

ANDREAS M. GLAESER

DEPARTMENT OF MATERIALS SCIENCE AND ENGINEERING
UNIVERSITY OF CALIFORNIA
BERKELEY, CALIFORNIA 94720

☎: (510)-486-7262

FAX: (510)-643-5792

e-mail: aglaeser@sapphire.berkeley.edu

EDUCATION:

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

S. B., Materials Science and Engineering, (1976)

Thesis topic: Microstructure development during creep deformation of CaF₂

Sc. D., Materials Science and Engineering, (1981)

Thesis topic: Effects of dopant additions on grain boundary migration in lithium fluoride

EXPERIENCE:

1981-2016

Principal Investigator/Affiliated Scientist, Lawrence Berkeley Laboratory

1981-88

Assistant Professor of Ceramic Engineering
University of California, Berkeley

1988-1998

Associate Professor of Ceramic Engineering
University of California, Berkeley

1998-2013

Professor of Ceramic Engineering
University of California, Berkeley

1998-2013

Adjunct Professor
University of California, San Francisco
Department of Restorative Dentistry

2008-present

Visiting Professor
Fukuoka Institute of Technology, Fukuoka, Japan

2013-present

Professor Emeritus, University of California, Berkeley

FIELDS OF INTEREST:

Ceramic processing
Ceramic-ceramic and ceramic-metal joining
Microstructure development
Phase transformations
Thermodynamics
Grain boundary structure and properties
Surface and interfacial properties at elevated temperature

PROFESSIONAL AND HONORARY SOCIETIES:

AMERICAN CERAMIC SOCIETY

Coordinating Editor, 1984–1988
Contributing Editor, 1988–90
Program Chairman - Tutorial Lecture Series
Pacific Coast Regional Meeting - 1982, 1984, 1988
Secretary/Treasurer, Northern California Section, 1987
Vice Chairman, Northern California Section, 1988
Chairman, Northern California Section, 1989

NATIONAL INSTITUTE OF CERAMIC ENGINEERS (1994-97)

INTERNATIONAL COMMUNITY FOR COMPOSITES ENGINEERING (1994 to present)

EDITORIAL ADVISORY BOARD, *Diffusion and Defect Data* (1997 to present)

EDITORIAL BOARD MEMBER, *Journal of the Ceramic Society of Japan* (2005–2007)

EDITORIAL BOARD MEMBER, *High Temperature Materials and Processes*, (2010 to present)

EDITORIAL BOARD MEMBER, *Ceramics International*, (2010 to present)

AWARDS AND HONORS:

HERTZ FOUNDATION GRADUATE FELLOW (1976-81)

REGENT'S JUNIOR FACULTY FELLOWSHIP (1982)

ARCO JUNIOR FACULTY FELLOWSHIP (1982, 1983)

LECTURER, GORDON RESEARCH CONFERENCE ON SOLID STATE STUDIES IN CERAMICS:
1983, 1997

DOE MATERIALS SCIENCES AWARD COMPETITION

- 1987, 1988, 1989 Lawrence Berkeley Laboratory Nominee

- Outstanding Scientific Accomplishments in Metallurgy and Ceramics

AMERICAN CERAMIC SOCIETY CERAMOGRAPHIC COMPETITION

- 1987, Second Place, SEM Category

- 1988, Second Place, SEM Category

Second Place, Optical Microscopy

First Place, Student Poster Competition (*research supervisor*)

- 1993, First Place, SEM Category

Second and Third Place, Optical Microscopy

- 1994, Second Place, Optical Microscopy

- 1996, First Place, Combined Techniques

AWARDS AND HONORS (CONT.):

AMERICAN CERAMIC SOCIETY CERAMOGRAPHIC COMPETITION (*continued*)

- First Place, Problem Solving
- Third Place, Optical Microscopy
- 1999, First Place, Undergraduate Students (*research supervisor*)
- 2004, Roland B. Snow Award, Best of Show, 106th Annual Meeting of the American Ceramic Society
- First Place and Second Place, Optical Microscopy
- 2005, First Place and Second Place, Optical Microscopy
- 2006, First Place and Second Place, Scanning Probe Microscopy
- 2008, Roland B. Snow Award, Best of Show, 110th Annual Meeting of the American Ceramic Society
- First Place, Transmission Electron Microscopy

ALCOA FOUNDATION GRANT (1990)

MILLER RESEARCH PROFESSORSHIP (1991)

INTERNATIONAL ADVISORY COMMITTEE ON FUNCTIONALLY GRADIENT MATERIALS
(1991-2003)

FULRATH MEMORIAL AWARD (1993)

AUSTCERAM '94 CERAMOGRAPHIC COMPETITION

- 1994, First Place, Electron Microscopy

FELLOW, AMERICAN CERAMIC SOCIETY (1998)

RICHARD M. FULRATH AWARD (1999)

JAPAN SOCIETY FOR THE PROMOTION OF SCIENCE (JSPS) INVITATION FELLOWSHIP FOR RESEARCH IN JAPAN (2004, 2007, 2013)

DISTINGUISHED GUEST, ISTECH, FAENZA, ITALY, (2010, 2011)

TEACHING ACTIVITIES:

INTRODUCTION TO THE PROPERTIES OF MATERIALS

THERMODYNAMICS

ENGINEERING THERMODYNAMICS

APPLICATIONS OF CHEMICAL THERMODYNAMICS

PHASE EQUILIBRIA AND PHASE TRANSFORMATIONS

GLASS AND CRYSTALLINE CERAMICS

CERAMIC AND METAL POWDER PROCESSING

PHASE DIAGRAMS IN MATERIALS SCIENCE AND TECHNOLOGY

PUBLICATIONS:

1. A. M. GLAESER, "Microstructural Development in CaF₂," S. B. Thesis, Massachusetts Institute of Technology, (1976).
2. R. M. CANNON, H. K. BOWEN, A. M. GLAESER, H. J. MAYSON, F. A. McCLINTOCK, W. M. SHERRY, J. B. VANDERSANDE, and M. F. YAN, "Fabrication and Properties of Laser Window Materials," NBS Special Publication 462, (1976).
3. A. M. GLAESER, "Boundary Mobility of Lithium Fluoride," Sc. D. Thesis, Massachusetts Institute of Technology, (1981).
4. A. M. GLAESER, H. K. BOWEN, and R. M. CANNON, "Grain Boundary Migration in LiF," pp. 227-48 in SURFACES AND INTERFACES IN CERAMIC AND CERAMIC-METAL SYSTEMS, edited by J. A. Pask and A. G. Evans, Plenum Press, New York (1981).
5. A. M. GLAESER and J. C. CHEN, "Technique for Measuring Grain Boundary Mobility: Application to MgO-Doped Al₂O₃," *J. Am. Ceram. Soc.*, 65, [7], C97-C98 (1982).
6. A. M. GLAESER, J. S. HAGGERTY, and S. C. DANFORTH, U. S. PATENT No. 4,379,020, "Polycrystalline Semiconductor Processing," April 5, 1983.
7. W. C. CARTER and A. M. GLAESER, "The Effect of Dihedral Angle on the Stability of Pore Channels," *J. Am. Ceram. Soc.*, 67, [6], C124-C127 (1984).
8. A. M. GLAESER, "Microstructure Development in Ceramics: The Role of Grain Growth," *Yogyo Kyokai-Shi*, 92, [10], 537-46 (1984).
9. M. D. DRORY and A. M. GLAESER, "The Stability of Pore Channels: Experimental Observations," *J. Am. Ceram. Soc.*, 68, [1], C14-C15 (1985).
10. A. M. GLAESER, H. K. BOWEN, and R. M. CANNON, "Grain Boundary Migration in LiF: I. Mobility Measurements," *J. Am. Ceram. Soc.*, 69, [2], 119-26 (1986).
11. A. M. GLAESER, H. K. BOWEN, and R. M. CANNON, "Grain Boundary Migration in LiF: II. Microstructural Characteristics," *J. Am. Ceram. Soc.*, 69, [4], 299-309 (1986).
12. A. M. GLAESER, H. K. BOWEN, and R. M. CANNON, "Background Impurity Effects on Grain Boundary Migration in LiF," *Mater. Sci. and Eng.*, 79, [1], 111-17 (1986).
13. A. M. GLAESER and J. W. EVANS, "The Effect of Grain Boundary Migration on Apparent Boundary Diffusion Coefficients," *Acta Metall.*, 34, [8], 1545-52 (1986).
14. W. C. CARTER and A. M. GLAESER, "The Morphological Stability of Continuous Intergranular Phases," pp. 15-26 in TAILORING OF MULTIPHASE AND COMPOSITE CERAMICS, edited by R. E. Tressler, Plenum Press, New York (1986).
15. L. H. EDELSON and A. M. GLAESER, "Method of Removing Surface Porosity on Glassy Carbon Tiles," *Carbon*, 24, [5], 635-37 (1986).
16. W. C. CARTER and A. M. GLAESER, "The Morphological Stability of Continuous Intergranular Phases: Thermodynamic Considerations," *Acta Metall.*, 35, [1], 237-45 (1987).

PUBLICATIONS (CONT.):

17. W. C. CARTER and A. M. GLAESER, "The Effect of Finite Amplitude Perturbations on the Stability of Continuous Phases," *Mater. Sci. & Eng.*, 89, L41-L45 (1987).
18. A. M. GLAESER, "On the Morphological Stability of Finite-Length Intergranular Phases," *Materials Letters*, 5, [7/8], 239-245 (1987).
19. J. RÖDEL and A. M. GLAESER, "Production of Controlled Morphology Intergranular Pore Arrays: Implications and Opportunities," *J. Am. Ceram. Soc.*, 70, [8], C172-C175 (1987).
20. L. H. EDELSON and A. M. GLAESER, "Effects of Thermal Pretreatment on Coarsening of Nominally Monodispersed Titania," *J. Am. Ceram. Soc.*, 71, [4], C198-C201 (1988).
21. L. H. EDELSON and A. M. GLAESER, "The Role of Particle Substructure in the Sintering of Monosized Titania," *J. Am. Ceram. Soc.*, 71, [4], 225-35 (1988).
22. R. M. CANNON, T. S. OH, J. RÖDEL, A. M. GLAESER and R. O. RITCHIE, "Effects of Near Interfacial Microstructure on Toughness and Subcritical Crack Growth in Ceramic/Metal Systems," pp. 567-81 in *INTERFACES IN POLYMER, CERAMIC, AND METAL MATRIX COMPOSITES*, H. Ishida, Ed., Elsevier Science, New York, (1988).
23. J. RÖDEL and A. M. GLAESER, "A Technique for Investigating the Elimination and Coarsening of Model Pore Arrays," *Materials Letters*, 6, [10], 351-55 (1988).
24. J. RÖDEL and A. M. GLAESER, "Application of controlled interfacial pore structures to kinetic studies in alumina," pp. 485-90 in *INTERFACIAL STRUCTURES, PROPERTIES AND DESIGN*, edited by M. H. Yoo, W. A. T. Clark, and C. L. Braint (*Mater. Res. Soc. Proc.*, 122, Pittsburgh, PA 1988).
25. J. RÖDEL and A. M. GLAESER, "Photolithography: A New Tool for Ceramic Science," pp. 293-306 in *PROCESSING SCIENCE OF ADVANCED CERAMICS*, edited by I. Aksay and D. R. Ulrich (*Mater. Res. Soc. Proc.*, 155, Pittsburgh, PA 1989).
26. J. RÖDEL and A. M. GLAESER, "High Temperature Healing of Lithographically Introduced Cracks in Sapphire," *J. Am. Ceram. Soc.*, 73, [3], 592-601 (1990).
27. J. RÖDEL and A. M. GLAESER, "Morphological Evolution of Pore Channels in Alumina," pp. 243-257 in *SINTERING OF ADVANCED CERAMICS*, edited by C. A. Handwerker, J. E. Blendell and W. A. Kaysser, (*Ceramic Transactions*, 7, The American Ceramic Society, Westerville, OH 1990).
28. J. RÖDEL and A. M. GLAESER, "Pore Drag in Alumina," pp. 280-295 in *SINTERING OF ADVANCED CERAMICS*, edited by C. A. Handwerker, J. E. Blendell and W. A. Kaysser, (*Ceramic Transactions*, 7, The American Ceramic Society, Westerville, OH 1990).
29. J. RÖDEL and A. M. GLAESER, "Anisotropy of Grain Growth in Alumina," *J. Am. Ceram. Soc.*, 73, [11], 3293-301 (1990).
30. J. RÖDEL and A. M. GLAESER, "Pore Drag and Pore-Boundary Separation in Alumina," *J. Am. Ceram. Soc.*, 73, [11], 3302-12 (1990).

Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.