

Name

Dr. Ibram Ganesh

**Designation**

Scientist-E

Educational Qualifications

Ph.D.	Chemistry (Catalysis)	IICT/Osmania	1999
M.Sc.	Physical Chemistry	Osmania	1995

Research areas of interest

Artificial photosynthesis; carbon dioxide reduction; water oxidation; ceramic powder (oxide & non-oxide) synthesis & consolidation.

Ph.D. Thesis title

“Studies on Supported Vanadium Oxide Oxidations Catalysts” (Work was carried out at IICT, Hyderabad; Thesis Supervisor: Dr. B.M. Reddy, Senior Scientist, IICT, Hyderabad).

Research Experience

10-10-1995 to 9-10-1997	Junior Research Fellow IICT, Hyderabad
10-10-1997 to 24-02-1999	Senior Research Fellow IICT, Hyderabad
25-02-1999 to 30-09-2002	Scientist-B ARCI, Hyderabad
1-10-2002 to 30-09-2007	Scientist-C ARCI, Hyderabad
29-04-2007 to 28-04-2008	BOYSCAST Fellow University of Aveiro, Portugal
1-10-2007 to 31-09-2011	Scientist-D

ARCI, Hyderabad

20-08-2012 to 19-08-2013

IUSSTF Fellows
Emory University, USA

01-10-2011 - Till now

Scientist-E
ARCI, Hyderabad

List of journal publications

1. Fabrication and photoelectrochemical characterization of Fe, Co, Ni and Cu-doped TiO₂ thin films
I. Ganesh, R. Dom, P.H. Borse, I. Annapoorna, G. Padmanabham, and G. Sundararajan
Materials Science Forum, 764 (2013) 266-283.
2. Conversion of carbon dioxide into value added chemicals including methanol using chemical potential – a review
Ibram Ganesh
Materials Science Forum, 764 (2013) 1-82.
3. Preparation and characterization of Li-doped ZnO powders for photocatalytic applications
I. Ganesh, P.S.C. Sekhar, G. Padmanabham and G. Sundararajan,
Materials Science Forum, 734 (2013) 90–116.
4. A review on magnesium aluminate (MgAl₂O₄) spinel: synthesis, processing and applications
I. Ganesh
International Materials Reviews, 58 (2) (2013) 63–112.
5. Controlled synthesis of perovskite LaFeO₃ microsphere composed of nanoparticles via self-assembly process and their associated photocatalytic activity
S. Thirumalairajan, K. Girija, I. Ganesh, D. Mangalaraj, C. Viswanathan, A. Balamurugan, N. Ponpandian
Chemical Engineering Journal 209 (2012) 420–428.
6. Influence of Li-doping on structural characteristics and photocatalytic activity of ZnO nano-powder formed in a novel solution pyro-hydrolysis route
I. Ganesh, P.S.C. Sekhar, G. Padmanabham and G. Sundararajan
Applied Surface Science, 259 (2012) 524–537.

7. Preparation and characterization of Co-doped TiO₂ materials for solar light induced current and photocatalytic applications
I. Ganesh, A.K. Gupta, P.P. Kumar, P.S.C. Sekhar, K. Radha, G. Padmanabham and G. Sundararajan
Materials Chemistry and Physics, 135 (2012) 220–234.
8. Preparation and characterization of Ni-doped TiO₂ materials for photocurrent and photocatalytic applications
I. Ganesh, P.P. Kumar, A.K. Gupta, P.S.C. Sekhar, K. Radha, G. Padmanabham and G. Sundararajan
The Scientific World Journal, 2012 (2012) 1–16; article id: 127326.
9. Preparation and characterization of Fe-doped TiO₂ powders for solar light response and photocatalytic applications
I. Ganesh, A.K. Gupta, P.P. Kumar, P.S. Chandra Sekhar, K. Radha, G. Padmanabham and G. Sundararajan
Processing and Applications of Ceramics, 6 (1) (2012) 21–36.
10. Hydrolysis induced aqueous gelcasting: a latest concept for net shape consolidation of ceramics
I. Ganesh
Materials and Manufacturing Processes, 27 (2012) 233–236.
11. Fabrication of near net shape magnesium aluminate (MgAl₂O₄) spinel components *via* aqueous processing
I. Ganesh
Advances in Applied Ceramics, 110 (8) (2011) 496–511.
12. Conversion of carbon dioxide to methanol using solar energy – a brief review
I. Ganesh
Materials Sciences and Applications, 2 (2011) 1407–1415.
13. Development of SiAlON based ceramics for radome applications
I. Ganesh
Processing and Application of Ceramics, 5 (3) (2011) 113–138.
14. Opinion on conversion of carbon dioxide to methanol using solar energy
I. Ganesh
Current Science, 101 (5) (2011) 731–733.
15. Fabrication of magnesium aluminate (MgAl₂O₄) spinel foams
I. Ganesh
Ceramics International, 37 (2011) 2237–2245.

16. Aqueous slip casting of MgAl_2O_4 spinel
I. Ganesh
Bulletin of Materials Science, 34 (2) (2011) 327–335.
17. Hydrolysis induced aqueous gelcasting of MgAl_2O_4 spinel
I. Ganesh, G.J. Reddy, G. Sundararajan, S.M. Olhero, P.M.C. Torres, and J.M.F. Ferreira
Int. J. Appl. Ceram. Technol., 8 (4) (2011) 873–884.
18. A novel route to $\alpha\text{-Si}_4\text{Al}_2\text{O}_2\text{N}_6\text{-SiO}_2$ ceramic composites
I. Ganesh and G. Sundararajan
Advances in Applied Ceramics, 110 (2) (2011) 87–94.
19. Aqueous slip casting and hydrolysis assisted solidification of MgAl_2O_4 spinel
I. Ganesh, G. Sundararajan and J.M.F. Ferreira
Advances in Applied Ceramics, 110 (2011) (2) 63–69.
20. Influence of chemical composition on sintering ability of ZTA composites consolidated from freeze dried granules
I. Ganesh, G. Sundararajan, S.M. Olhero and J.M.F. Ferreira
Ceramics International, 37 (2011) 835–841.
21. Hydrolysis induced aqueous gelcasting of $\alpha\text{-SiAlON-SiO}_2$ ceramic composites: the effect of AlN additive
I. Ganesh and G. Sundararajan
J. Am. Ceram. Soc., 93 (10) (2010) 3180–3189.
22. A novel colloidal processing route to alumina ceramics
I. Ganesh, G. Sundararajan, S.M. Olhero, P.M.C. Torres, and J.M.F. Ferreira
Ceramics International, 36 (2010) 1357–1364.
23. Influence of processing route on micro-structure and mechanical properties of MgAl_2O_4 spinel
I. Ganesh, G.J. Reddy, G. Sundararajan, S.M. Olhero, P.M.C. Torres, and J.M.F. Ferreira
Ceramics International, 36 (2010) 473–482.
24. Near-net shape $\alpha\text{-Si}_4\text{Al}_2\text{O}_2\text{N}_6$ parts by hydrolysis induced aqueous gelcasting process
I. Ganesh
Int. J. Appl. Ceram. Technol., 6 (1) (2009) 89–101.
25. Gelcasting of MgAl_2O_4 spinel powder
I. Ganesh, S.M. Olhero, P.M.C. Torres and J.M.F. Ferreira

- J. Am. Ceram. Soc., 92 (2) (2009) 350–357.
26. Hydrolysis induced aqueous gelcasting for near-net shaping of ZTA ceramic composites
I. Ganesh, S.M. Olhero, P.M.C. Torres, F.J. Alves, and J.M.F. Ferreira
J. Eur. Ceram. Soc., 29 (2009) 1393–1401.
 27. An aqueous colloidal processing of ZTA composites
S.M. Olhero, I. Ganesh, P.M.C. Torres, F.J. Alves, and J.M.F. Ferreira
J. Am. Ceram. Soc., 92 (1) (2009) 9–16.
 28. A phosphoric acid treated AlN powder for aqueous processing of net-shape dense AlN and α -SiAlON parts
I. Ganesh, S.M. Olhero, and J.M.F. Ferreira
Advances in Applied Ceramics, 108 (2) (2009) 111–117.
 29. Densification behavior of combustion derived Al_2O_3 powders
I. Ganesh, P.M.C. Torres, and J.M.F. Ferreira
Ceramics International, 35 (2009) 1173–1179.
 30. Synthesis and characterization of MgAl_2O_4 - ZrO_2 composites
I. Ganesh and J.M.F. Ferreira
Ceramics International, 35 (2009) 259–264.
 31. Influence of raw material type and of the overall chemical composition on phase formation and sintered microstructure of mullite aggregates
I. Ganesh and J.M.F. Ferreira
Ceramics International, 35 (2009) 2007–2015.
 32. Single step synthesis of nano-sized CeO_2 - M_xO_y mixed oxides ($\text{M}_x\text{O}_y = \text{SiO}_2, \text{TiO}_2, \text{ZrO}_2, \text{ and } \text{Al}_2\text{O}_3$) by microwave-induced solution combustion synthesis – characterization and CO oxidation
B.M. Reddy, G.K. Reddy, I. Ganesh and J.M.F. Ferreira
Journal of Materials Science, 44 (2009) 2743–2751.
 33. Microwave induced solution combustion synthesis of highly active nano-crystalline ceria-zirconia for CO oxidation
B.M. Reddy, G.K. Reddy, I. Ganesh and J.M.F. Ferreira
Catalysis Letters, 130 (2009) 227–234.
 34. Characterization and photocatalytic activity of TiO_2 - M_xO_y ($\text{M}_x\text{O}_y = \text{SiO}_2, \text{Al}_2\text{O}_3$ and ZrO_2) mixed oxides synthesized by microwave-induced solution combustion technique
B.M. Reddy, G.K. Reddy, K.N. Rao, I. Ganesh, J.M.F. Ferreira

- Journal of Materials Science, 44 (18) (2009) 4874–4882.
35. Synthesis of nanosized ceria-zirconia solid solutions by a rapid-microwave assisted combustion method
B.M. Reddy, G.K. Reddy, L.H. Reddy, and I. Ganesh
The Open Physical Chemistry Journal, 3 (2009) 24–29.
 36. Surface oxidation and dispersion behavior of phenolic resin coated α -SiC powder in the aqueous medium
I. Ganesh
Advances in Applied Ceramics, 107 (4) (2008) 210–216.
 37. Surface passivation of MgAl_2O_4 spinel powder by chemisorbing H_3PO_4 for an easy aqueous processing
S.M. Olhero, I. Ganesh, P.M.C. Torres, and J.M.F. Ferreira
Langmuir, 24 (17) (2008) 9525–9530.
 38. An aqueous gelcasting process for α - $\text{Si}_4\text{Al}_2\text{O}_2\text{N}_6$ ceramics
I. Ganesh, N. Thiyagarajan, D.C. Jana, Y.R. Mahajan and G. Sundararajan
J. Am. Ceram. Soc., 91 (9) (2008) 3121–3124.
 39. Influence of processing route and SiO_2 on sintering ability, CTE and dielectric constant of α - $\text{Si}_4\text{Al}_2\text{O}_2\text{N}_6$
I. Ganesh, N. Thiyagarajan, D.C. Jana, G. Sundararajan, S.M. Olhero, and J.M.F. Ferreira
Journal of Materials Research, 23 (9) (2008) 2305–2311.
 40. Formation and densification behavior of mullite aggregates from beach sand sillimanite
I. Ganesh, G. Sundararajan, and J.M.F. Ferreira
J. Am. Ceram. Soc., 91 (8) (2008) 2464–2468.
 41. Formation and densification behaviour of MgAl_2O_4 spinel: the influence of processing parameters
I. Ganesh, S.M. Olhero, A.H. Rebelo, and J.M.F. Ferreira
J. Am. Ceram. Soc., 91 (6) (2008) 1905–1911.
 42. A non-aqueous processing route for phosphate-protection of AlN powder against hydrolysis
I. Ganesh, N. Thiyagarajan, G. Sundararajan, S.M. Olhero, and J.M.F. Ferreira
J. Eur. Ceram. Soc., 28 (2008) 2281–2288.
 43. Chemisorption of phosphoric acid and surface characterization of as passivated AlN powder against hydrolysis

- I. Ganesh, S.M. Olhero, A.A. Branca, M.R. Correia, G. Sundararajan, and J.M.F. Ferreira
Langmuir, 24 (10) (2008) 5359–5365.
44. An aqueous gelcasting route to dense α - $\text{Si}_4\text{Al}_2\text{O}_2\text{N}_6\text{-}0.5\text{SiO}_2$ ceramics
I. Ganesh, N. Thiyagarajan, D.C. Jana, P. Barik, and G. Sundararajan
J. Am. Ceram. Soc., 91 (5) (2008) 1566–1571.
45. Influence of chemical composition and Y_2O_3 on sinterability, dielectric constant and CTE of α - SiAlON
I. Ganesh, N. Thiyagarajan, D.C. Jana, Y.R. Mahajan and G. Sundararajan
J. Am. Ceram. Soc., 91 (1) (2008) 115–120.
46. Dense α - SiAlONs consolidated by a modified hydrolysis assisted solidification route
I. Ganesh, N. Thiyagarajan, D.C. Jana, P. Barik, G. Sundararajan and J.M.F. Ferreira
J. Eur. Ceram. Soc., 28 (4) (2008) 879–885.
47. Influence of phase composition on sintered microstructure of combustion synthesized oxides
I. Ganesh and J.M.F. Ferreira
Research Letters in Materials Science, Article ID 91376 (2007) 1–5.
48. Synthesis of mono-phasic $\text{Ce}_{0.5}\text{Zr}_{0.5}\text{O}_2$ solid solution by microwave-induced combustion method
B.M. Reddy, G.K. Reddy, A. Khan, and I. Ganesh
Journal of Materials Science, 42 (10) (2007) 3557–3563.
49. Silica supported transition metal-based bimetallic catalysts for vapour phase selective hydrogenation of furfuraldehyde
B.M. Reddy, G.K. Reddy, K.N. Rao, A. Khan, and I. Ganesh
Journal of Molecular Catalysis A: Chemical 265 (1–2) (2007) 276–282.
50. An aqueous gelcasting process for sintered silicon carbide ceramics
I. Ganesh, D.C. Jana, Shamshad Shaik, and N. Thiyagarajan
J. Am. Ceram. Soc., 89 (10) (2006) 3056–3064.
51. Vapour phase hydrogenation of cinnamaldehyde over silica supported transition metal-based bimetallic catalysts
B.M. Reddy, G.M. Kumar, I. Ganesh, and A. Khan
Journal of Molecular Catalysis A: Chemical 247 (1–2) (2006) 80–87.

52. Formation and densification behavior of magnesium aluminate spinel: the influence of CaO and moisture in the precursors
I. Ganesh, K.A. Teja, N. Thiyagarajan, R. Johnson, and B.M. Reddy
J. Am. Ceram. Soc., 88 (10) (2005) 2752-2761.
53. Microwave assisted combustion synthesis of nanocrystalline $MgAl_2O_4$ spinel powders
I. Ganesh, R. Johnson, Y.R. Mahajan, S.S. Madavendra and B.M. Reddy
Ceramics International, 31 (1) (2005) 67-74.
54. Microwave induced combustion synthesis of nanocrystalline TiO_2 - SiO_2 binary oxides
I. Ganesh, R. Johnson, Y.R. Mahajan, A. Khan, S. Madhavendra, and B.M. Reddy
Journal of Materials Research, 19 (4) (2004) 1015-1023.
55. Microwave assisted solid-state reaction synthesis of $MgAl_2O_4$ spinel powders
I. Ganesh, B. Srinivas, R. Johnson, B.P. Saha and Y.R. Mahajan
J. Eur. Ceram. Soc., 24 (2) (2004) 201-207.
56. Stabilization of nanosized titania anatase for high temperature catalytic applications
B.M. Reddy, I. Ganesh, and A. Khan
Journal of Molecular Catalysis A: Chemical, 223 (1-2) (2004) 295-304.
57. Rheometric studies on cordierite-mullite precursor mix for extrusion of honeycomb structures
Seetu Chacko, Roy Johnson, B. P. Saha, I. Ganesh, M. Vijaykumar and Y. R. Mahajan
Transactions of the Indian Ceramic Society, 63 (2) (2004) 119-123.
58. Studies on energy absorption characteristics of cordierite-mullite honeycombs
Roy Johnson, Vipin Jain, S.V. Kamat, I. Ganesh, B.P. Saha and Y.R. Mahajan
Journal of Advanced Materials, 35 (3) (2003) 3-8.
59. Effect of preparation method on sinterability and properties of nanocrystalline $MgAl_2O_4$ and ZrO_2 - $MgAl_2O_4$ materials
I. Ganesh, B. Srinivas, R. Johnson, G.V.N. Rao, and Y.R. Mahajan
British Ceramic Transactions, 102 (3) (2003) 119-128.
60. Preparation and characterization of In_2O_3 - TiO_2 and V_2O_5/In_2O_3 - TiO_2 composite oxides for catalytic applications
B.M. Reddy, I. Ganesh and A. Khan
Applied Catalysis A: General, 248 (1-2) (2003) 169-180.

61. Solid state reactions of cordierite precursor oxides and effect of substitution of CaO on the thermal expansion behaviour of cordierite honeycomb structures
R. Johnson, I. Ganesh, B.P. Saha, G.V.N. Rao and Y.R. Mahajan
Journal of Materials Science, 38 (2003) 2953–2961.
62. Effect of rubber encapsulation on the comparative mechanical behavior of ceramic honeycombs with foams
Vipin Jain, R. Johnson, I. Ganesh, B.P. Saha and Y.R. Mahajan
Materials Science and Engineering A, 347 (2003) 109–122.
63. Effect of fuel type on morphology and reactivity of combustion synthesized $MgAl_2O_4$ powders
I. Ganesh, B. Srinivas, R. Johnson, B.P. Saha, and Y.R. Mahajan
British Ceramic Transactions, 101 (6) (2002) 247–254.
64. An efficient $MgAl_2O_4$ spinel additive for improved slag erosion and penetration resistance of high- Al_2O_3 and MgO-C refractories
I. Ganesh, S. Bhattacharjee, B.P. Saha, R. Johnson, K. Rajeshwari, R. Sengupta, M.V. Ramana Rao, and Y.R. Mahajan
Ceramics International, 28 (3) (2002) 245–253.
65. Surface characterization of Ga_2O_3 - TiO_2 and V_2O_5 / Ga_2O_3 - TiO_2 Catalysts
B.M. Reddy, I. Ganesh, E.P. Reddy, A. Fernández, P.G. Smirniotis
Journal of Physical Chemistry B, 105 (2001) 6227–6235.
66. A new sintering aid for magnesium aluminate spinel
I. Ganesh, S. Bhattacharjee, B. P. Saha, R. Johnson, and Y. R. Mahajan
Ceramics International, 27 (7) (2001) 773–779.
67. Thermal anisotropy in sintered cordierite monoliths
B.P. Saha, Roy Johnson, I. Ganesh, G.V.N. Rao, S. Bhattacharjee, and Y.R. Mahajan
Materials Chemistry and Physics, 67 (1–3) (2001) 140–145.
68. Characterization of La_2O_3 - TiO_2 and V_2O_5 / La_2O_3 - TiO_2 catalyst and their activity for synthesis of 2,6-dimethylphenol
B.M. Reddy and I. Ganesh
Journal of Molecular Catalysis A: Chemical, 169 (2001) 207–223.
69. Vapour phase synthesis of quinoline from aniline and glycerol over mixed oxide catalysts
B.M. Reddy and I. Ganesh
Journal of Molecular Catalysis A: Chemical, 151 (2000) 289–293.

70. Ceramic based catalytic converter for diesel vehicles
R. Johnson, B.P. Saha, I. Ganesh, V. Mahender, S. Bhattacharjee, Y. R. Mahajan, M.M.K. Khaja
Transactions of the Indian Ceramic Society, 59 (3) (2000) 93–95.
71. Design of stable and reactive vanadium oxide catalysts supported on binary oxides
B.M. Reddy, I. Ganesh and B. Chowdhury
Catalysis Today, 49 (1999) 115–121.
72. Development of indigenous thin walled honeycomb substrates for catalytic converters
R. Johnson, B.P. Saha, I. Ganesh, V. Mahender, D.S. Reddy, S. Bhattacharjee, Y.R. Mahajan and M.M.K. Khaja
Transactions of Powder Metallurgy Association of India, 26 (1999) 230–232.
73. Characterization of V_2O_5/TiO_2-ZrO_2 catalysts by XPS and other techniques
B.M. Reddy, B. Chowdhury, I. Ganesh, E.P. Reddy, T.C. Rojas and A. Fernandez
Journal of Physical Chemistry, 102 (1998) 10176–10182.
74. Aniline synthesis from cyclohexanol and ammonia over mixed oxide catalysts
B. Manohar, I. Ganesh and B.M. Reddy
Journal of Molecular Catalysis A: Chemical, 129 (1998) L5–L9.
75. Influence of V_2O_5 and Nb_2O_5 on thermal stability of TiO_2 - anatase
B.M. Reddy, I. Ganesh and V. R. Reddy
Journal of Materials Science Letters, 17 (1998) 1913–1915.
76. Vapour phase selective oxidation of 4-methylanisole to anisaldehyde over $V_2O_5/Ga_2O_3-TiO_2$ catalyst
B.M. Reddy, I. Ganesh and B. Chowdhury
Chemistry Letters, (1997) 1145–1146.
77. Vapour phase synthesis of isobutyraldehyde from methanol and ethanol over mixed oxide supported vanadium oxide catalysts
B.M. Reddy, E.P. Reddy and I. Ganesh
Research on Chemical Intermediates, 23 (1997) 703–713.
78. Selective oxidation of p-methoxytoluene to p-methoxybenzaldehyde over supported vanadium oxide catalysts
B.M. Reddy, E.P. Reddy, I. Ganesh and M.V. Kumar
Indian Journal of Chemical Technology, 4 (1997) 256–258.
79. Study of dispersion and thermal stability of V_2O_5/TiO_2-SiO_2 catalysts by XPS and other techniques

B.M. Reddy, I. Ganesh and E.P. Reddy
Journal of Physical Chemistry, 101 (1997) 1769–1774.

Patents (Indian) Granted

1. An improved method for making honeycomb extrusion die and a process for producing ceramic honeycomb structures using the said die
Iouri Fomichev, I. Ganesh, Roy Johnson, B.P. Saha, N. Thiyagarajan, Y.R. Mahajan, and V. Mahender
Indian Patent No. 198045, A1 20070223; 13th January 2006.
2. A process for the production of dense magnesium aluminate spinel grains
I. Ganesh, Subir Bhattacharjee, B.P. Saha, Roy Johnson, and Y.R. Mahajan
Indian Patent No. 198208, A1 20070223; 16th February 2006.
3. An improved process for the preparation of magnesium aluminate spinel grains
M.C.S. Rao, Y.R. Mahajan, S. Bhattacharjee, R. Johnson, B.P. Saha and I. Ganesh,
Indian Patent No. 200272, A1 20060707, 2nd May 2006.
4. A process for preparing ceramic crucibles
B.P. Saha, Y.R. Mahajan, S. Bhattacharjee, I. Ganesh and R. Johnson
Indian Patent No. 207700, IN 2000MA00806 A 20060922; 20th June 2007.
5. Improved additive composition useful for the preparation of alumina based abrasion resistant material having improved wear properties, and methods for their preparation
B.P. Saha, Y.R. Mahajan, S. Bhattacharjee, I. Ganesh and R. Johnson
Indian Patent No. 198068, A1 20060707; 16th February 2006.
6. Preparation of a mixed oxide catalyst useful for condensation reactions
B.M. Reddy, I. Ganesh, B. Chowdhury and V.R. Reddy
Patent Granted India: PT-209; IN 2000DE00771; A 20071005; 12th April 2002.
7. An improved process for the preparation of substituted benzaldehydes *via* novel catalyst
B.M. Reddy, I. Ganesh, B. Chowdhury and V.R. Reddy
Indian patent # PT-208; IN 1999DE00807 (2005); A 20051223; 12th April 2002.
8. Process for the preparation of a catalyst for oxidation reactions
B.M. Reddy, I. Ganesh, B. Chowdhury and V.R. Reddy.
Indian patent # N226261-B; IN 1999DE00809 A 20051104, 24th July 2004.

9. Process for the preparation of quinolines from aromatic amines and di/trihydric alcohols in the presence of supported mixed metal oxide catalysts
B.M. Reddy, I. Ganesh, B. Chowdhury and V.R. Reddy.
Indian patent # IN193539 (2004); IN 193539 A1 20040724, 24th July 2004.

Papers published in Peer Reviewed international Conference Proceedings

1. Glimpses of ceramics – ARCI's perspectives
N. Thiyagarajan, R. Johnson, B.P. Saha, Y.S. Rao, S. Kumar, I. Ganesh and Y.R. Mahajan
Proceedings of US-Japan Workshop (2002) on "Low Cost Production of Ceramics and Related Materials", Osaka, Japan, pp. 49 – 57, (2002).
2. One step synthesis of isobutyraldehyde from ethanol and methanol over binary oxide supported vanadium oxide catalysts
I. Ganesh, B. Chowdhury, and B.M. Reddy
Recent Trends in Catalysis, (Eds., V. Murugesan, B. Arabindoo and M. Palanichamy), Narosa Publishing House, New Delhi, 1999, pp. 136□141.

Professional awards received and presentations made at international conferences

1. Received "Best Poster Award" for the paper entitled "Mechanical behaviour comparison of Cordierite-Mullite honeycombs with foams" authored by V. Jain, R. Johnson, I. Ganesh, and Y.R. Mahajan: Presented at the 13th Annual General Meeting of the Materials Research Society of India held at Hyderabad during February 7□9, 2002.
2. Received "Best Poster Award" for the paper entitled "Rheometric studies on cordierite-mullite precursor mix for extrusion of honeycomb structures" authored by S. Chacko, R. Johnson, I. Ganesh, Y.R. Mahajan, and M. Vijayakumar: Presented at the 66th Annual Session of the Indian Ceramic Society held at Kolkata during December 7□9, 2002.
3. Presented a paper entitled "Microwave Assisted Solis-State Synthesis of MgAl₂O₄ Spinel Powder" at the 8th International Conference on Ceramic Processing and Science (8th ICCPS), Hamburg, Germany held during 2nd-5th September 2002.

Research Projects (successfully) completed

1. Project Title: Development and Optimization of Gelcasting Process for Near-Net Complex-Shaped SiC, Si₃N₄ and Si₃N₄ Bonded SiC Structural Parts.
 Ref: No. SR/S3/RM/050/2003-SERC Eng.)
 Sponsoring agency: Science and Engineering research Council (SERC) Scheme – Robotics and Manufacturing), Department of Science and Technology (DST).
 Duration of Project: two years
 Project Status: Project started in 2003.
 Investigators: Dr. I. Ganesh – Principal Investigator
 Dr. N. Thiyagarajan – Co-Investigator
 Dr. Roy Johnson – Co-Investigator

2. Project Title: Development and Process Optimization of Ceramic Based Honeycomb Structures
 Ref: (DST No. III.5 (109) / 2000-ET)
 Sponsoring agency: Science and Engineering research Council (SERC) Scheme – Robotics and Manufacturing), Department of Science and Technology (DST).
 Duration of Project: two years
 Project Status: Project has been successfully completed in 2003.
 Investigators: Dr. Roy Johnson – Principal Investigator
 Dr. I. Ganesh – Co-Investigator
 Mr. B.P. Saha – Co-Investigator

Awards and honors

1. University Gold Medal in M Sc course, 1995 (Osmania University).
2. BOYSCAST Fellowship (SR/BY/E-04/06) during 29-04-2007 to 28-04-2008 from the Department of Science and Technology (DST), Government of India during 1st May 2007-30th April 2008.
3. IUSSTF (Indo-US Science & Technology Forum) Fellowship (IUSSTF Fellowship/2012/Ibram Ganesh/7-2012; dated: 14th March 2012) to work with Prof. C.L. Hill (Goodrich C. White Professor) at Emory University, Atlanta, GA, USA.
4. UGC Junior and Senior Research Fellowships during Ph D work, 1995-1999.
5. A.P. State Merit Scholarship for obtaining first rank in M Sc course, 1995.
6. Selected for International Post-Doctoral Fellowship (2002-04) offered by Spanish Central Administration, Spain.

7. Received an invitation to write a page on “Hydrolysis Induced Aqueous Gelcasting” topic in SciTopic, which is a free, wiki-like service, and an excellent place to offer your topical expertise to the scientific community and gain immediate feedback, based on a paper published in Ceramics International [Ref.: 36 (2010) 1357-1364, title: “a novel colloidal processing route to alumina ceramics” by I. Ganesh, G. Sundararajan, S.M. Olhero, P.M.C. Torres, and J.M.F. Ferreira].
8. Serving Editorial board as a member for ISRN (International Scholarly Research Network) Chemical Engineering Open Access Journal, Hindawi Publishing Corporation, USA.
9. Serving Editorial board as a member for Indian Journal of Materials Science, Hindawi Publishing Corporation, USA.

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