Books


Proceedings


Book Chapters


Journal articles


C. BARRY CARTER: GROUP PUBLICATIONS
July 26th, 2011


Johnson, M.T. and Carter, C.B., 1999, Phil. Mag. Lett. 79, 609-617, 'Movement of Pt Markers in MgO During a Solid-State Reaction.'


Kotula, P.G. and Carter, C.B., 1998, J. Am. Ceram. Soc. 81, 2877-84 'Kinetics of Thin-Film Reactions of NiO with Al2O3 II: \{100\} and \{102\} Reaction Couples.'

Kotula, P.G. and Carter, C.B., 1998, J. Am. Ceram. Soc. 81, 2869-76 'Kinetics of Thin-Film Reactions of NiO with Al2O3 I: (0001) and \{110\} Reaction Couples.'


Johnson M.T., and Carter, C.B., 1998 Microsc. Microanal. 4(2), 141-145 'Thin-Film Reaction Between \_Fe2O3 and (001) MgO'


J185 Ramamurthy, S., Mallamaci, M.P., Zimmerman, C.M., Carter, C.B., Duncombe, P.R. and Shaw, T.M., 1996, JMSA 2(3), 113-128. (reprinted in Microsc. Microanal. 3 suppl. 3) 'Microstructure of Polycrystalline MgO Penetrated by a Silicate Liquid.'


J182 Ramamurthy, S., Mallamaci, M.P. and Carter, C.B., 1996, Scripta Met. 34(11), 1179-1783. 'Initial Stages of Solid-Liquid Interactions in the MgO-CaMgSiO4 System.'


J177 Zhu, J.G., Palmstrøm, C.J. and Carter, C.B., 1995, J. Appl. Phys. 77(9), 4312-4320. 'Study of Molecular-Beam Epitactic Growth of GaAs on (100) SxEr1-x As/GaAs.'


De Cooman, B.C. and Carter, C.B., 1988, phys. stat. sol. (a)
Chen, S.H., Carter, C.B. and Palmstrøm, C.J.
Rasmussen, D.R.
Rasmussen, D.R., Cho, N.
J094 De Cooman, B.C. and Carter, C.B., 1989, Philos. Mag. A60(2), 245-266. 'Dislocation Configurations in Semi-Insulating, n-type and p-type GaAs Deformed at 150°C.'
J083 Veyssière, P. and Carter, C.B., 1988, Phil. Mag. Lett. 57(4), 211-220. 'Dissociation of Dislocations in MgAl₂O₄ Spinel Deformed at Low Temperatures.'
J080 De Cooman, B.C. and Carter, C.B., 1988, phys. stat. sol. (a) 112, 41-54. 'The Formation of Faulted Dipoles in Plastically Deformed GaAs.'


J046 Kuesters, K.-H., De Cooman, B.C. and Carter, C.B., 1985, J. App. Phys. 58(11), 4065-4073. 'Dislocation Motion in GaAs/Al1-xGa_xAs Structures.'


J043 De Cooman, B.C. and Carter, C.B., 1985, Phil. Mag. A51(2), 175-190. 'On the Point Group of Stoichiometric Spinel, MgO•Al2O3.'


J033 Carter, C.B., 1983, phys. stat. sol. (a) 80, 51-64. 'Multiple Ribbons in Face-Centered Cubic Materials: IV. The Interaction between Double Ribbons and Inclined Dislocations.'

J025 Carter, C.B., 1981, phys. stat. sol. (a) 63, 335-344. 'Multiple Ribbons in Face-Centered Cubic Materials III. Jogs on Double Ribbons.'
J020 Carter, C.B., 1980, phys. stat. sol. (a) 62, 139-147. 'Multiple Ribbons in Face-Centered Cubic Materials II. The Formation of Double and Multiple Ribbons.'

J004 Carter, C.B., 1977, Philos. Mag. 35(1), 75-79. 'The Operation of a Dislocation Glide Source.'


Conference Proceedings

C423


doi:10.1017/S1431927610060150


C332 Yanina, S.V. and Carter, C.B., 2000, Microsc. Microanal., 6 Suppl. 2, 714-5, 'Evaporation Spirals on {111} and {001} surfaces of MgAl2O4 Spinel'.


C324 Ravishankar, N. and Carter, C.B., 1999, Revista Latinoamerianca de Metalurgia y Materiales 19 7-12, CIASEM, Venezuela 24-28 October 99, 'Application of SEM to the Study of Ceramic Surfaces'.


Ramamurthy, S., Hebert, B.C. and Carter, C.B., 1995, 53rd Annual Meeting MSA, Kansas City, 342-343, 'Olivine-MgO Interfaces Produced by Crystallization of Glass Films on Single-Crystal MgO Substrates.'


Erickson, D.D., Kotula, P.G. and Carter, C.B., 1994, 52nd Annual Meeting MSA, New Orleans, 528-529. 'Pulsed-laser Deposition Growth of Copper Oxide on _Al2O3 and MgO.'


Carter, C.B., 1993, International Conference on Intergranular and Interphase Boundaries, Thessaloniki, Greece 126-8, 555. 'Interfaces and the Growth of Thin Oxide Films.'


C180 Zhu, J.G., Carter, C.B. and Palmstrøm, C.J., 1991, 49th Annual Meeting EMSA, San Jose, 848-849. 'A Study of GaAs/Sc0.3Er0.7As/GaAs Heterostructures Grown on Novel GaAs Substrate Orientations.'


C144 Norton, M.G., and Carter, C.B., 1990, ICEM 12, Seattle, 570-571. 'TEM Study of Buried Yttrium Silicide Formed by Ion Implantation.'


Carter, C.B., 1986, ICEM 11, Kyoto, 147-150. 'Interfaces in Ceramics.'


C022 Morrissey, K.J. and Carter, C.B., 1982, ICEM 10, Hamburg, 343-344. 'Faceted Twin Boundaries in Al2O3.'


Carter, C.B. and Hirsch, P.B., 1976, 4th Int. Conf. on the Strength of Metals and Alloys 1, 70-74. 'Formation, Structure, and Movement of Jogs in Copper Alloys.'

Carter, C.B. and Holmes, S.M., 1975, EMAG 75, 413-416. 'Weak-Beam Images of Faulted Dipoles in Face-Centered Cubic Metals.'

Other publications by researchers while in our group

(Where CBC advised the student but did not participate in the research to a significant extent.)

Marquis, E.A., Riesterer, J.L., Seidman D.N. and Larson, D.J., 2006, ICM-16 Saporro, Japan 'Mg segregation at coherent and semi-coherent Al/Al3Sc interfaces'

Marquis, E.A., Riesterer, J.L., Seidman D.N. and Larson, D.J., 2006, Microsc. Microanal. 12, 'Mg segregation at coherent and semi-coherent Al/Al3Sc interfaces'


King, W.E., Campbell, G.H., Foiles, S.M., Cohen, D. and Hanson, K.M. 1997, J. Microscopy. 190 131-143 'Quantitative HREM Observation of the $\Sigma \!

McKernan, S., 1995 Microbeam Analysis Society Meeting, Denver, CO. 'Imaging Ceramics in the Environmental Scanning Electron Microscope.'


G024 Xu, M., Polonka, J., Goldman, A.I., Finnemore, D.K. and McKernan, S., 1993, Applied Superconductivity 1 (10-12), 1547-1554. 'Growth of Precipitates in Bi2Sr2Ca1Cu2O8.'


G020 Kotula, P.G., 1994, MSA 52nd Annual Meeting, New Orleans, 520-521. 'A New Approach to the Study of Solid-State Reactions in Oxide Ceramics.'


G012 Susnitzky, D.W., 1988, Cornell Engineer. 'Transmission Electron Microscopy of Ceramics.'

G011 Bour, D.P., Shealy, J.R. and McKernan, S., 1987, J. Appl. Phys. 63 (4), 1241-1243. 'Ga0.5In0.5P/GaAs Interfaces by Organometallic Vapor Phase Epitaxy.'

G010 McKernan, S., 1987, 45th Annual Meeting EMSA, 102-103. 'Image Processing of Non-Periodic Electron Micrographs.'

G009 McKernan, S., 1987, 45th Annual Meeting EMSA, 44-45. 'Applications of WACBED to Superlattice Structures in Compound Semiconductors.'


G003 Chen, S.-H., 1985, 43rd Annual Meeting EMSA, 368-369. 'Near-Surface Segregation of Sn in Heavily Sn-Doped GaAs Films Grown by Molecular-Beam Epitaxy.'
G001 Morrissey, K.J., 1984, 42nd Annual Meeting EMSA, 404-405. 'TEM Observations on Pores in Alumina.'

**Theses supervised**

T028 Kumar, S, September 2005, MS Thesis, (U of MN), 'Defects in Polycrystalline GaN'


T003 Elgat, Z., 1985, Ph.D. Thesis, (Cornell U.), 'Structure of Twin Boundaries in Ge and Spinel.'


Invited talks (1990-) (including most given; not including declined invitations)

136 ‘TEM Past, Present and Future’. EMSI50 50th Anniversary meeting of EMSI (July 6-8, Hyderabad, India) 2011.


133 ‘Interfaces and Small Particles’ MSE Dept seminar, University of Maryland. 23 Apr 2010, College Park MD 'Invited Talk' iib2010, NagJune- 1.


131 'Interfaces in Ceramics: Challenges for Microscopy' University of Graz. 29 Jan 2010 Graz, Austria 'Invited Talk' iib2010, NagJune- 1.

130 'Interfaces and Small Particles' University of Leoben. 28 Jan 2010 Leoben, Austria 'Invited Talk' iib2010, NagJune- 1.


128 'Interfaces and Small Particles' RPI, Troy NY 21 October 2009. Department Seminar.


95 'The Behavior of Glass in Ceramic Materials' Brazilian MRS, Foz de Iguaçu, October 11, 2004
94 'Microscopy of Ceramics' Chalmers University of Technology, Göteborg University, Department of Experimental Physics, September 24, 2004
93 'Microscopy of Interfaces' Joint Metallurgy and Materials Research Center Dept Seminar, IISc, Bangalore, March 19, 2004
92 'Nanoparticles' Materials for the Future Symposium celebrating 25 Years of the Materials Research Center, MRC, IISc, Bangalore, March 16, 2004
91 'Liquids and Ceramic Interfaces' Department of Materials Science, University of Tokyo, Japan, March 5, 2004
89 'TEM Studies of Interfaces in III-V Compounds' symposium H1 to be presented at the 204th Meeting of the Electrochemical Society, Orlando, Florida, October 12-17, 2003
88 'Interfaces in Oxides' symposium L1 to be presented at the 204th Meeting of the Electrochemical Society, Orlando, Florida, October 12-17, 2003
87 'Analysis of Thin Ceramic Films' to be presented at Scanning 2003
86 'Nanoscale Plasticity in Free Standing Spheres Less than 100 nm Diameter' to be presented at Plasticity 2003, July 7-11, 2003, Quebec City; to be published in Int. J. Plasticity
85 'Interface structure and characterization and/or (de)wetting behavior' Surfaces and Interfaces Symposium at the 105th Annual American Ceramic Society Meeting April 27-30, 2003 in Nashville, TN
81 'Semiconductors' IFW Dresden July, 2002
78 'Glass in and on Ceramic Oxides', Cal. Tech. MSE Department Seminar, 21 February, 2001
77 'Glass in and on Ceramic Oxides', Japan FCC Int Workshop, Nagoya, 15-17 March 2000
76 'Glass in and on Ceramic Oxides', Portland State University. MSE Department Seminar, 1 November, 2000
75 'Glass in and on Ceramic Oxides', Virginia Tech. MSE Department Seminar, 6 April, 2000
74 'Interfases in Ceramics', IFW Dresden July, 2002
72 'Mechanism of Glass-Crystal Boundary Migration in Ceramics' with N. Ravishankar, 2 May 2000, Annual meeting, American Ceramic Society, St Louis MI, 2000 (BS5-002-00)
71 'Semiconductors', IFW Dresden July, 2002
70 'Semiconductors', U. of Jena, Germany, July 2002
69 'Surfaces and Grain Boundaries in Ceramics', At CIASEM-VI October 2001.
68 'Ceramic Surfaces, Grain Boundaries and Crystalline Interphases', AIMS Annual Spring Meeting, Tucson AZ, 10 February 2000
67 'Ceramic Surfaces, Interfaces and Wetting', Georgia Tech., Ann Arbor, 16 November 1999
Some Fundamental Aspects of Liquid-phase Sintering. Presented by Dr Ravishankar, Fall Meeting, American Ceramic Society, Seattle WA, 28 October, 1999

'SEM of Ceramic Surfaces', CIASEM, IntraAmerica Society for Electron Microscopy, Caracas, Venezuela, 26 October 1999

'Ceramic Surfaces, Interfaces and Wetting', University of Michigan, Ann Arbor, 15 October 1999

'Glass in and on Ceramic Oxides', Department of Energy, 28 September 1999


'Reactions in and on Oxide Thin Films', University of Wisconsin, 11 May 1999

'Faceting of Oxide Surfaces and Thin-Film Growth', Clemson University, 12 April, 1999

'Ceramic Surfaces', Spring Meeting, American Ceramic Society, 27 April, 1999

'Reactions in and on Oxide Thin Films', Cambridge Univ., UK, 19 March, 1999

'Glass Films in and on Oxides', Lawrence Berkeley National Lab, 14 Dec. 1998

'Interfaces in Ceramics', Acta Materialia Topical Conference, La Jolla, Ca., 26 Oct. 1998

'Glass Films in and on Oxides', Fall Meeting, American Ceramic Society, 22 Oct. 1998


'Glass Films in and on Oxides', PPG, Pittsburgh, 5 Oct. 1998


'Reactions in and on Oxides', University of Hannover, Department Seminar, 7 July 1998

'A New Method to Study Solid-State Reactions', University of Köln, Department Seminar, 1 July 1998

'Oxide Thin Films and Reactions', University of Erlangen, Department Seminar, 5 June 1998

'Oxide Thin Films and Surfaces' University of Karlsruhe, Laboratorium für Elektronenmikroskopie, Department Seminar, 18 May 1998

'A New Method to Study Solid-State Reactions in Oxides', Bayerisches Geoinstitut, Universitaet Bayreuth, Department Seminar, 27 April 1998

'Dislocations in Ceramic Oxides' MSA Microscopy and Microanalysis Meeting, Symposium on Ceramics and Minerals 12-16 July 1998, Atlanta

'Microscopy of Ceramic Surfaces', Spring Meeting of the Alabama Microscopy and Imaging Society, Feb 1998

'Faceting of Oxide Surfaces and Thin-Film Growth', Fall MRS, invited talk 2 Dec 1997


'Reactions and Phase Transformations in Thin Oxide Films,' 23 June 1997, Department of Materials, University of Leeds, UK.

'Electron and Scanning Probe Microscopy of Glass/Ceramic Interfaces,' 4 August 1997, Ceramics Gordon Research Conference on New Perspectives in Interface Science, Kimball Union, NH.


'Oxide Thin Films: Substrates, Growth and Reactions,' 28 April 1997, MS&E, Arizona State University Department Seminar, Tempe, AZ.

'Phase Contrast in the TEM,' 18 April 1997, MS&E, North Carolina State University Guest Lecture, Raleigh, NC.

'Oxide Thin Films: Substrates, Growth and Reactions,' 18 April 1997, MS&E, North Carolina State University Department Seminar, Raleigh, NC.

34 'AFM as a Complement to SEM and TEM in Materials Science,' 27 October 1996, 15th NCSEM Annual Symposium on Advances in Microscopy, Wilmington, North Carolina.
30 'AFM as a Complement to SEM and TEM in Materials Science,' 23 May 1996, Microscopy Society of Northeastern Ohio Spring Symposium, Case Western Reserve University, Cleveland, OH.
28 'Reactions and Phase Transformations in Thin Oxide Films,' 11 April 1995, Case Western Reserve University, Cleveland, OH.
27 'Growth and Reactions in Oxide Thin Films,' 12 March 1995, University of California-Santa Barbara, Santa Barbara, CA.
26 'Reacting NiO and Al2O3,' 31 October 1994, Hannover, Germany.
24 'The Role of Defects During Growth and Reactions in Oxides,' 27 October 1994, Lausanne, Switzerland.
23 'Interfaces in Ceramics,' 13 July 1994, Max Planck Institut for Mikrostrukturphysik, Halle, Germany.
22 'Thin Ceramic Films: Growth and Reactions,' 1 November 1993, Departmental Colloquium, Department of Materials Science, University of Illinois, Urbana, IL.
20 'Structure of Grain Boundaries in Polycrystalline Semiconductors,' 8 September 1993, Int. Conf. on Polycrystalline Semiconductors, St Malo, France.
18 'Growth of Thin Ceramic Films,' April 1992, 3M Special Symposium on Inorganic Materials, St. Paul, MN.
17 'Interfaces in Ceramic Materials,' May 1993, Department of Materials Science, University of Wisconsin, Madison, WI.
16 'Interfaces in Ceramic Materials,' 1 May 1993, NIST Ceramics Group Seminar, Gaithersburg, MD.
15 'High-Resolution TEM of Ceramics,' August 1992, EMSA Symposium on High-Resolution TEM (Prof. David J. Smith, Organizer), Boston, MA.
14 'Interfaces and the Growth of Thin Oxide Films,' 21 June 1992, International Conference on Intergranular and Interphase Boundaries, Thessaloniki, Greece.
13 'Growth of Thin Ceramic Films,' April 1992, 3M Special Symposium on Inorganic Materials, St. Paul, MN.
12 'Thin Ceramic Films: Growth and Reactions,' March 1992, Texas Instruments, Dallas, TX.
11 'High-Resolution Microscopy Center,' 31 March 1992, Minnesota EM Soc., Minneapolis, MN.
9 'Interfaces Growth and Reactions in Ceramic Oxides,' November 1991, Departmental Seminar, Purdue University, Lafayette, IN.
8 'Interfaces in Ceramics,' November 1991, MRS Fall Meeting, Boston, MA.
7 'Interfaces in Ceramic Thin Films,' 31 May 1991, Am. Ceram. Soc., Northern Ohio Section, 1991 Distinguished Speaker Award, Cleveland, OH.
4 'New Approaches for Studying Interfaces in Oxides,' 4 December 1990, U. Minnesota, MN.
3. 'The Nucleation and Growth of Thin Oxide Films,' 7 November 1990, Sandia National Labs, Albuquerque, NM.
2. 'Heterojunctions in Semiconductors,' 5 November 1990, Arizona State University, AZ.
1. 'Recent Applications of TEM to the Study of Interfaces,' August 1990, 12th Int. Cong. on EM, Seattle, WA.

Other conference activities (1990-) (some)
34. International Advisory Committee, EMSI50 (July 6-8, Hyderabad, India) 2011.
27. Session Chair, IMC-16 2006 ' Ceramics' Sapporo, Japan, 4 Sept. 2006.
23. Chair, Ceramics Gordon Conference, 10-14 July 2004
20. Vice Chair, Ceramics Gordon Conference, 11-16 July 2002
5. Symposium Organizer and Session Chairman 'Microscopy of Interfaces,' 50th Annual Meeting EMSA, Boston, August 1992.
2. Symposium Organizer and Session Chairman 'Fine Structure of Defects,' ICEM 12, Seattle Washington, August 1990

Unpublished conference talks 1995- (by year)

11.4 Paper to be presented at 20th National Electron Microscopy Congress (October 25-28, 2011, Antalya, Turkey)
    Carter, C.B., ‘TEM of Ceramic Materials; IFSM and Iznik’.
11.3 Papers to be presented at M&M 2011 (August 8-11, Nashville)
11.2 Paper presented at EMSI50 (July 6-8, Hyderabad, India)
11.1 Paper presented at E-MRS 2011 (May 9-12, Nice, France)
10.1 Papers presented at the 2010 ACerS Cocoa Beach Meeting in Daytona, FL, January 2008.
    Basu, J., Bhowmick, S., Carter C.B. and Singh, P., 'Interdiffusion in NiO-YSZ Composites'.

Norton, M.G. and Carter, C.B. 'Incorporating Nanomaterials into a new Ceramics Textbook'.


Riesterer, J.L. and Carter, C.B., 'Phase-boundary Grooving at the Surface in SOFC Materials'.

Basu, J., Ravishankar, N. and Carter, C.B., 'Patternning Arrays of Nanoparticles'


08.4 Papers presented at the 2008 Fall Materials Research Society meeting in Boston

Winterstein, J.P. and Carter, C.B. (Symposium TT: Local Structure and Dynamics in Amorphous Systems) 'Electron-beam induced crystallization of lanthanum oxide'

Winterstein, J.P. and Carter, C.B. (Symposium NN: In Situ Studies across Spatial and Temporal Scales for Nanoscience & Technology) 'In situ reduction of doped cerium oxide nanoparticles in the TEM'.


08.3 Papers presented at the 2008 Microscopy Society of America Meeting, Albuquerque NM, 4-8 August 2008


08.2 Paper presented at the 1st Int. Workshop on Advanced Microscopy and Theoretical Calculations for Nanotechnology and Environmental Materials in Nagoya, Congress Center, Japan 28-30 June 2008. 'Interface Formation. Invited Talk with Julia Nowak.'

08.1 Papers presented at the 2008 ACerS Cocoa Beach Meeting in Daytona, FL, January 27-February 1, 2008.


07.8 Papers presented at the 2007 Fall Materials Research Society meeting in Boston

Norton, M.G. and Carter, C.B., 2007, Fall MRS, Boston, MA, 'Incorporating Nanomaterials into a new ceramics textbook'.


07.5 Paper presented at the 9th CIASEM meeting (9th InterAmerican Congress on Electron Microscopy) in Cuzco, Peru 23-28 Sept 2007.

07.4 Papers presented at the 2007 Microscopy Society of America Meeting in Fort Lauderdale, FL, 5-9 August 2007

07.3 Papers presented at the 2007 International Symposium on the Reactivity of Solids Meeting in Minneapolis, MN 3-6 June 2007
Basu, J., Ramachandran, D., Riesterer, J.L., Deneen Nowak, J., Winterstein J. and Carter, C.B., 'In Situ TEM Study of solid state reaction of ZnO nanorods on Sapphire'.


07.1 Papers presented at the 2007 Microscopy of Semiconducting Materials Meeting in Cambridge, UK

06.6 Invited Paper presented at the 2006 Brazilian Materials Research Society Meeting in Florianopolis, Brazil, October 2006
Carter, C.B., 'Use of In Situ TEM to Study Nanomaterials' Brazilian MRS 2006 Florianopolis, Brazil, Oct. 2006

06.5 Paper presented at the 2006 IMC-16 Meeting in Sapporo, Japan, 3-8 Sept. 2006.


06.4 Papers presented at the 2006 Materials Science & Technology Meeting in Cincinnati, OH
Riesterer J.L. and Carter C.B., 2006 'Grain Boundary Migration and Grain Growth in __Al2O3'
Riesterer J.L., Marquis, E.M. and Carter C.B., 2006 'Atom-Probe Tomography of Induced Composition Variations in Cu Alloys'


06.3 Papers presented at the 2006 Spring MRS Meeting in San Francisco


06.2 Papers presented at the 2006 Spring APS Meeting in San Antonio

Bolon, B., Haugen, M.A., Abin-Fuentes, A., Deneen, J., Carter, C.B. and Leighton, C., 2006 'Using multiple antiferromagnet/ferromagnet interfaces as a probe of grain size dependent exchange bias in polycrystalline Co/Fe50Mn50'

06.1 Papers presented at the 2006 Spring TMS Meeting in San Antonio


05.7 Paper presented at the 2005 XLth meeting of the Portuguese Society of Electron Microscopy and Cell Biology, 8-10 December 2005

05.6 Papers presented at the 2005 Fall Materials Research Society meeting in Boston


05.5 Papers presented at the AVS 52nd International Symposium, October 30-November 4, 2005, Boston MA

Bartelt, N.C., Ling, W.L., McCarty, K.F. and Carter, C.B., 2005, 'Twin Boundaries can be Moved by Step Edges During Film Growth'. TF+EM-WeM3


05.3 Paper presented at the EuroConference on Interfaces on Nanostructured Materials, June 2005, Kloster Irsee, Germany


05.2 Papers presented at the Spring meeting APS, April 16-19, 2005 Tampa, FL


05.1 Paper presented at the 106th Annual meeting ACerS, April 18-21, 2004 Indianapolis, IN


04.1 Papers presented at ULIS 2004 (Ultimate Integration of Silicon), March 11-12, 2004 Leuven, Belgium


03.11 Papers presented at the 2003 Fall Materials Research Society meeting in Boston


03.09 Papers presented at the 204th Meeting of the Electrochemical Society, Orlando, Florida, Oct. 12-17 2003

Carter, C.B., 'Interfaces in Oxides' Symp. L1

Carter, C.B., 'TEM Studies of Interfaces in III-V Compounds' Symp. H1

03.08 Papers presented at the 16th International Symposium on Plasma Chemistry, Taormina, Italy. June 22-29, 2003


03.07 Papers presented at the 2003 conference of the American Association for Aerosol Research (AAAR)


03.06 Invited paper presented at the 2003 Spring Scanning meeting in San Diego


03.05 Invited paper presented at the 2003 IUMRS meeting in Singapore (meeting cancelled: SARS)

Gilliss, S.R. Ravishankar, and Carter, C.B., 'Interfaces between glasses and Crystalline Oxides.'


03.03 Invited papers presented at the 2003 Spring TMS meeting in San Diego: The Terry Mitchell Symp.


03.02 Papers presented at the 2003 Spring Materials Research Society meeting in San Francisco


03.01 Papers presented at the 2003 Annual meeting ACerS, Nashville TN

Carter, C.B., The Past and the Future of Ceramic Interface Studies (Invited)
Carter, C.B., Structures and Interfaces: Characterization of Interface Structure and Properties (Invited)

02.3 Papers presented at the 2002 Fall Materials Research Society meeting in Boston


02.1 Papers presented at the 2002 Annual meeting ACerS, St Louis, MO
Perrey, C.R., Carter, C.B., Kotula, P.G. and Michael J.R., 'TEM Investigation of Nanoparticles'
Perrey, C.R., Ravishankar, N. and Carter, C.B., 'TEM Study of Grain Boundary Migration in Ceramic Bicrystals'
Gilliss, S.R. Ravishankar, N. and Carter, C.B, 'Dewetting on Ceramic Surfaces' (2002 Snow Award)

01.3 Papers presented at the 2001 Fall Materials Research Society meeting in Boston
Ravishankar, N. and Carter, C.B., 2001, Symp. P5.29 'Motion of Sapphire Surface Steps'
Perrey, C.R., Ravishankar, N. and Carter, C.B., 'TEM Study of Grain Boundary Migration in Ceramic Bicrystals'

01.2 Papers presented at the 2001 Spring Materials Research Society meeting in San Francisco

01.1 Papers presented at the 2001 Annual meeting ACerS, Indianapolis

00.3 Papers presented at the 2000 Fall Materials Research Society meeting in Boston

00.2 Papers presented at the 2000 Annual meeting ACerS, St Louis
Carter, C.B. and Ravishankar, N., 'Mechanism of Glass-Crystal Boundary Migration in Ceramics'. (Invited)

00.1 Papers presented at the 2000 Spring Materials Research Society meeting in San Francisco
Ravishankar, N. and Carter, C.B., Symp. M2.8. 'Crystal-Liquid Boundaries in Liquid-Phase Sintered Ceramics'.

99.2 Papers presented at 1999 Fall Meeting ACerS, Pacific Coast Regional Meeting Washington State
Yanina, S.V. and Carter, C.B., 'Evaporation from Dislocation Sites on Spinel Surfaces'.

99.1 Papers presented at the 1999 Annual ACerS, Indianapolis
Carter, C.B. 1999 'Ceramic Surfaces', Spring Meeting, American Ceramic Society, 27 April, 1999

98.4 Papers presented at the 1998 Fall Materials Research Society meeting in Boston (unpublished)

98.3 Papers presented at 1998 Fall Meeting ACerS, Irvine

98.2 Papers presented at the 1998 Annual ACerS, Cincinnati
Kotula, P.G. and Carter, C.B., 1998 (100th Annual Meeting & Exposition, Cincinnati, May 3-6, 1998) 'Interfacial-Reaction Control of the Kinetics of Spinel Formation'

98.1 Papers presented at the 1998 Spring Materials Research Society meeting in San Francisco (unpublished)

97.4 Paper presented at the 1997 Fall Materials Research Society meeting in Boston (unpublished)

97.3 Papers presented at the 1997 Fall meeting of TMS, David A. Smith Symposium, Indianapolis, IN
M.T. Johnson, P.G. Kotula and C.B. Carter, 'The Effect of Interfaces in Solid-State Reaction Between Oxide.'

97.2 Papers presented at the 1997 Annual Meeting of the American Ceramic Society in Cincinnati

97.1 Papers presented at the 1997 Spring Materials Research Society meeting in San Francisco (unpublished)
Heffelfinger, J.R., Johnson, M.T. and Carter, C.B., 'The Effect of Surface Structure on the Initial Stages of Thin-Film Growth.' (Paper L11.8, 2 Apr. 97)
96.7 Papers presented at the 1996 Fall Materials Research Society meeting in Boston (unpublished)
Heffelfinger, J.R. and Carter, C.B., 'Faceting and Thin Film Growth on Ceramic Surfaces.'

96.6 Papers presented at the 1996 Spring Materials Research Society Symposium in San Francisco

96.5 Presented at the Reactivity of Solids Meeting, Hamburg, Germany, September 8-12, 1996
Johnson, M.T., Schmalzried, H. and Carter, C.B., 'Heterogeneous Solid-State Reactions Between MgO (001) and Iron Oxide.'
Johnson, M.T., Kotula, P.G. and Carter, C.B., 'Solid-State Reactions in Oxide Thin-Films.'

Johnson, M.T., Heffelfinger, J.R., Kotula, P.G. and Carter, C.B., 'Fundamental Processes in Thin-Film Reactions.'

96.3 Papers presented at the 1996 Conference on Composites, Advanced Ceramics, Materials and Structures (Cocoa Beach; American Ceramic Society)

96.2 Papers presented at the 1996 Annual Meeting of the American Ceramic Society in Indianapolis
Johnson, M.T., Schmalzried, H. and Carter, C.B., 'Electric Field Effects In Ceramic Thin-Film Reactions.' Basic Science Division: General Session Topics
Johnson, M.T., Bentley, J. and Carter, C.B., 'In-Situ Annealing of MgO.' Advanced Electron, Photon And Ion Beam Characterization Techniques Symposium: Electron Beam Techniques I

96.1 Paper presented at the 1996 TMS Annual Meeting in Anaheim, CA

95.3 Paper presented at the 1995 Pacific Coast Regional Meeting of the American Ceramic Society

95.2 Papers presented at the 1995 Fall Meeting of the Materials Research Society
Bentley, J., Johnson, M.T. and Carter, C.B., 'In-situ annealing of MgO', Paper presented at the 1995 Fall Meeting of the Materials Research Society, Boston, MA, November 27-December 1

95.1 Papers presented at the 1995 Annual Meeting of the American Ceramic Society