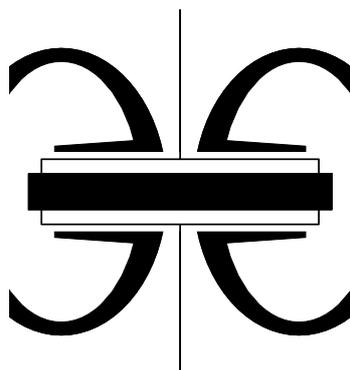


Proceedings of



12th European SOFC & SOE Forum 2016

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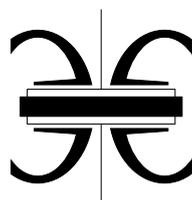
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Solid Oxide Fuel Cell (SOFC)

Solid Electrolyte, Cathode, Anode Materials

1. Powder
2. Printable Paste
(Particle Size, Viscosity, Resin, Water, Organic Solvent) etc... as you request)
3. Oxide Material Synthesis for SOFC besides below table as customer request
4. Oxide Material Synthesis for Interconnect, Sealant Materials as customer request

Cathode Materials	
$\text{La}_{0.7-0.8}\text{Sr}_{0.2-0.3}\text{Mn}_{1.02-1.05}\text{O}_3$	Lanthanum Strontium Manganate
$\text{La}_{0.6}\text{Sr}_{0.4}\text{Co}_{0.2}\text{Fe}_{0.8}\text{O}_3$	Lanthanum Strontium Cobalt Ferrite
LSM + YSZ	LSM + YSZ mixed Composite
LSCF + GDC	LSCF + GDC mixed Composite
$\text{La}_{0.6-0.8}\text{Sr}_{0.2-0.4}\text{FeO}_3$	Lanthanum Strontium Ferrite
$\text{La}_{0.6-0.7}\text{Sr}_{0.3-0.4}\text{CoO}_3$	Lanthanum Strontium Cobaltite
$\text{Sm}_{0.5}\text{Sr}_{0.5}\text{CoO}_3$	Samarium Strontium Cobaltite
$\text{LaNi}_{0.6}\text{Fe}_{0.4}\text{O}_3$	Lanthanum Nickel Ferrite
$\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Co}_{0.2}\text{Fe}_{0.8}\text{O}_3$	Barium Strontium Cobalt Ferrite
$\text{La}_{0.7}\text{Sr}_{0.3}\text{Cu}_{0.2}\text{Fe}_{0.8}\text{O}_3$	Lanthanum Strontium Copper Ferrite
$\text{La}_{1.6}\text{Sr}_{0.4}\text{NiO}_4$	Lanthanum nickelate, strontium doped
La_2NiO_4	Lanthanum nickelate
$\text{Mn}_{1.5}\text{Co}_{1.5}\text{O}_4$	Manganese cobalt oxide
Solid Electrolyte Materials	
$(\text{Y}_2\text{O}_3)_{0.03-0.08}(\text{ZrO}_2)_{0.92-0.97}$	Yttria Stabilized Zirconia
$(\text{Y}_2\text{O}_3)(\text{Sc}_2\text{O}_3)(\text{ZrO}_2)$	Yttria and Scandia Stabilized Zirconia
$(\text{Y}_2\text{O}_3)(\text{Sc}_2\text{O}_3)(\text{Bi}_2\text{O}_3)(\text{ZrO}_2)$	Bi doped Yttria and Scandia Stabilized Zirconia
$\text{Gd}_{0.1}\text{Ce}_{0.9}\text{O}_{1.95}$	Gd doped Ceria
$\text{Sm}_{0.2}\text{Ce}_{0.8}\text{O}_{1.9}$	Sm doped Ceria
$\text{La}_{0.4}\text{Ce}_{0.6}\text{O}_{1.8}$	La doped Ceria
LSGM	Doped Lanthanum Gallate
$\text{Ce}_{0.8}\text{Pr}_{0.2}\text{O}_2$	Cerium oxide, praseodymium doped
MDLS	Magnesium or Metal doped Lanthanum Silicate
Anode Materials	
NiO	Nickel Oxide
NiO + Solid Electrolyte	Nickel Oxide + YSZ or any type of Solid Electrolyte

Fuji Pigment Co.Ltd
 2-23-2 Obana Kawanishi-city, Hyogo prefecture 666-0015 JAPAN
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 WEB : <http://www.fuji-pigment.co.jp/en/index.html>



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SOFC Cathode Degradation Studies Using Impedance Spectroscopy Genetic Programming

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