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Name: Yanhai Du  
Year of Appointment: 2013  
Academic Rank: Assistant Professor  
Area: Energy and Industrial Technology  
College of Applied Engineering, Sustainability and Technology  
Kent State University, P.O. Box 5190, Kent, OH 44242-0001  
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1. Academic Degrees

Degree	Year Degree Received	Discipline
B.Sc.	1983	Ceramics
M.Sc.	1998	Material Technology
Ph.D.	2004	Material Science

2. Extent, Recency, and Pertinence of Academic Preparation

2013-present	Assistant Professor, Kent State University
2009-2013	Research Professor, University of South Carolina
2002-2005	Research Scientist, University of Connecticut

3. Extent, Recency, and Pertinence of Industrial Professional Level Experience

2005-2009	Director of Fuel Cell Development, NanoDynamics Inc.
2000-2002	Sr. Process Engineer, Acumentrics Corporation
1989-1995	Project Manager, State Bureau of Building Materials Industries
1983-1989	Engineer, Central Iron and Steel Research Institute

4. Faculty Teaching and Administrative Assignments for Academic Year 2013-2014

Inclusive Dates	Course, Institution.
2013 Fall – 2014 Spring	Introduction to Sustainability, Kent State University
2014 Spring	Fuel Cell Technologies and Applications, Kent State University

5. Other Appropriate Collegiate Assignments for Academic Year 1983-2009

2005-2009	Director of Fuel Cell Development, NanoDynamics Inc.
2000-2002	Sr. Process Engineer, Acumentrics Corporation
1989-1995	Project Manager, State Bureau of Building Materials Industries
1983-1989	Engineer, Central Iron and Steel Research Institute

6. Funded Research Activities

- **“Liquid Fueled Solid Oxide Fuel Cell System”**  
Army Research Office via Protonex Technology Corporation
- **“Hydrogen Batteries for the War-fighter: From Army JP-8 to SOFC Power”**  
DARPA-Defense Sciences Office
- **“Fuel Flexible Advanced Power Solutions for Portable Applications”**  
DARPA-Defense Sciences Office
- **“Hydrogen Batteries for the War-fighter: Development & Evaluation of Propane-Fueled SOFC Stack & Systems”**  
U.S. Army
- **“Low-Cost Integrated Composite Seal for SOFC: Materials and Design Methodologies”**  
Department of Energy - SECA
- **“Fabrication of Ceramic Tubes for Electrolyzer Studies”**  
Lawrence Livermore National Laboratories

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## 7. Publications, Patents

### Peer Reviewed and Internationally Circulated Journal Articles

1. K. Reifsnider, W. Chiu, K. Brinkman, Yanhai Du, A. Nakajo, F. Rabbi and Q. Liu, “**Multiphysics Design and Development of Heterogeneous Functional Materials for Renewable Energy Devices: the HeteroFoam Story**”, *Journal of the Electrochemical Society*, **160** (4) F470-F481, 2013.
2. Yanhai Du, D. Cui, K. Reifsnider and F. Chen, “**Startup Characteristics of Propane-Fueled Solid Oxide Fuel Cell Hot Zones**”, *Journal of the Electrochemical Society*, **159**(6), B723-B728, 2012.
3. Yanhai Du, D. Cui and K. Reifsnider, “**Characterization of Propane-Fueled SOFC Portable Power Systems**”, *Electrochemical and Solid-State Letters*, **15**(5) B1-B5, 2012.
4. M. Lankin, Yanhai Du, and C. Finnerty, “**A Review of the Implications of Silica in Solid Oxide Fuel Cells**”, *Journal of Fuel Cell Science & Technologies*, **8**(5), Oct, 2011.
5. D. Cui, Yanhai Du, K. Reifsnider, F. Chen, “**One Thousand-hour Long Term Characteristics of a Propane-Fuelled Solid Oxide Fuel Cell Hot Zone**”, *Journal of Power Sources*, **196**, 6293–6298, 2011.
6. P.K. Cheekatamarla, C.M. Finnerty, Yanhai Du, J. Jiang, J. Dong, P.G. DeWald, C.R. Robinson, “**Advanced tubular solid oxide fuel cells with high efficiency for internal reforming of hydrocarbon fuels**”, *Journal of Power Sources*, **188**(2), 521-526, March 2009.
7. Yanhai Du, C. Finnerty and J. Jiang, “**Thermal Stability of Portable Microtubular SOFCs and Stacks**”, *Journal of the Electrochemical Society*, **155**(9), B972-B977, 2008.
8. N.M. Sammes, Yanhai Du, “**Fabrication and Characterization of Tubular Solid Oxide Fuel Cells**”, *International Journal of Applied Ceramic Technology*, **4**(2), 89-102, 2007.
9. N.M. Sammes, R. Bove, Yanhai Du, “**Assembling Single Cells to Create a Stack: The Case of a 100W Microtubular Anode-Supported Solid Oxide Fuel Cell Stack**”, *Journal of Materials Engineering and Performance*, **15**(4), 463-467, 2006.
10. N.M. Sammes, Yanhai Du and R. Bove, “**Design and Fabrication of a 100 W Anode Supported Micro-Tubular SOFC Stack**”, *Journal of Power Sources*, **145** (Aug) 428-434, 2005.
11. X. Xue, J. Tang, Yanhai Du and N. Sammes, “**Dynamic Modeling of Single Tubular SOFC Combining Heat/Mass Transfer and Electrochemical Reaction Effects**”, *Journal of Power Sources*, **142**(1-2), 211-222, 2004.
12. G. Ju, K. Reifsnider, X. Huang, Yanhai Du, “**Time Dependent Properties and Performance of a Tubular Solid Oxide Fuel Cell**”, *Journal of Fuel Cell Science and Technology*, **1**(1), 35-42, 2004.
13. Yanhai Du and N.M. Sammes, “**Fabrication and properties of anode-supported tubular solid oxide fuel cells**”, *Journal of Power Sources*, **136** (1) 66-71, 2004.
14. Yanhai Du, N.M. Sammes, G.A. Tompsett, D. Zhang, J. Swan and M. Bowden, “**Extruded Tubular Strontium- and Magnesium-Doped Lanthanum Gallate, Gadolinium-Doped Ceria, and Ytria-Stabilized Zirconia Electrolytes: Mechanical and Thermal Properties**” *Journal of Electrochemical Society*, **150** (1) A74-78, 2003.
15. Yanhai Du, N.M. Sammes, “**Fabrication and Performance of LaGaO<sub>3</sub>-Based Tubular SOFC's**”, *International Journal of Ionics*, **9**(1&2), 7-14, 2003.
16. Yanhai Du, N.M. Sammes, “**Electrical Performance of LaGaO<sub>3</sub>-Based Tubular SOFCs**”, *Journal of University of Science and Technology of China*, **32**, 38-48, 2002.
17. Yanhai Du, N.M. Sammes, “**Fabrication of tubular electrolytes for solid oxide fuel cells using strontium- and magnesium-doped LaGaO<sub>3</sub> materials**,” *Journal of the European Ceramic Society*, **21** (6), 727-735, 2001.
18. Yanhai Du, N.M. Sammes, and G.A. Tompsett, “**Optimisation Parameters for the Extrusion of Thin YSZ Tubes for Use as an Electrolyte for the SOFC**,” *Journal of the European Ceramic Society*, **20** (7), 959-965, 2000.
19. Y. Zhang, N. Sammes, and Yanhai Du, “**The Use of X-ray Analysis in Determining the Crystal Structure in  $\Phi$ -Bi<sub>8</sub>Pb<sub>5</sub>O<sub>17</sub>**,” *Solid State Ionics*, **124**, 179-184, 1999.
20. Yanhai Du, N.M. Sammes, G.A. Tompsett, and Y. Zhang, “**Phase Stability of Bismuth Lead Antimony Oxide**,” *Solid State Ionics*, **117**, 291-299, 1999.
21. Yanhai Du, N.M. Sammes, and G.A. Tompsett, “**Phase Transition Temperatures of Bi<sub>8</sub>Pb<sub>5</sub>O<sub>17</sub>**,” *Journal of Australasian Ceramic Society*, **34** (1) 124-129, 1998.

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22. Du Yanhai, “**The Development Problems Existing in Our Architectural Ceramic Industry and its Main Tasks Ahead**,” *China Ceramic Industry*, **1**(1), 7-9, 1994.
  23. Du Yanhai; Feng Jiarong, “**On the Change of Spinel in Magnesia-Chromite Brick Used in VOD Refining Furnaces**,” *China’s Refractories*, **2**(4), 29-31, 1993.
  24. Du Yanhai, “**Analysis on Technique Importation and its Digestion and Absorption Problems about Sanitary and Ceramic Kiln**,” *Ceramic*, **102**(2), 14-19, 1993.

**Conference Proceedings and Invited Papers**

25. Yanhai Du, D. Cui, K. Reifsnider, J. Persky, N. Palumbo, P. Osenar, “**From JP-8 Fuel to Solid Oxide Fuel Cell Portable Power**”, Fuel Cell Seminar & Exposition, Columbus, Ohio, October 23, 2013.
26. Yanhai Du, “**Super-High Volumetric Power Density SOFC Module**”, Fuel Cell Seminar & Exposition, Mohegan Sun, Connecticut, November 6, 2012.
27. K. Reifsnider, Yanhai Du, W. Chiu, and K. Brinkman, “**Integrative Multiphysics Development of Material Systems for a Renewable Future: The HeteroFoam Story**”, PRiME 2012-Renewable Fuels from Sunlight and Electricity, Honolulu, Hawaii, October 7-12, 2012.
28. Yanhai Du, D. Cui and K. Reifsnider, “**Portable Solid Oxide Fuel Cell Power Systems**”, *South Carolina SmartState Program Conference*, Charleston, SC, December 2011.
29. Yanhai Du, D. Cui, K. Reifsnider, “**Portable Solid Oxide Fuel Cell Power Systems Operated on Propane**”, *Low Carbon Earth Summit*, Dalian, China, October 22, 2011.
30. Yanhai Du, D. Cui, K. Reifsnider, “**SOFC Portable Power Systems**”, *International Symposium on SOFC Technology*, Ningbo, China, November 9-12, 2011,
31. Yanhai Du, D. Cui and K. Reifsnider, “**Characterization of Propane-Fueled SOFC Portable Power Systems**”, ECS Transactions – **35** (1), 167-178, "Solid Oxide Fuel Cells 12 (SOFC-XII)", Montreal, Canada, 2011.
32. Yanhai Du, D. Cui, K. Reifsnider and F. Chen, “**Startup Characteristics of Propane-Fueled Solid Oxide Fuel Cell Hot Zones**”, ECS Transactions – **35** (1), 2735-2744, "Solid Oxide Fuel Cells 12 (SOFC-XII)", Montreal, Canada, 2011.
33. D. Cui, Yanhai Du, K. Reifsnider and F. Chen, “**Environmental Effects on a Thermally Self-Sustained SOFC Hot Zone**”, ECS Transactions – **35** (1), 297-312, "Solid Oxide Fuel Cells 12 (SOFC-XII)", Montreal, Canada, 2011.
34. C. Zuo, Yanhai Du, C. Finnerty, P. Cheekatamarla, J. Dong, J. Jiang, W. Huang, M. Lankin and R. Sharp, “**Advanced Anode-supported Micro-tubular SOFC Development**”, ECS Transactions - 2008 Fuel Cell Seminar & Exposition - Solid Oxide Fuel Cell Posters, Volume 17, March 2009.
35. Yanhai Du, C. Finnerty and J. Jiang, “**Thermal Stability of Portable Microtubular SOFCs and Stacks**”, ECS Trans. **12**, (1) 363 (2008).
36. P.K. Cheekatamarla, C.M. Finnerty, Yanhai Du, Y. Lu, C.L. Robinson, P.G. DeWald, and S. Andrews “**Performance Characteristics of an Integrated Portable JP8 SOFC - Reformer System**”, ECS Trans. **5**, (1) 453 (2007)
37. C. Finnerty, Yanhai Du, B.J. Emley, P. Cheekatamarla, W. Zhu, J. Cai, and R. Sharp “**Geometric Effects on Tubular Solid Oxide Fuel Cells**”, ECS Transactions - Solid Oxide Fuel Cells, **7** (1) 589 (2007)
38. C. Finnerty, C. Robinson, S. Andrews, Yanhai Du, P. Cheekatamarla, P. DeWald, Y. Lu, and T. Schwartz “**Portable Propane Micro-Tubular SOFC System Development**” ECS Transactions - Solid Oxide Fuel Cells, **7**, (1) 483 (2007)
39. Yanhai Du, C. Finnerty, J. Jiang, “**Thermal Stability of Portable Micro-Tubular Solid Oxide Fuel Cell and Stack**”, *The Fuel Cell Seminar*, San Antonio, TX, October 15-19, 2007.
40. P.K. Cheekatamarla, C.M. Finnerty, J. Cai, and Yanhai Du, “**Internal Reforming of Hydrocarbon Fuels in Tubular Solid Oxide Fuel Cells**” *The Fuel Cell Seminar*, San Antonio, TX, October 15-19, 2007.
41. P.K. Cheekatamarla, C.M. Finnerty, Yanhai Du, Y. Lu, C.L. Robinson, P.G. DeWald, and S. Andrews “**Performance Characteristics of an Integrated Portable JP8 SOFC - Reformer System**”, *ECS Transactions*, Volume 5, March 2007.
42. C.Finnerty, Yanhai Du, B.J. Emley, P. Cheekatamarla, W. Zhu, J. Cai, and R. Sharp “**Geometric Effects on Tubular Solid Oxide Fuel Cells**”, *ECS Transactions*, Volume 5, March 2007.

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43. C. Finnerty, C. Robinson, S. Andrews, Yanhai Du, P. Cheekatamarla, P. DeWald, Y. Lu, and T. Schwartz “**Portable Propane Micro-Tubular SOFC System Development**”, *ECS Transactions*, Volume 5, March 2007.
  44. X. Huang, K. Ridgeway, S. Narasimhan, Yanhai Du, K. Reifsnider, C. Ma, F.g Shu “**Low-Cost Integrated Composite Seal for SOFC: Materials and Design Methodologies**”, SECA Core Technology Meeting, 2005.
  45. N.M. Sammes, Yanhai Du and R. Bove, “**Design and Fabrication of a 100W Anode Supported Micro-Tubular SOFC Stack**”, *9<sup>th</sup> Grove Fuel Cell Symposium*, London, UK, October 4-6, 2005.
  46. Yanhai Du and N.M. Sammes, “**Intermediate-Temperature SOFCs with All-Perovskite Materials, Part One: Interactions between LSGM Electrolyte and LSCM Anode**”, submitted to *5<sup>th</sup> International Symposium on Ionic and Mixed Conducting Ceramics*, Honolulu, Oct.3-8, 2004.
  47. Yanhai Du, N.M. Sammes and B. Eberly, “**Anode Supported Tubular SOFC Systems: Fabrication and Properties**”, in *Proceedings of 6<sup>th</sup> European Solid Oxide Fuel Cell Forum*, ed. M. Mogensen, volume 1, p125, Lucerne, Switzerland, June 28-July 2, 2004.
  48. A. Samant, N.M. Sammes and Yanhai Du, “**Properties Of Doped Lanthanum Cobaltite With Various Alumina Additions As a Potential IT-SOFC Cathode**”, in *Proceedings of 6<sup>th</sup> European Solid Oxide Fuel Cell Forum*, ed. M. Mogensen, volume 1, p1295, Lucerne, Switzerland, June 28-July 2, 2004.
  49. Yanhai Du and N.M. Sammes, “**Fabrication and Characterization of Tubular Solid Oxide Fuel Cells**”, *First International Conference on Fuel Cell Development and Deployment*, Storrs, Connecticut, USA, March 7-10, 2004.
  50. Yanhai Du, N.M. Sammes and R. England, “**A Novel Design Concept to Increase Tubular Stack Volumetric Power Density and Fuel Efficiency**”, *First International Conference on Fuel Cell Development and Deployment*, Storrs, Connecticut, USA, March 7-10, 2004.
  51. N.M. Sammes and Yanhai Du, “**The Mechanical Properties of Electrolyte and Electrode Supported Tubular Solid Oxide Fuel Cells**”, *First International Conference on Fuel Cell Development and Deployment*, Storrs, Connecticut, USA, March 7-10, 2004.
  52. K. Gupta, Yanhai Du, A. Jena and N.M. Sammes, “**Porosity Characterization of Anode Support for Solid Oxide Fuel Cells**”, *First International Conference on Fuel Cell Development and Deployment*, Storrs, Connecticut, USA, March 7-10, 2004.
  53. N.M. Sammes, Yanhai Du, R. England, “**Anode-Supported Tubular SOFC’s for use in Electric Vehicles**”, *First International Conference on Fuel Cell Development and Deployment*, Storrs, Connecticut, USA, March 7-10, 2004.
  54. N.M. Sammes, Yanhai Du, N. Pature, M. Wei, X. Huang, G. Ju, J. Wu, and K. Reifsnider, “**Synthesis, Fabrication and Modeling of Novel Intermediate-Temperature Micro-Tubular SOFCs**”, *First International Conference on Fuel Cell Development and Deployment*, Storrs, Connecticut, USA, March 7-10, 2004.
  55. Yanhai Du, “**Extrusion Die Design for Manufacturing Tubular Solid Oxide Fuel Cells**”, *8<sup>th</sup> Grove Fuel Cell Symposium*, ExCel, London, UK, September 24-26, 2003.
  56. N.M. Sammes, K. Reifsnider, R. England, X. Huang, Yanhai Du and A. Smirnova, “**The Role of Fuel Cells in a Secure Power Infrastructure**”, *International Conference on Advanced Technologies for Homeland Security*, Storrs, Connecticut, USA, September 25-26, 2003.
  57. Yanhai Du, X. Huang, N.M. Sammes, K. Reifsnider, A.L. Smirnova, “**Fabrication and Performance Evaluation of Micro-Tubular SOFCs Using Doped-Lanthanum Gallate Electrolytes**”, *5<sup>th</sup> Gordon Conference on Fuel Cells*, Rhode Island, USA, July 27- August 1, 2003.
  58. Yanhai Du and N.M. Sammes, “**Fabrication and Performance of a small SOFC Stack Using Doped Lanthanum Gallate Electrolyte**”, in *Proceedings of Eighth International Symposium on Solid Oxide Fuel Cells (SOFC VIII)*, Paris, April 28-May 2, 2003. *Electrochemical Society Proceedings Volume 2003-07*, p1119-1125.
  59. Yanhai Du, N.M. Sammes, R. England, “**Novel SOFC Tubular Design Configurations**”, in *Proceedings of Eighth International Symposium on Solid Oxide Fuel Cells (SOFC VIII)*, Paris, April 28-May 2, 2003. *Electrochemical Society Proceedings Volume 2003-07*, p1077-1081.
  60. V. Mandakolathur, Yanhai Du, and N.M. Sammes, “**Direct Methane Oxidation in Micro-Tubular SOFCs Using Doped LaGaO<sub>3</sub> Electrolyte**”, in *Proceedings of Eighth International Symposium on Solid Oxide Fuel*

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*Cells (SOFC VIII)*, Paris, April 28-May 2, 2003. Electrochemical Society Proceedings Volume 2003-07, p1170-1175.

61. Yanhai Du, N.M. Sammes, “**Electrical Performance of LaGaO<sub>3</sub>-Based Tubular SOFCs**”, plenary talk at the *International Workshop on Solid Electrochemical Devices for Energy Conversion & the 11<sup>th</sup> National Conference on Solid State Ionics*, Hefei, China, October 14-19, 2002.
62. Yanhai Du, N.M. Sammes, “**Fabrication and Performance of LaGaO<sub>3</sub>-Based Tubular SOFC’s**,” presented at the *9<sup>th</sup> EuroConference on Science and Technology of Ionics*, Greece, 2002.
63. Yanhai Du, N.M. Sammes, G.A. Tompsett, and M. Bowden, “**Comparison of Mechanical and Thermal Properties of the Tubular LSGM, CGO, and YSZ Electrolytes**,” in *Proceedings of the 7th International Symposium on Solid Oxide Fuel Cells (SOFC-VII)*, ed S.C. Singhal, H. Tagawa, *Electrochemical Proceedings Volume 2001-16*, pp.311-320, The Electrochemical Society, Inc. Pennington, NJ, 2001.
64. Yanhai Du and N.M. Sammes, “**Microstructural and Mechanical Properties of Extruded Doped-Lanthanum Gallate Electrolytes**”, in *Proceedings of the 4th European Solid Oxide Fuel Cell Forum*, Lucerne, Switzerland, pp.783-792, 2000.
65. Yanhai Du and N.M. Sammes, “**Microstructure and Mechanical Properties of Extruded LSGM Electrolyte**”, in *Proceedings of the 6th Annual New Zealand Engineering and Technology Post-Graduate Student Conference*, Auckland, December, pp.189-194, 1999.
66. Yanhai Du, and N.M. Sammes, “**LaGaO<sub>3</sub>-based Electrolyte Tubular SOFC Fabrication**,” in *Proceedings of the 5<sup>th</sup> Annual New Zealand Engineering and Technology Postgraduate Conference*, ed B. Teekman, P. Milliken, and N. Body, Messey, New Zealand, November, 1998.
67. N.M. Sammes, Yanhai Du and G.A. Tompsett, “**Effect of Sb<sub>2</sub>O<sub>3</sub> Dopant Concentration on the Phase Equilibria and Stability of Bi<sub>8</sub>Pb<sub>5</sub>O<sub>17</sub> Electrolytes**,” in *Proceedings of the Fifth International Symposium on Solid Oxide Fuel Cells (SOFC-V)*, ed U. Stimming, S.C. Singhal, H. Tagawa, W. Lehnert, *Electrochemical Society*, **97-40**, 1051-1056, 1997.
68. Yanhai Du and N.M. Sammes, “**Phases Present in the Bismuth Lead Antimony Oxide System**,” in *Proceedings of the 4th Annual New Zealand Engineering and Technology Post-Graduate Student Conference*, Hamilton, July, 17-21, 1997.
69. Yanhai Du and K. Pickering, “**The Effect of Manufacturing Conditions on the Properties of Cement Castables**,” in *Proceedings of the 4th Annual New Zealand Engineering and Technology Post Graduate Student Conference*, Hamilton, July, 1997.

#### Invited Talks

70. Yanhai Du, “**Portable SOFC Systems and New Cell Microstructure**”, Shanghai Institute of Ceramics, Chinese Academy of Science, November 9, 2011.
71. Yanhai Du, “**Solid Oxide Fuel Cell - a Fuel Flexible and High Efficient Energy Technology**”, Tsinghua University, November 4, 2011.
72. Yanhai Du, “**From Coal to Electricity without Combustion - Solid Oxide Fuel Cell Technology**”, China University of Geosciences, November 2, 2011.
73. Yanhai Du, “**Tubular Solid Oxide Fuel Cell Technologies**”, Dalian Institute of Chemical Physics, Dalian Institute of Chemical Physics, Chinese Academy of Science, October 24, 2011.

#### Patents

74. Yanhai Du, C. Finnerty, “**Tubular Electrochemical Cell**” US Patent # 8,182,959, 2012.
75. Yanhai Du, K. Reifsnider, “**Miniature Liquid Fuel Desulfurizer**”, US Utility Patent Application, serial no. 13/603,834, filed on September 5, 2012.
76. Yanhai Du, K. Reifsnider, “**Metal Supported Tubular Solid Oxide Fuel Cell Stack**”, Patent Disclosure, 2/16/2011.
77. C. Finnerty, Yanhai Du, J. Cai, “**Electrochemical System Having Multiple Independent Circuits**,” *US and International Application, Pending*, PCT/US2007/012490, April 2008
78. X. Huang, K.L. Reifsnider, R.O. England, Yanhai Du “**Joints and Methods of Making and Using**” *US Patent Application*, 2006/0172141, 2006.
79. Yanhai Du, N.M. Sammes, R. England, “**Solid State Electrochemical Devices**,” *US Patent Application*, 2004/0258972, 2004.

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80. Yanhai Du, N.M. Sammes, “**Methods of Manufacture of Electrolyte Tubes for Solid Oxide Devices and the Devices Obtained Therefrom**,” *US Patent Application*: 2004/0247973, 2004.
  81. C. Finnerty, G. Tompsett, F. Basil, Yanhai Du, “**Segmented Electrode Tubular Solid Oxide Fuel Cell and Method of Manufacture**,” *US and International Patent Application*, WO/2002/031901.
  82. Yanhai Du, “**System and Method for Current Collection within Fuel Cell Tubes**,” *US Patent Application*, 60/323,664, 2001.

**Book Chapters, Edited Conference Proceedings Volumes, Thesis and Reports**

83. K. Reifsnider, Yanhai Du, D. Cui, “**From Army JP-8 to SOFC Power**”, Final project report to DARPA, January 27, 2012.
84. K. Reifsnider, Yanhai Du, D. Cui, “**Development & Evaluation of Propane-Fueled SOFC Stacks & Systems**”, Final project report to CERDEC, December 16, 2010.
85. N.M. Sammes and Yanhai Du, “**Fabrication and Properties of an Anode-Supported Tubular IT-SOFC Based on Lanthanum Gallate**” in *Advances in Solid Oxide Fuel Cells: Ceramic Engineering and Science Proceedings*, Chapter 4, V.26 (4), (ISBN: 9781574982343), Editor: N.P. Bansal, John Wiley & Sons, p.41, 2008.
86. N.M. Sammes, Yanhai Du, R. Bove, “**Fuel cell Principles and Perspectives**” in *Biofuels for Fuel Cells: Renewable Energy from Biomass Fermentation*, 235-247, (ISBN: 1843390922), Editors: P. Lens, P. Westermann, M. Haberbauer and A. Moreno, IWA publishing, 2005.
87. Yanhai Du, N.M. Sammes, “**Development of Micro-Tubular Solid Oxide Fuel Cells**” in *Recent Research Developments in Electrochemistry*, 7(2004): 111-131, (ISBN: 81-7895-123-1), Editor: S.G. Pandalai, Transworld Research Network, 2004.
88. N.M. Sammes, Yanhai Du, “**Intermediate Temperature SOFC Electrolytes**,” in *Fuel Cell Technologies: State and Perspectives*, N.M. Sammes, A. Smirnova and O. Vasylyev (Editors), NATO Science Series, p. 19, 2004.
89. Yanhai Du, “**Fabrication and Characterization of Tubular Solid Oxide Fuel Cells**,” PhD Thesis, University of Waikato, New Zealand, 2004.
90. Yanhai Du, “**Phase Equilibria of Bismuth Lead Antimony Oxide**,” MS Thesis, University of Waikato, February 1998.
91. Yanhai Du, “**Refractory Materials Seizing to China, The 5<sup>th</sup> International Glass Exhibition**,” *China Building Materials News*, June 1, 1994.
92. “**Experiences of Technique Importation and Its Digestion and Absorption of Sanitary and Ceramic Kilns**”, Editors: Z. Gan, W. Zhang, Y. Tian, Y. Wang, Yanhai Du, X. Wang, X. Chen, Y. Zhao, State Administration of Building Materials Industry, Zhonglun Ceramic Technology and Equipment Company, and Institute of Building Materials Information Technology, February 1993.
93. “**Research Project Guide of Marine Cement and Concrete**,” Editors: L. Zhou, Yanhai Du, P. Xu, State Administration of Building Materials Industry, February 1992.
94. “**Symposium of China Building Materials Science and Technology Foundation**” (awarded projects during 1987-1990), Editors: D. Xia, L. Zhou, Yanhai Du, T. He, W. Chen, State Administration of Building Materials Industry, December 1991.

8. Professional Honors

- **2013, Invent Event Winners, Honorable Mentions, University of South Carolina**  
Title of Invention: Liquid Fuel On-board Miniature Desulfurizer  
Inventors: Yanhai Du, Kenneth Reifsnider