

List of publication

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Mori T

Refereed original papers

1-1. Design of electrolytes, electrodes, and catalysis

1. Anna L, Zou J, Mori T and Drennan J,
Glass Phase Movement in Ytria-Stabilised Zirconia/Alumina Composites
Journal of the American Ceramic Society, (accepted for publication).
2. Matolin V, Cabala M, Matolinova I, Škoda M, Václavu M, Prince K C, Skala T, Prince K,
Skála T, Mori T, Yoshikawa H, Yamashita Y, Ueda S, and Kobayashi K,
Pt and Sn doped sputtered CeO₂ catalysts for fuel cell applications,
Fuel Cells, Vol.10(1), pp.139-144 (2010).
3. Yan M, Mori T, Zou J, Huang H, and Drennan J,
Microstructures and mechanical properties of Ce_{1-x}Ca_xO_{2-y} (x = 0.05, 0.1, 0.2) with
different sintering temperatures,
Journal of the European Ceramic Society, Vol.30, pp. 669–675 (2010).
4. Tsud N, Skala T, Masek K, Hanys P, Takahashi M, Suga H, Mori T,
Yoshikawa H, Yoshitake M, Ueda S, Kobayashi K, and Matolin V,
Photoemission study of the tin doped cerium oxide thin films prepared by RF magnetron
sputtering,
Thin Solid Films, Vol.518, pp.2206-2209 (2010).
5. Balasubramanian V V, Anand C, Pal R, Mori T, Bohlmann W, Ariga K,
Tyagi A K, and Vinu A,
Characterization and the catalytic applications of mesoporous AISBA-1
Microporous and Mesoporous Materials, Vol.121 (1-3), pp.18-25 (2009).
6. Richards G, Hill J, Subbaiyan N, D'Souza F, Karr P, Elsegood M, Teat S, Mori T, and
Ariga K,
Pyrazinacenes – Aza Analogues of Acenes
J. Org. Chem., Vol.74, pp.8914–8923 (2009).

7. Ye F, Mori T, Ou D R, Zou J, and Drennan J
A structure model of nano-sized domain in Gd-doped ceria,
Solid State Ionics, Vol.180 (26-27), pp. 1414–1420 (2009).
8. Alam S, Anand C, Ariga K, Mori T, and Vinu A
Unusual magnetic properties of size-controlled iron oxide nanoparticles grown in a
nanoporous matrix with tunable pores
Angew. Chem. Int. Ed., 48 (40), pp. 7358-7361 (2009).
9. Yan M, Mori T, Zou J, and Drennan J,
Effect of grain growth on densification and conductivity of Ca-doped CeO₂ electrolyte,
Journal of the American Ceramics Society, Vol.92(11), pp.2745-2750 (2009).
10. Ye F, Mori T, Ou D R, and Cormack A,
Dopant Type Dependency of Domain Development in Rare-Earth-Doped Ceria: An
Explanation by Computer Simulation of Defect Clusters
Solid State Ionics, Vol.180, pp. 1127–1132 (2009).
11. Richards G, Hill J, Okamoto K, Shundo A, Akada M, Elsegood M, Mori T, and Ariga K,
Diverse Self-assembly in Soluble Oligoazaacenes: A Microscopy Study,
Langmuir, 25(15), pp. 8408–8413 (2009).
12. Ou D R, Mori T, Ye F, Zou J, and Drennan J,
Direct-current-induced transformation at the interface between platinum anode and
holmium-doped ceria electrolyte,
Journal of Applied Physics, Vol.105, 113524-1 - 113524-5(2009).
13. Cho P-S, Park S-Y, Cho Y H, Kim S-J, Kang Y C, Mori T, and Lee J-H,
Preparation of LSGM powders for low temperature sintering,
Solid State Ionics, Vol.180, pp.788-791(2009).
14. Ou D R, Mori T, Ye F, Miyayama M, Nakayama S, Zou J, Auchterlonie G, and Drennan J,
Microstructural characteristics of samarium-doped ceria (SDC) electrolyte film supported
by Ni-SDC cermet anode,
Journal of the Electrochemical Society, Vol.156(7), B825-B830(2009).

15. Kim J D, Nishimura C, Mori T, and Kucernak A,
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Journal of the Electrochemical Society, Vol.156(6), B729-B734(2009).
16. Alam S, Logudurai R, Balasubramanian V V, Ariga K, Bose A C, Mori T, Srinivasu P, and Vinu A,
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17. Sawant D P, Balasubramanian V V, Justus J, Halligudi S B, Bose A C, Ariga K, Mori T, and Vinu A
Novel highly acidic nanoporous cage type materials and their catalysis,
Topics in Catalysis, Vol.52, pp.111-118 (2009).
18. Yan M, Mori T, Zou J, Ye F, Ou D R, and Drennan J,
TEM and XPS analysis of $\text{Ca}_x\text{Ce}_{1-x}\text{O}_{2-y}$ ($x = 0.05 - 0.5$) as electrolyte materials for solid oxide fuel cells
Acta Materialia, Vol.57, pp.722-731(2009).
19. Vinu A, Gokulakrishnan N, Balasubramanian V V, Alam S, Kapoor M P, Ariga K, and Mori T,
Three-dimensional ultralarge-pore Ia3d mesoporous silica with various pore diameters and their application in biomolecule immobilization,
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22. Kim J D, Hayashi S, Onoda M, Sato Akira, Nishimura C, Mori T, and Honma I,
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Acid and the Ionic Liquid [BMIM][TFSI]
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23. Kim J D, Mori T, Kudo T, and Honma I,
Ionogel electrolytes at medium temperatures by composite of ionic liquids with proton
conducting cesium hydrogen sulfate
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24. Vinu A, Srinivasu P, Balasubramanian, V V, Ariga K, Mori T, and Nemoto Y
Three-dimensional mesoporous TiKIT-6 with Ia3d symmetry synthesized at low acid
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25. Yan M, Mori T, Ye F, Ou D R, Zou J, and Drennan J,
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Ca-doped ceria nanopowders,
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29. Srinivasu P, Vinu A, Hishita S, Sasaki T, Ariga K, and Mori T,

- Preparation and characterization of novel microporous carbon nitride with very high surface area via nanocasting technique,
Microporous and Mesoporous Materials, Vol.108(1-3), pp.340-344 (2008).
30. Vinu A, Anandan S, Srinivasu P, Anand C, Ariga K, and Mori T,
Fabrication of partially graphitic three-dimensional nitrogen-doped mesoporous carbon using polyaniline nanocomposite through nanotemplating method,
Microporous and Mesoporous Materials, Vol.109(1-3), pp.398-404 (2008).
31. Takahashi M, Mori T, Vinu A, Ou D R, Kobayashi H, and Drennan J,
Development of high quality Pt-CeO₂ electrodes supported on carbon black for direct methanol fuel cell applications,
Advances in Applied Ceramics, Vol.107(2), pp.57-63 (2008).
32. Ye F, Mori T, Ou D R, Zou J, and Drennan J,
Microstructural characterization of Ce_{1-x}Tb_xO_{2-δ} (0.60 < x < 0.90) sintered samples,
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34. Ariga K, Vinu A, Miyahara M, Hill J P, and Mori T,
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Journal of the American Chemical Society, Vol.129(36), pp.11022-11023 (2007).
35. Kim J D, Mori T, and Honma I,
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36. Kim J D, Hayashi S, Mori T, and Honma I,
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37. Srinivasu P, Balasubramanian V V, Kumaresan L, Swant D P, Jin X, Alam S, Ariga K, Mori T, and A.Vinu,
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40. Swant D P, Vinu A, Mirajkar S P, Lefebvre F, Ariga K, Anandan S, Mori T, Nishimura C, and Halligudi S B,
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51. Takahashi M, Mori T, Ye F, Vinu A, Kobayashi H, and Drennan J,
Design of high quality Pt-CeO₂ composite anodes supported by carbon black for direct

- methanol fuel cells application,
Journal of the American Ceramic Society, Vol.90(4), pp.1291-1294 (2007).
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