\text{O}_2$ Powders	1156
R. McSweeney, K. Zuk, and D. Williamson	
Al_2O_3 Impurities, Microstructure, and Dielectric Properties of BaTi_4O_9	1167
S.G. Mhaisalkar, W.E. Lee, and D.W. Readey	
Influence of Mixing Process Parameters on Sintered Properties of $\text{Ba}(\text{Ti},\text{Sn})\text{O}_3$ System	1175
N.N. Hebbare and A.N. Satyanarayan	
Applications of Double-Crystal Diffractometry to the Understanding of Ceramic Fracture	1183
W. Wong-Ng, S.W. Freiman, C.R. Hubbard, B.J. Hockey, S. Weissmann, and C.S. Lo	
Advances in X-Ray Line Profile Analysis to Determine Microstructure Information about Ceramics	1192
Y. Zhang, J.M. Stewart, C.R. Hubbard, and B. Morosin	
Index	1199