

## CURRICULUM VITAE

### 1. PERSONAL DATA

Name : AHMAD FAUZI MOHD NOOR

Nationality : MALAYSIAN

Current Position: PROFESSOR

Qualifications : Ph.D-Ceramics, University of Sheffield, U.K. (1995)  
M.Sc.- Ceramics, University of Leeds, U.K. (1987)  
B.Applied Sc.-Universiti Sains Malaysia (1985)

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### 2. RESEARCH PROJECTS

I. Completed Research Projects for the last three years

No.	Title of research	Grant's Name	Duration	Start Date	End Date
1	Nano-sized zirconia Reinforced Hydroxyapatite BioComposite	AUNSEEDNet-JICA	2 YEARS	2006	2008
2	Mechanism and kinetics of formation of Cu <sub>2</sub> O nanocrystals	FRGS	3 YEARS	2007	2010
3	Synthesis and Characterization of Carbonated Hydroxyapatite	AUNSEED-net	2 YEARS	2007	2009
4	Development of Porous CHA with new Sintering Approach	AUNSEEdnet	2 years	2010	2012

## II. Ongoing Research Projects for the last three years

No.	Title of research	Grant's Name	Duration	Start Date	End Date
1	Development of rare earth substituted in Mg-Mn Ferrite for microwave application.	E-Science Fund	3 YEARS	2008	2011
2	Development of Carbonated Hydroxyapatite/ Poly-C-lactide biocomposite	Research University (RU) Grant	2 YEARS	2009	2011
3	Synthesis of nanocomposite Cu <sub>2</sub> O by chemical reduction method	Research University (RU) Grant	2 YEARS	2010	2012

### 3. RESEARCH PUBLICATIONS for the last 5 years (include journals, books, chapter in books etc.)

1. **Ahmad Fauzi, M. N.**, Uday, M. B., Zuhailawati, H., Ismail, A. B., *Microstructure and mechanical properties of alumina-6061 aluminum alloy joined by friction welding*. Materials & Design, 2010. **31**(2): p. 670-676.
2. Uday, M. B., **Ahmad Fauzi, M.N.**, Zuhailawati, H., Ismail, AB, *Advances in friction welding process: a review*. Science and Technology of Welding & Joining, 2010. **15**(7): p. 534-558.
3. Uday, M. B., **Ahmad Fauzi, M. N.**, Zuhailawati, H., Ismail, A. B., Evaluation of interfacial bonding in dissimilar materials of YSZ-Alumina composites to 6061 aluminium alloy using friction welding. Materials Science and Engineering: A, 2010. In Press, Accepted Manuscript.
4. Yanny Marlina B. I., **Ahmad Fauzi M. N.**, "Effect of a novel approach of sintering on physical properties of carbonated hydroxyapatite", Journal of Materials Science and Engineering, USA, 2010, ISSN: 1934-8959.
5. Nilar Lwin, **Ahmad Fauzi M. N.**, Srimala Sreekantan, Radzali Othman, Aye Aye Thant (2010), 2010, Physical properties characterization of Fe-deficient Mg<sub>0.9</sub>Mn<sub>0.1</sub>Fe<sub>2-x</sub>O<sub>4</sub> soft ferrite by citrate precursor method, (Accepted) J. Maters Sci. and Eng. ,USA.
6. Araoyinbo, A. O., **Noor, A. F. M.**, Sreekantan, S. & Aziz, A., "A novel process to produce nano porous aluminum oxide using alkaline sodium phosphate electrolyte. Asian Journal of Materials Sciences, 2010, **2**(2):63-68.
7. Araoyinbo, A. O., **Noor, A. F. M.**, Sreekantan, S. & Aziz, A., " Preparation and characterization of thin film TiO<sub>2</sub> dip coated on non-conductive substrate prepared from tetraethyl orthotitanate precursor. Asian Journal of Applied Sciences, 2010, **3**(1):35-43.
8. Araoyinbo, A. O., **Noor, A. F. M.**, Sreekantan, S. & Aziz, A., "A novel process to produce nano porous aluminum oxide using titration technique to prepare the neutral electrolyte. Journal of Non-Crystalline Solid, 2010, **356**(20-22):1057-1060.
9. Araoyinbo, A. O., **Noor, A. F. M.**, Sreekantan, S. & Aziz, A., " Voltage effect on electrochemical anodization of aluminum at ambient temperature", International Journal of Mechanical and Materials Engineering, 2010, **5**(1):53-58.
10. Umar Al-Amani, S. Srimala, **M. N. Ahmad Fauzi**, A.R. Khairunisak, Low-temperature combustion synthesis of Bi<sub>4</sub>Ti<sub>3</sub>O<sub>12</sub> plate-like structure and some of its characterization, Malaysian Journal of Microscopy. 2010. Volume 6.

11. Chong, W.L., **Ahmad-Fauzi, M.N.**, Radzali, O., Effect of synthesis temperature on formation of carbonated hydroxyapatite. *Malaysian Journal Of Microscopy*, 2010. Volume 6.
12. K. Chia Ching, B. I. Yanny-Marliana and **M. N. Ahmad-Fauzi**, "Dropwise and Direct Pouring Techniques in Synthesis of Carbonated Hydroxyapatite", *Malaysian Journal Of Microscopy (MJM)* Volume 6, 2010.
13. Uday, M.B., **M. N. Ahmad Fauzi**, Zuhailawati, H., Ismail, A. B., Evaluation of interfacial bonding in dissimilar materials of YSZ-Alumina composites to 6061 aluminium alloy using friction welding. *Materials Science and Engineering: A*, 2011.528(25):p.1348-1359.
14. Uday, M.B., **Ahmad Fauzi, M. N.**, Zuhailawati, H., Ismail, A. B., Effect of welding speed on mechanical strength of friction welded joint of YSZ-alumina composite and 6061 aluminum alloy. *Materials Science and Engineering: A*, 2011. 528(13-14): p. 4753-4760.
15. Uday, M.B., **Ahmad Fauzi, M. N.**, Zuhailawati, H., Ismail, A.B, Effect of Deformation Behavior on the Grain Size of the 6061 Aluminum Alloy Joint with Alumina by Friction Welding. *Applied Mechanics and Materials*, 2011. 83: p. 97-103.
16. Nilar Lwin, **Ahmad Fauzi M.N**, Srimala Sreekantan, Radzali Othman, Aye Aye Thant (2011) "Physical properties characterization of Fe-deficient  $Mg_{0.9}Mn_{0.1}Fe_{2-x}O_4$  soft ferrite by citrate precursor method" *Journal of Materials Science and Engineering, USA*, Vol 5, No.8, p 506-511, ISSN: 1934-8959.
17. Nilar Lwin, **Ahmad Fauzi M.N**, Srimala Sreekantan, Radzali Othman, Aye Aye Thant (2011) "Effect of Fe deficiency on structural and magnetic properties in low temperature synthesized Mg-Mn ferrite" *International journal of nanoscience*, Vol 10, No.6, ISSN: 0219-581x.
18. Mun Teng Soo, Kuan Yew Cheong, **Ahmad Fauzi Mohd Noor**, Functional room temperature metal (Al or Pd)-ZrO<sub>2</sub> (smooth or porous surface)-Si MOS capacitor O<sub>2</sub> sensor, *Microelectronics International*, 28, 2011.
19. Mun Teng Soo, Go Kawamura, Hiroyuki Muto, Kuan Yew Cheong, Zainovia Lockman, **Ahmad Fauzi Mohd Noor**, Atsunori Matsuda, Design and synthesis of mesoporous ZrO<sub>2</sub> thin films using surfactant Pluronic P123 via sol-gel technique, *Journal of the Ceramic Society of Japan*, 119, 2011.
20. Yanny-Marliana Baba Ismail and **Ahmad-Fauzi Mohd Noor**, Effect of a Novel Approach of Sintering on Physical Properties of Carbonated Hydroxyapatite, *Journal of Materials Science and Engineering B 1* (2011) 157-163.
21. Warapong Krengvirat, Srimala Sreekantan, **Ahmad-Fauzi M. N.**, Charoen Chinwanitcharoen, Atsunori Matsuda, Fuel-free low-temperature self-combustion synthesis and characterization of praseodymium-substituted bismuth titanate ceramics, *Journal of the Ceramic Society of Japan* (2012) 120, 1398 p.58-63, DOI doi:10.2109/jcersj2.120.58.
22. Warapong Krengvirat, Srimala Sreekantan, **Ahmad-Fauzi M. N.**, Charoen Chinwanitcharoen, Hiroyuki Muto, Atsunori Matsuda, Influences of pH on the structure, morphology and dielectric properties of bismuth titanate ceramics produced by a low-temperature, self-combustion synthesis without an additional fuel agent, *Ceramics International* (2012) 38 p.3001-3009, DOI: 10.1016/j.ceramint.2011.11.081
23. Warapong Krengvirat, Srimala Sreekantan, **Ahmad-Fauzi M. N.**, Atsunori Matsuda, Charoen Chinwanitcharoen, Control of the structural, morphological and dielectric properties of praseodymium-substituted bismuth

- titanate ceramics prepared by a low-temperature self-combustion synthesis without an additional fuel agent, *Journal of Materials Science* (2012) 47, 4019-4027, DOI: 10.1007/s10853-012-6255-z
24. Warapong Krengvirat, Srimala Sreekantan, **Ahmad-Fauzi M. N.**, Nobuaki Negishi, Song Yul Oh, Go Kawamura, Hiroyuki Muto and Atsunori Matsuda, Carbon-incorporated TiO<sub>2</sub> photoelectrodes prepared via rapid-anodic oxidation for efficient visible-light hydrogen generation, *International Journal of Hydrogen Energy*, (2012) 37, 10046-10056, DOI: 10.1016/j.ijhydene.2012.04.004
  25. Umar Al-Amani., Srimala Sreekantan, **Ahmad Fauzi Mohd Noor**, Khairunisak Abd. Razak, Satoshi Tanaka, & Keizo Uematsu. (2012). Structural and Electrical Properties of Lanthanide Substituted-Bismuth Titanate Prepared by Low-Temperature Combustion Synthesis. *Advanced Materials Research* Vol. 545 (2012) pp 279-284.
  26. Umar Al-Amani, Srimala Sreekantan, **Ahmad Fauzi Mohd Noor**, Khairunisak Abd. Razak. (2013). Single step combustion synthesis for the preparation of bismuth titanate ceramics for potential applications, *Advanced Materials Research* Vol. 620 (2013) pp 429-434.
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  28. Umar Al-Amani, S. Sreekantan, **M. N. Ahmad Fauzi**, A.R. Khairunisak, K. Warapong, *Soft Combustion Technique: Solution Combustion Synthesis and Low-Temperature Combustion Synthesis; to prepare Bi<sub>4</sub>Ti<sub>3</sub>O<sub>12</sub> Powders and Bulk Ceramics*, *Science of Sintering*, 44 (2012) 211-221.
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  32. S. C. M. Calyn, M. Nazarov, A. Nor Nazida, M. N. Ahmad-Fauzi “Combustion Synthesis and Characterization of Nanosized Powder SrAl<sub>2</sub>O<sub>4</sub>:Eu<sup>2+</sup> Phosphor”, *J. Mold. Phys Sci*, (11), N1-2, 2012
  33. M. Nazarov, A. Nor Nazida, A. Azizan, K. Shah Rizal, S. C. M. Calyn, **M. N. Ahmad-Fauzi** “low temperatures luminescence of nanosized SrAl<sub>2</sub>O<sub>4</sub>:Eu<sup>2+</sup>” *J. Mold. Phys Sci*, (11), N1-2, 2012.
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  35. M. G. Brik, **M. N. Ahmad-Fauzi**, L. Kulyuk, S. Anghel, K. Sushkevich, G. Boulon “Comparative first-principle analysis of un-doped and V<sup>3+</sup> doped” *J. of Luminescence*, (132), 2012,2489-2494.

36. I. D. Arrellano, M. V. Nazarov, J. A. Cortes, **Ahmad-Fauzi M. N.** "Luminescence of yttrium niobium tantalite doubly activated by europium and/or terbium under X-ray and electron beam excitation", *J. of Luminescence*, (132), 2012, 2479-2483.
37. D. Spassky, V. Mikhailin, M. Nazarov, M. N. Ahmad Fauzi, A. Zhdanov, "Luminescence and energy transfer mechanisms in CaWO<sub>4</sub> single crystals", *J. of Luminescence*, (132), 2012, 2753-2762.
38. Mohd Hasmizam Razali, **Ahmad Fauzi Mohd Noor**, Abdul Rhman Mohamed, Srimala Sreekantan, "Morphological and structural studies of titanate and titania nanostructured materials obtained after heat treatments of hydrothermally produced layered titanate", *J. of Nanomaterials*, (2012), 962073, 10 pages.
39. Umar Al-Amani Azlan, Warapong Krengvirat, **Ahmad Fauzi Mohd Noor**, Khairunisak Abd. Razak and Srimala Sreekantan (2012). Sintering and Characterization of Rare Earth Doped Bismuth Titanate Ceramics Prepared by Soft Combustion Synthesis, *Sintering of Ceramics - New Emerging Techniques*, Dr. Arunachalam Lakshmanan (Ed.), ISBN: 978-953-51-0017-1, InTech., p. 357-378.
40. Umar Al-Amani, S. Sreekantan, **M. N. Ahmad Fauzi**, K. A. Razak. (2012). Current progress in synthesis and properties of doped bismuth titanate for advanced electronic applications, *Bismuth: Characteristics, Production and Applications*, Kamakhya Prasad Ghatak and Sitangshu Bhattacharya (Ed.), ISBN 978-1-61470-640-3, Nova Science Publishers, Inc., p. 123-145.
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42. M. Nazarov, M.G.Brik, D.Spassky, B.Tsukerblat, A. Nor Nazida, **M. N. Ahmad-Fauzi**, Structural and electronic properties of SrAl<sub>2</sub>O<sub>4</sub>:Eu<sup>2+</sup> from density functional theory calculations, 2013, *J. of Alloys and Compounds*, Vol.(573), PP. 6-10.
43. Umar Al-Amani, Srimala Sreekantan, **Ahmad Fauzi Mohd Noor**, Khairunisak Abd. Razak. (2013). Single step combustion synthesis for the preparation of bismuth titanate ceramics for potential applications, *Advanced Materials Research* Vol. 620 (2013) pp 429-434.
44. Chia Ching Kee, Hanafi Ismail, **Ahmad Fauzi Mohd Noor**, Effect of Synthesis Technique and Carbonate Content on the Crystallinity and Morphology of Carbonated Hydroxyapatite, *Journal of Materials Science and Technology*, Vol 29(8), 2013 , PP 761-764.
45. Sunarso, **Ahmad Fauzi Mohd Noor**, Shah Rizal Kasim, Radzali Othman, Ika Dewi Ana, Kunio Ishikawa, *Journal of Biomaterials and Nanobiotechnology (JBNT)*, Synthesis of Biphasic Calcium Phosphate by Hydrothermal Route and Conversion to Porous Sintered Scaffold Vol.4 No.3, July 2013.
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- 2013, Friction and Wear Research, Vol.1,No.2, PP.17-23.
48. Mohd Hasmizam Razali, **Ahmad Fauzi Mohd Noor**, Abdul Rahman Mohamed and Srimala Sreekantan (2013), Morphological, structural and optical properties study of transition metal ions doped TiO<sub>2</sub> nanotubes prepared by hydrothermal method. International Journal of Materials, Mechanics and Manufacturing, 1(4), pp 314-318.
  49. Mohd Hasmizam Razali, **Ahmad Fauzi Mohd Noor**, Abdul Rahman Mohamed, Srimala Sreekantan,(2013), Physical properties study of TiO<sub>2</sub> nanoparticle synthesis via hydrothermal method using TiO<sub>2</sub> microparticles as precursor. Advanced Materials Research, 772, pp 365-370.
  50. Umar Al-Amani, S. Sreekantan, **M. N. Ahmad Fauzi**, A.R. Khairunisak, Rare-earth substitution in Bi<sub>4</sub>Ti<sub>3</sub>O<sub>12</sub> system for potential application, The 5th AUN/SEED-Net Regional Conference on Materials & The 5th Regional Conference on Natural Resources and Materials, 22-23 January 2013, Park Royal Penang Resort Hotel Batu Ferringhi, Penang Malaysia.
  51. Krengvirat, W., Sreekantan, S.,**M. N. Ahmad Fauzi**, Kawamura, G., Muto, H., Matsuda, A., "Single-step growth of carbon and potassium-embedded TiO<sub>2</sub> nanotube arrays for efficient photoelectrochemical hydrogen generation", Electrochimica Acta, 2013, Vol.89(1), PP. 585-593.
  52. Krengvirat, W., Sreekantan, S., **M. N. Ahmad Fauzi**, Negishi, N., Kawamura, G., Muto, H., Matsuda, A., Low-temperature crystallization of TiO<sub>2</sub> nanotube arrays via hot water treatment and their photocatalytic properties under visible-light irradiation, 2013, Materials Chemistry and Physics, Vol.137(3), PP. 991-998.
  53. Thong Leng Lim, Mihail Nazarov, Tiem Leong Yoon, Lay Chen Low, **M. N. Ahmad Fauzi**, X-ray diffraction experiments, luminescence measurements and first-principles GGA + U calculations on YTaO<sub>4</sub>, Computational Materials Science, 2013, Vol (77), PP. 13-18.
  54. Nilar Lwin, **Ahmad Fauzi M.N**, Srimala Sreekantan, Radzali Othman, Widad Ismail, (2013) New material miniaturization for microstrip antenna using Mg-Mn ferrite substrate. Collaborative Conference on 3D & Materials Research. 24th-28th June 2013. Ramada Plaza Jeju Hotel, Jeju, South Korea.
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  58. Thong Leng Lim<sup>1</sup>, Mihail Nazarov<sup>2</sup>, Tiem Leong Yoon<sup>3</sup>, Lay Chen Low<sup>4</sup> and M N Ahmad Fauzi, First-principles LDA+U calculations and luminescence study of YNbO<sub>4</sub>, Phys. Scr. 89 (2014) 095102 (7pp), [doi:10.1088/0031-8949/89/9/095102](https://doi.org/10.1088/0031-8949/89/9/095102)
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  62. C.K. Wong<sup>1</sup>, S.Y. Pung<sup>1,\*</sup>, W.H. Ng<sup>2</sup>, M.N. Ahmad Fauzi<sup>1</sup>, S.R.Kasim<sup>1</sup>, *MicroSoM*, December 2013, p.8-11
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