



[Chemical and Biological Engineering](#) > SHIGENO Koichi



SHIGENO Koichi

Organization	Chemical and Biological Engineering
Position	Associate Professor
Academic Title	Master (Engineering), APEC Engineer (Chemical)
Research Fields	Inorganic Material Engineering

<< Research Subjects >>

1. [Low temperature sintering of ceramics and their application to electronic devices](#)
2. [Novel inorganic materials and processing \(thermoelectric materials, dielectric materials, biomaterials\)](#)
3. [Science and mathematics education and technology development on developing countries](#)

<< Academic Activities >>

Papers and Notes

1. [Koichi Shigeno, Hidenori Katsumura, Hiroshi Kagata, Hiroshi Asano and Osamu Inoue: "Preparation and Characterization of Low Temperature Sintered Alumina by CuO-TiO₂-Nb₂O₅-Ag₂O Additives.", Ferroelectrics, Vol.356, Number 1, pp.189-196 \(2007\).](#)
2. [Koichi Shigeno, Hidenori Katsumura, Hiroshi Kagata, Hiroshi Asano and Osamu Inoue: "Low Temperature Sintering of Alumina by CuO-TiO₂-Nb₂O₅ Additives.", Key Engineering Materials, Vol.320, pp.181-184 \(2006\).](#)
3. [Takamichi Iida, Hidenori Sakai, Yoshifumi Kita and Koichi Shigeno: "An Equation for Accurate Prediction of the Viscosities of Blast Furnace Type Slags from Chemical Composition.", ISIJ International, Vol. 40, Supplement, pp.S110-S114 \(2000\).](#)

Presentations

1. [Koichi Shigeno, Tadashi Asakawa, and Yuto Kuraoka: "Co-firing of Low Temperature Sintered Alumina with Silver Electrodes at 900 C or Below and Analysis of Their Reactivity.", RSCE2013, Philippines, November 12-13, 2013.](#)
2. [Koichi Shigeno, Hidenori Katsumura, Hiroshi Kagata, Hiroshi Asano and Osamu Inoue: "Preparation and Characterization of Low Temperature Sintered Alumina by CuO-TiO₂-Nb₂O₅-Ag₂O Additives.", The 5th Asian Meeting on Ferroelectrics, Japan, September 3-8, 2006](#)

Others

1. [\[Patent\] Ryuichi Saito, Koichi Shigeno and Hiroshi Kagata: "Ceramic laminated device and method for manufacturing same.", US-Patent No.7826196, Application No.12/161901\(2007.03.06\) Publication No.2009/0034157](#)