Professor Kathy Lu’s Group Publications

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Patent:

Publications:

Books:

Books Edited:

Book Chapters:
Journal papers:
117. F. Shen, K. Lu, “Co$_x$Fe$_{1-x}$ Oxide Coatings on AISI 441 for Solid Oxide Fuel Cells,” Journal of Power Sources, accepted.

111. F. Shen, K. Lu, “Perovskite-type La$_{0.6}$Sr$_{0.4}$Co$_{0.2}$Fe$_{0.8}$O$_3$, Ba$_{0.5}$Sr$_{0.5}$Co$_{0.2}$Fe$_{0.8}$O$_3$, and Sm$_{0.5}$Sr$_{0.5}$Co$_{0.2}$Fe$_{0.8}$O$_3$ Cathode Materials for Solid Oxide Fuel Cells,” Electrochemical Acta, 211, 445–452, 2016.


107. F. Shen, K. Lu, “Comparative Study of La$_{0.6}$Sr$_{0.4}$Co$_{0.2}$Fe$_{0.8}$O$_3$, Ba$_{0.5}$Sr$_{0.5}$Co$_{0.2}$Fe$_{0.8}$O$_3$ and Sm$_{0.5}$Sr$_{0.5}$Co$_{0.2}$Fe$_{0.8}$O$_3$ Cathodes and the Effect of Sm$_{0.2}$Ce$_{0.8}$O$_2$ Block Layer in Solid Oxide Fuel Cells,” International Journal of Hydrogen Energy, 40, 16457-16465, 2015.


104. F. Shen, K. Lu, “La$_{0.6}$Sr$_{0.4}$Co$_{0.2}$Fe$_{0.8}$O$_3$ Cathodes Incorporated with Sm$_{0.2}$Ce$_{0.8}$O$_2$ by Three Different Methods for Solid Oxide Fuel Cells,” Journal of Power Sources, 296(20), 318–326, 2015.


96. F. Shen, K. Lu, “Moisture Effect on La$_{0.8}$Sr$_{0.2}$MnO$_3$ and La$_{0.6}$Sr$_{0.4}$Co$_{0.2}$Fe$_{0.8}$O$_3$ Cathode Behaviors in Solid Oxide Fuel Cells,” Fuel Cells, 15, 105–114, 2015.

91. K. Lu, F. Shen, “Effect of Stoichiometry on (La$_{0.6}$Sr$_{0.4}$)$_x$Co$_{0.2}$Fe$_{0.8}$O$_3$ Cathode Evolution in Solid Oxide Fuel Cells,” Journal of Power Sources, 267, 421–429, 2014.
88. K. Lu, F. Shen, “Long Term Behaviors of La$_{0.8}$Sr$_{0.2}$MnO$_3$ and La$_{0.6}$Sr$_{0.4}$Co$_{0.2}$Fe$_{0.8}$O$_3$ as Cathodes for Solid Oxide Fuel Cells,” International Journal of Hydrogen Energy, 39, 7963-7971, 2014.
60. T. J in, K. Lu, “Surface and Interface Behaviors of (La0.8Sr0.2)3MnO3 Air Electrode for Solid Oxide Cells,” Journal of Power Sources, 196, 8331–8339, 2011.
**Conference Proceedings:**

**Technical papers:**


Teaching papers:


Invited Talks


19. F. Shen, K. Lu, “Properties of Electrodeposition Co and Electrophoresis Sm0.2Ce0.8O1.9 Protective Layer on AISI 441 for Solid Oxide Fuel Cells,” Materials Science and Engineering 2015 Conference, Columbus, OH, October 4-8, 2015.


17. K. Lu, F. Shen, “(La0.6Sr0.4)3Co0.2Fe0.8O3 and Related Cathode Materials in Solid Oxide Fuel Cells,” 2015 TMS 144th Annual Meeting & Exhibition, Walt Disney World, Orlando, FL, March 15-19, 2015.

15. K. Lu, “Patterning, Morphology Control, and Feature Array Transfer through Focused Ion Beam Guided Anodization,” University of Virginia, Charlottesville, VA, April 14, 2014.