

RESUME: ASSOC. PROF. DR.SRIMALA SREEKANTAN

1. PERSONAL DATA:

Name: Srimala Sreekantan
IC No: 740301-01-6078
Nationality: Malaysian
Current Position: Associate Professor
Qualifications: PhD
Field of Specialization: Materials Engineering
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2. RESEARCH AREA

Current Research Areas: Nanostructured Materials and Advanced Materials for pollution management (environment), energy and biomedical field

No	Title	Year
1	Nanomaterials (nanotubes, nanorods, nanoparticles of various oxides) for environmental pollution management, biomedical and green energy application	Since 2006
2	Advance Dielectric Materials for Antenna Application	Since 2004

3. VISITING LECTURER

No	Position/Field of Work	Year
1	Visiting lecturer of collaborative research project in Tokyo Institute of Technology (TIT), Japan	21 st -27 th Oct 2007
2	Visiting lecturer of collaborative research project in Nagaoka University of Technology (NUT), Japan	22 nd -25 th Jan 2008
3	Visiting lecturer for project to form a hub with Pacific Rim Countries in Nagaoka University of Technology (NUT), Japan	1 st -7 th Aug 2012

4. RESEARCH GRANTS

International

- Malaysian for Women in Science Fellowship 2007 by L'Oreal Sdn Bhd-1
- AUN-SEED-Net Grant, Japan-3
- Nippon Sheet Glass Research Grant, Japan-1

National

- FRGS Grant, MOHE-2
- ERGS, MOHE-1
- LRGS, MOHE-1
- e-Science Fund, MOSTI-2
- KPT Grant, Malaysia-2

- BBraun Funding-1

University

- USM Incentive Grant-1
- USM Short Term Grant-3
- USM-RU-PRGS Grant-4
- USM-RU Individual Grant-2
- USM-RU Team Grant-1

5. RESEARCH PUBLICATIONS

International Paper:

<2006

1. **Srimala Srekantan**, Ahmad Fauzi, M.N., Zainal Arifin, A. and Venkatesh, Improvements in Microstructure and Properties of SrO doped Calcia-Stabilized Zirconia, JOURNAL OF AUSTRALASIAN CERAMIC SOCIETY, 38(2) 117-119 (2002).

2007

1. **Srimala Sreekantan**, Ahmad Fauzi, M.N., Zainal Arifin, A., Radzali Othman, West, A. and Sinclair, D., Impedance Spectroscopy of $Ba_{0.9}Sr_{0.1}TiO_3$ Prepared by Low Temperature Aqueous Synthesis, JOURNAL OF MATERIAL SCIENCE, 42, 2492-2498 (2007).
2. Yeoh Cheow Keat, **Srimala Sreekantan**, Sabar Derita Hutagalung, and Zainal Arifin Ahmad, Fabrication of $BaTiO_3$ thin films through ink-jet printing of TiO_2 sol and soluble Ba salts, MATERIALS LETTERS, 61, 4536-4539 (2007).
3. M. F. Ain, S. I. S. Hassan, J. S. Mandeep, M. A. Othman, B. M. Nawang, **Srimala Sreekantan**, S. D. Hutagalung, and Z. A. Ahmad, 2.5 GHz $BaTiO_3$ dielectric resonator antenna, PROGRESS IN ELECTROMAGNETICS RESEARCH, PIER 76, 201-210 (2007).

2008

1. **Srimala Sreekantan**, Ahmad Fauzi Mohd Noor, Zainal Arifin Ahmad, Radzali Othman and Anthony West, Structural and Electrical Characteristic of Crystalline Barium Titanate Synthesized by Low Temperature Aqueous Method, JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, 195, 171-177 (2008).
2. J.S.Mandeep, N.K.Loke, S. I. S. Hassan, M. F. Ain, **Srimala Sreekantan**, and K.Y. Cheong, Investigation of Microwave Properties of High Permittivity Ceramic Substrate, JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATION, 22, 1873-1882 (2008).

2009

1. **Srimala Sreekantan**, Lee Ren Gee, and Zainovia Lockman, Room temperature anodic deposition and shape control of one – dimensional nanostructured zinc oxide, JOURNAL OF ALLOYS AND COMPOUNDS, 476, 513-518 (2009).
2. P.Y. Goh, K.A. Razak, and **Srimala Sreekantan**, Structural and morphology studies of praseodymium-doped bismuth titanate prepared using a wet chemical route, JOURNAL OF ALLOYS AND COMPOUNDS, 475, 758-761 (2009).
3. **Srimala Sreekantan**, Zainovia Lockman, Roshasnorlyza Hazan, Minoo Tasbihi, Lee Keat Tong, and Abdul Rahman Mohamed, Influence of electrolyte pH on TiO_2 nanotube formation by Ti anodization, JOURNAL OF ALLOYS AND COMPOUNDS, 485, 478-483 (2009).
4. **Srimala Sreekantan**, Roshasnorlyza Hazan, and Zainovia Lockman, Photoactivity of anatase-rutile TiO_2 nanotubes formed by anodization method, THIN SOLID FILMS, 518, 16-22 (2009).
5. **Srimala Sreekantan**, Y. K. Ling, And Z. A. Ahmad, M. F. Ain, M. B. Othman, and S. I. S. Hassan, Simulation And Experimental Investigators On Rectangular, Circular And Cylindrical Dielectric Resonator Antenna, PROGRESS IN ELECTROMAGNETICS RESEARCH C (PIER C), 7, 151-166 (2009).
6. Aye Aye Thant, **Srimala Sreekantan**, Pho Kaung, Mitsuru Itoh, Radzali Othman and Ahmad Fauzi M. N. , Single Step Synthesis Of Magnesium Ferrite Nanoparticles And Some Of Its

- Characteristics, INTERNAL JOURNAL OF NANOSCIENCE, 8,(1&2), 87-91 (2009).
7. Mandeep, J. S., Loke, N. K., Hassan, S. I. S., **Srimala Sreekantan**, and Cheong, K. Y., Microwave Properties Of Bismuth Lanthanum Titanate Ceramic Substrate And Its Effects With Various Shapes, JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS, 23, 415-425 (2009).

2010

1. Zainovia Lockman, Syahriza Ismail, and **Srimala Sreekantan**, Rapid growth of 3 μm long titania nanotubes by anodisation of titanium in neutral electrochemical bath, NANOTECHNOLOGY, 21 Article ID 055601 (2010).
2. A.O. Araoyinbo, M.N. Ahmad Fauzi, **S. Sreekantan**, and A. Aziz, A Novel Process to Produce Nano Porous Aluminum Oxide Using Alkaline Sodium Phosphate Electrolyte, ASIAN JOURNAL OF MATERIALS SCIENCE, 2(2), 63-68 (2010).
3. Zainovia Lockman, **Srimala Sreekantan**, and Syahriza Ismail, Influence of Anodisation Voltage on the Dimension of Titania Nanotubes, JOURNAL OF ALLOYS AND COMPOUNDS, 503(2), 359-364 (2010).
4. **Srimala Sreekantan**, Khairul Arifah Saharudin, Zainovia Lockman, and Teoh Wah Tzu, Fast-rate formation of TiO_2 nanotube arrays in an organic bath and their applications in photocatalysis, NANOTECHNOLOGY, 21(36), Article ID 365603 (2010).
5. A. A. Thant, **Srimala Sreekantan**, P. Kaung, M. Itoh, O. Radzali, and M. N. Ahmad Fauzi, Low temperature synthesis of MgFe_2O_4 soft ferrite nanocrystallites, JOURNAL OF THE AUSTRALIAN CERAMIC SOCIETY, 46(1), 11-14 (2010).
6. A.O. Araoyinbo, M.N. Ahmad Fauzi, **Srimala Sreekantan**, and A. Aziz, Preparation and characterization of thin film TiO_2 dip coated on non-conductive substrate prepared from Tetraethyl Orthotitanate precursor, ASIAN JOURNAL OF APPLIED SCIENCES, 3(1), 35-43 (2010).
7. Nik Akmar Rejab, **Srimala Sreekantan**, Khairunisak Abd Razak, and Zainal Arifin Ahmad, Structural characteristics and dielectric properties of neodymium doped barium titanate, JOURNAL OF MATERIAL SCIENCE: MATERIALS ELECTRONICS, 22, 167-173 (2011).
8. **Srimala Sreekantan**, and Chin Wei Lai, Study on the formation and photocatalytic activity of titanate nanotubes synthesized via the hydrothermal method, JOURNAL OF ALLOYS AND COMPOUNDS 490, 436-442 (2010).
9. Balachandran Ruthramurthy, Ce-Yi Ho, Koay Yen Wei, Yow Ho Kwang, Tan Kar Ban, Ahmad Fauzi Mohd Noor, and **Srimala Sreekantan**, Synthesis of $\text{Ba}_{0.6}\text{Sr}_{0.4}\text{TiO}_3$ Nano Powder through slow rate sol-gel route as a dielectric material, WORLD APPLIED SCIENCE JOURNAL (Special Issue of Nanotechnology) 9, 29-33 (2010).
10. Alaba O. Araoyinbo, M.N. Ahmad Fauzi, **Srimala Sreekantan**, and Azizan Aziz, A novel process to produce nanoporous aluminum oxide using titration technique to prepare the neutral electrolyte, JOURNAL OF NON-CRYSTALLINE SOLIDS, 356(20-22), 1057-1060 (2010).

2011

1. Cheah Jun Yip, Khairunisak Abdul Razak, and **Srimala Sreekantan**, Synthesis and properties study Pr doped $(\text{Bi}_{0.5}\text{Na}_{0.5})\text{TiO}_3$ produced using the soft combustion technique, ADVANCED MATERIALS RESEARCH, 148-149, 1619-1622 (2011).
2. R. Balachandran, H.K. Yow, B.H. Ong, K.B. Tan, K. Anuar, W.T.Teoh, M.M. Ahmad Fauzi, **Srimala Sreekantan**, and V. Swaminathan, Phase formation and dielectric Properties of $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$ by Slow Injection Sol-Gel Technique, JOURNAL MATERIALS SCIENCE, 46, 1806-1813 (2011).
3. Khairunisak Abdul Razak, Chiah Jun Yip, and **Srimala Sreekantan**, Synthesis of $(\text{Bi}_{0.5}\text{Na}_{0.5})\text{TiO}_3$ (BNT) and Pr doped BNT using the soft combustion technique and its properties, JOURNAL ALLOYS AND COMPOUNDS, 509, 2936-2941 (2011).
4. Siti Aida Ibrahim, and **Srimala Sreekantan**, Effect of pH on the on TiO_2 nanoparticles via sol-gel method, ADVANCED MATERIALS RESEARCH, 173, 184-189 (2011).
5. Ruzainah Abdullah, **Srimala Sreekantan**, and Hasmaliza Mohamad, Effect of polyvinyl alcohol (PVA) on the synthesis of alumina fibers through electrospinning technique, ADVANCED MATERIAL RESEARCH, 173, pp. 150-154 (2011).

6. **Srimala Sreekantan**, Roshasnorlyza Hazan, Khairul Arifah Saharudin, Chin Wei Lai, and Ishak Mat, *SAINS MALAYSIANA*, 40, 227–230 (2011).
7. **Srimala Sreekantan**, Khairul Arifah Saharudin, and Chin Wei Lai, *IOP CONF. SERIES: MATERIALS SCIENCE AND ENGINEERING*, 21, Article ID 012002 (2011).
8. Khairul Arifah Saharudin, and **Srimala Sreekantan**, The effect of water content on the formation of TiO₂ nanotubes in ethylene glycol, *ADVANCED MATERIALS RESEARCH*, 173, 102-105 (2011).
9. Siti Aida Ibrahim, Nur Syafinaz Ridhuan, and **Srimala Sreekantan**, Degradation of Methyl Orange using TiO₂ as Photocatalyst, *Enabling Science and Nanotechnology. AIP CONFERENCE PROCEEDING*, 1341, 123-127 (2011).
10. **Srimala Sreekantan**, Chin Wei Lai, and Zainovia Lockman, Extremely Fast Growth Rate of TiO₂ Nanotube Arrays in Electrochemical Bath Containing H₂O₂, *JOURNAL OF THE ELECTROCHEMICAL SOCIETY*, 158(12), C397-C402 (2011).
11. Chin Wei Lai, and **Srimala Sreekantan**, Effect of Applied Potential on the Formation of Self-Organized TiO₂ Nanotube Arrays and Its Photoelectrochemical Response, *Journal of Nanomaterials*, 2011, Article ID 142463 (2011).
12. Ramarao Poliah, and **Srimala Sreekantan**, Characterization and Photocatalytic Activity of Enhanced Copper-Silica-Loaded Titania Prepared via Hydrothermal Method, *JOURNAL OF NANOMATERIALS*, 2011, Article ID 239289 (2011).
13. Roshasnorlyza Hazan, **Srimala Sreekantan**, Adilah Abdul Khalil, Ira Maya Sophia Nordin, and Ishak Mat, TiO₂ Foam: Characterization and Cell Adhesion, *ADVANCED MATERIALS RESEARCH*, 264-265, 1506-1513 (2011).
14. F.H. Wee, F. Malek, **Srimala Sreekantan**, A.U. Al-Amani, F. Ghani, and K.Y. You, Investigation of the characteristics of Barium Strontium Titanate (BST) dielectric resonator ceramic loaded on array antennas, *PROGRESS IN ELECTROMAGNETICS RESEARCH*, 121, 181-213 (2011).
15. P.M. Chou, M. Mariatti, and **Srimala Sreekantan**, Evaluation of the flexural properties and bioactivity of bioresorbable PLLA/PBSL/CNT and PLLA/PBSL/TiO₂ nanocomposites, *COMPOSITES PART B: ENGINEERING*, 43(3), 1374-1381 (2011).

2012

1. **Srimala Sreekantan**, E Pei San, Chin Wei Lai, and Warapong Krengvirat, Nanotubular Transition Metal oxide for Hydrogen Production, *ADVANCED MATERIALS RESEARCH*, 364, 484-499 (2012).
2. Chin Wei Lai, and **Srimala Sreekantan**, Photoelectrochemical properties of TiO₂ nanotube arrays: Effect of electrolyte pH and annealing temperature, *JOURNAL OF EXPERIMENTAL NANOSCIENCE*, In Press, (2012), DOI: 10.1080/17458080.2011.654276.
3. Chin Wei Lai, and **Srimala Sreekantan**, Visible Light Photoelectrochemical Performance of W-loaded TiO₂ Nanotube Arrays: Structural Properties, *JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY*, 12, 3170-3174 (2012).
4. Chin Wei Lai, **Srimala Sreekantan**, and Zainovia Lockman, Photoelectrochemical behaviour of uniform growth TiO₂ nanotubes via bubble blowing synthesised in ethylene glycol with hydrogen peroxide, *JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY*, 12, 4057-4066 (2012).
5. Chin Wei Lai, and **Srimala Sreekantan**, Photoelectrochemical performance of smooth TiO₂ nanotube arrays: Effect of anodization temperature and cleaning methods, *INTERNATIONAL JOURNAL OF PHOTOENERGY*, 2012, Article ID 356943 (2012).
6. Chin Wei Lai, and **Srimala Sreekantan**, Comparison of photocatalytic and photoelectrochemical behavior of TiO₂ nanotubes prepared by different organic electrolyte, *OPTOELECTRONICS AND ADVANCED MATERIALS – RAPID COMMUNICATIONS*, 6(1-2), 82-86 (2012).
7. Chin Wei Lai, and **Srimala Sreekantan**, Dimensional control of TiO₂ nanotube arrays with H₂O₂ content for high photoelectrochemical water splitting performance, *MICRO & NANO LETTERS*, 7(5), 443-447 (2012).
8. Chin Wei Lai, **Srimala Sreekantan**, and Pei San E, Effect of radio frequency sputtering power on W-TiO₂ nanotubes to improve photoelectrochemical performance, *Journal of Material Research*, 27(13), 1695-1704 (2012).

9. Chin Wei Lai, and **Srimala Sreekantan**, Visible light photoelectrochemical response of copper deposited titanium dioxide nanotubes, *THE EUROPEAN PHYSICAL JOURNAL – APPLIED PHYSIC*, 59(2), Article ID 20402, (2012).
10. Chin Wei Lai, **Srimala Sreekantan**, Pei San E, and Warapong Krengvirat, Preparation and Photoelectrochemical Characterization of WO₃-loaded TiO₂ Nanotube Arrays via Radio Frequency Sputtering, *ELECTROCHIMICA ACTA*, 77, 128-136 (2012).
11. Chin Wei Lai, and **Srimala Sreekantan**, Photoelectrochemical response studies of W deposited TiO₂ nanotubes via thermal evaporation technique, *JOURNAL OF EXPERIMENTAL NANOSCIENCE*, In Press, (2012), DOI: 10.1080/17458080.2012.705439.
12. Chin Wei Lai, and **Srimala Sreekantan**, TiO₂ Nanotubes Arrays: Improved photoelectrochemical response by adding optimum amount of ethylene glycol in KOH electrolyte, *NANOSCIENCE AND NANOTECHNOLOGY LETTERS*, 4(8), 1-6 (2012).
13. Chin Wei Lai, and **Srimala Sreekantan**, Higher water splitting hydrogen generation rate for single crystalline anatase phase of TiO₂ nanotube arrays, *THE EUROPEAN PHYSICAL JOURNAL – APPLIED PHYSIC*, 59, Article ID 20403 (2012).
14. Chin Wei Lai, and **Srimala Sreekantan**, WO₃ deposited TiO₂ nanotube arrays by thermal evaporation method for effective photocatalytic activity, *JOURNAL OF ENGINEERING SCIENCE*, 8, 37–48 (2012).
15. Chin Wei Lai, and **Srimala Sreekantan**, Incorporation of WO₃ species into TiO₂ nanotubes via wet impregnation and their visible light water-splitting performance, *ELECTROCHIMICA ACTA*, In Press, (2012), DOI: 10.1016/j.electacta.2012.09.022.
16. Chin Wei Lai, and **Srimala Sreekantan**, Optimized sputtering power to incorporate WO₃ into C-TiO₂ nanotubes for highly visible photoresponse performance, *NANO*, In Press, (2012), DOI: DOI: 10.1142/S1793292012500518.
17. Chin Wei Lai, and **Srimala Sreekantan**, Fabrication of WO₃ nanostructures by anodization for visible-light driven water splitting and photodegradation of methyl orange, *MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING*, In Press, (2012), DOI: 10.1016/j.mssp.2012.10.007.
18. Chin Wei Lai, and **Srimala Sreekantan**, Preparation of hybrid WO₃-TiO₂ nanotube photoelectrodes using anodization and wet impregnation: Improved water-splitting hydrogen generation performance, *INTERNATIONAL JOURNAL OF HYDROGEN ENERGY*, In Press, DOI: 10.1016/j.ijhydene.2012.12.025 (2012).
19. Khairul Arifah Saharudin, **Srimala Sreekantan**, Siti Nor Qurratu Aini Abd Aziz, Roshasnorlyza Hazan, Chin Wei Lai, Rabiatul Basria S.M.N.Mydin, and Ishak Mat, Surface Modification and Bioactivity of Anodic Ti6Al4V Alloy, *JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY*, In Press, DOI: 10.1166/jnn.2012.7115, (2012).
20. Warapong Krengvirat, **Srimala Sreekantan**, Ahmad-Fauzi Mohd Noor, Nobuaki Negishi, Song Yul Oh, Go Kawamura, Hiroyuki Muto, and Atsunori Matsuda, Carbon-incorporated TiO₂ photoelectrodes prepared via rapid-anodic oxidation for efficient visible-light hydrogen generation, *INTERNATIONAL JOURNAL OF HYDROGEN ENERGY*, 37(13), 10046-10056 (2012).
21. Warapong Krengvirat, **Srimala Sreekantan**, Ahmad-Fauzi M.N., Charoen Chinwanitcharoen, and Atsunori Matsuda, Fuel-free low-temperature self-combustion synthesis and characterization of praseodymium-substituted bismuth titanate ceramics, *JOURNAL OF THE CERAMIC SOCIETY OF JAPAN*, 120(1398), 58-63 (2012).
22. Warapong Krengvirat, **Srimala Sreekantan**, Ahmad-Fauzi M.N., Charoen Chinwanitcharoen, Hiroyuki Muto, and Atsunori Matsuda, Influences of PH on the structure, morphology and dielectric properties of bismuth titanate ceramics produced by low-temperature self-combustion synthesis without an additional fuel agent, *CERAMICS INTERNATIONAL*, 38(4), 3001-3009 (2012).
23. Warapong Krengvirat, **Srimala Sreekantan**, M. N. Ahmad-Fauzi, Charoen Chinwanitcharoen, Go Kawamura, and Atsunori Matsuda, Control of the structure, morphology and dielectric properties of bismuth titanate ceramics by praseodymium substitution using an intermediate fuel agent-assisted self-combustion synthesis, *JOURNAL OF MATERIAL SCIENCE*, 47, 4019–4027 (2012).
24. Umar Al-Amani, **Srimala Sreekantan**, M.N. Ahmad Fauzi, A.R. Khairunisak, and K. Warapong, Soft Combustion Technique: Solution Combustion Synthesis and Low-

Temperature Combustion Synthesis; to prepare Bi₄Ti₃O₁₂ Powders and Bulk Ceramics, SCIENCE OF SINTERING, 44, 211-221 (2012).

2013

1. Chin Wei Lai, and **Srimala Sreekantan**, Study of WO₃ incorporated C-TiO₂ nanotubes for efficient visible light driven water splitting performance, JOURNAL OF ALLOYS AND COMPOUNDS, 547, 43-50 (2013).
2. Chin Wei Lai, and **Srimala Sreekantan**, Discovery of WO₃/TiO₂ nanostructure transformation by controlling content of NH₄F to enhance photoelectrochemical response, ADVANCED MATERIAL RESEARCH, 620, 173-178 (2013).
3. Chin Wei Lai, **Srimala Sreekantan**, Incorporation of WO₃ species into TiO₂ nanotubes via wet impregnation and their water-splitting performance, ELECTROCHIMICA ACTA, 87, pp. 294-302 (2013).
4. Chin Wei Lai, **Srimala Sreekantan**, Preparation of hybrid WO₃-TiO₂ nanotube photoelectrodes using anodization and wet impregnation: Improved water-splitting hydrogen generation performance, INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, 38, pp. 2156-2166 (2013).
5. Chin Wei Lai, **Srimala Sreekantan**, TiO₂ Nanotubes Arrays: Improved photoelectrochemical response by adding optimum amount of ethylene glycol in KOH electrolyte, NANOSCIENCE AND NANOTECHNOLOGY LETTERS, 5, pp. 57-62 (2013).
6. Chin Wei Lai, **Srimala Sreekantan**, Heat treatment effects of WO₃-loaded TiO₂ nanotubes with enhanced water splitting hydrogen generation, MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, (2013). DOI: 10.1016/j.mssp.2013.02.002.
7. Farah Diana Mohd Daud, **Srimala Sreekantan**, Abdul Rahman Mohamed, Chin Wei Lai, Morphological control of Ca(OH)₂ nanostructure via sol-gel method using ethanol and N,N-Dimethylformamide as reaction media, ADVANCED SCIENCE, ENGINEERING AND MEDICINE, (2013), DOI: 10.1166/ asem.2013.1355.
8. Khairul Arifah Saharudin, **Srimala Sreekantan**, Siti Nor Qurratu Aini Abd Aziz, Roshasnorlyza Hazan, Chin Wei Lai, Rabiatul Basria S.M.N.Mydin, and Ishak Mat, JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY, (2013), DOI: 10.1166/jnn.2012.7115.
9. Khairul Arifah Saharudin, **Srimala Sreekantan**, Siti Nor Qurratu Aini Abd Aziz, Roshasnorlyza Hazan, Chin Wei Lai, Rabiatul Basria S.M.N.Mydin, and Ishak Mat, JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY, In Press (2013).
10. Khairul Arifah Saharudin, and **Srimala Sreekantan**, P-incorporated TiO₂ Nanotubes for Methyl Orange Degradation, ADVANCED MATERIALS RESEARCH, 620, 151-155 (2013).
11. Nur Hidayati Ahmad Barudin, **Srimala Sreekantan**, Ong Ming Thong, and Lam Kit Lay, Studies of Cell Growth on TiO₂ Nanotubes, ADVANCED MATERIALS RESEARCH, 620, 325-329 (2013).
12. Umar Al-Amani, **Srimala Sreekantan**, Ahmad Fauzi Mohd Noor, and Khairunisak Abd. Razak. (2012). Single step combustion synthesis for the preparation of bismuth titanate ceramics for potential applications, ADVANCED MATERIALS RESEARCH, 620 429-434 (2013).
13. Warapong Krengvirat, **Srimala Sreekantan**, M. N. Ahmad-Fauzi, N. Negishi, Go Kawamura, and Atsunori Matsuda, Low-temperature crystallization of TiO₂ nanotube arrays via hot water treatment and their photocatalytic properties under visible-light irradiation, MATERIALS CHEMISTRY AND PHYSICS, 137, 991-998 (2013).
14. Warapong Krengvirat, **Srimala Sreekantan**, M. N. Ahmad-Fauzi, N. Negishi, Go Kawamura, and Atsunori Matsuda, Single-step growth of carbon and potassium-embedded TiO₂ nanotube arrays for efficient photoelectrochemical hydrogen generation, ELECTROCHIMICA ACTA, 89, 585-593 (2013).

6. PATENTS

- 1) **Srimala Sreekantan**, Zainal Ahmad Arifin, Zainovia Lockman, Chin Wei Lai, Roshasnorlyza Hazan, and Khairul Arifah Saharudin, An apparatus and method for rapid rate of titanium dioxide (TiO₂) nanotubes arrays formation, Pub. No.: WO/2012/ 026799. (AUSTRALIAN PATENT).

- 2) **Srimala Sreekantan**, Zainal Ahmad Arifin, Zainovia Lockman, Chin Wei Lai, Roshasnorlza Hazan, and Khairul Arifah Saharudin, An apparatus and method for rapid rate of titanium dioxide (TiO₂) nanotubes arrays formation, Filing No.: PI201004009. (MALAYSIAN PATENT).

7. BOOK CHAPTERS

- 1) Umar Al-Amani Azlan, **Srimala Sreekantan**, Ahmad Fauzi Mohd Noor, and Khairunisak Abdul Razak, Bismuth: Characteristics, Production and Applications, Chapter 4: Current Progress In Synthesis and Properties of Doped Bismuth Titanate For Advanced Electronic Applications, NOVA SCIENCE PUBLISHERS, 2011.
- 2) Umar Al-Amani Azlan, **Srimala Sreekantan**, Ahmad Fauzi Mohd Noor, and Khairunisak Abdul Razak, Bismuth: Characteristics, Production and Applications, Chapter 5: Synthesis and Properties of Nd-Doped Bi₄Ti₃O₁₂ Using the Soft Combustion Technique, NOVA SCIENCE PUBLISHERS, 2011.
- 3) Umar Al-Amani Azlan, Warapong Krengvirat, Ahmad Fauzi Mohd Noor, Khairunisak Abd. Razak and **Srimala Sreekantan**, Sintering, Sintering and Characterization of Rare Earth Doped Bismuth Titanate Ceramics Prepared by Soft Combustion Synthesis, IN TECH OPEN ACCESS PUBLISHER, 2011.

8. MONOGRAPH

- 1) **Srimala Sreekantan**, Zainovia Lockman, 2010, Responsible Conduct- Research Integrity, Institute of Postgraduate Studies, Universiti Sains Malaysia, 16 pages.
- 2) **Srimala Sreekantan**, 2011, Basic of student- Supervisor relationship, Institute of Postgraduate Studies, Universiti Sains Malaysia, 10 pages.
- 3) **Srimala Sreekantan**, 2011, Horizon of Innovation: A way to cash in your research, Institute of Postgraduate Studies, Universiti Sains Malaysia, 13 pages.
- 4) **Srimala Sreekantan**, Asha Suresh Chand, Khairul Anuar Haji Azmi, Mohd Mukhwim Maghribi, Rafidah Abdul Jalil, Ramli Mohamed, Teh Ai Ying, Yeoh Fei Yee, Zainal Abidin Sanusi, 2012, Blue ocean strategy- Insight and experiences of Universiti Sains Malaysia, Universiti Sains Malaysia, 169 pages.

9. KEYNOTE/ INVITED SPEAKER

- 1) Photocatalyst Seminar, 13th-14th Oct, AMREC, Malaysia
- 2) Network Translation Seminar, 30th Oct, Penang , Malaysia
- 3) Nanomaterials Synthesis & Characterization Conference Nmsc 2009, 3rd-4th Nov 2009. Selangor.
- 4) International Symposium on Global Multidisciplinary Engineering 2011, 24th-25th Jan 2011, Nagaoka Japan
- 5) The International Conference for Nanomaterials Synthesis and Characterization (INSC 2011), 4 July, 201, Selangor Malaysia
- 6) Half Day Course on Improving Indoor Air Quality with Titanium Dioxide (TiO₂) with Special Adress on Green Building 27-May-11, Wisma IEM Petaling Jaya.
- 7) Workshop of Nanomaterials Synthesis and Characterization (INSC 2011), 5 July, 201, Selangor Malaysia
- 8) International Symposium on Materials Science Engineering and Energy Technology, 30-June- 1July 2011, Thammasat University, Pathumthani Thailand
- 9) SMARTCOAT TiO₂ awareness talk at Bangkok on 21 July 2012
- 10) SMARTCOAT TiO₂ awareness talk to Inovar Industries Sdn Bhd on 13 JULY 2012
- 11) SMARTCOAT TiO₂ awareness talk to Iso Team, Singapore 2 October 2012
- 12) Annual Seminar of Malaysian Medical Association-Society of Occupational & Environmental Medicine (MMA-SOEM), Kuala Lumpur, Malaysia, 23rd Feb 2013

10. THESIS REVIEWER

- 1) External Examiner for PhD Dissertation (research mode)-2
- 2) External Examiner for MSc Dissertation (research mode)-5
- 3) Internal Examiner for PhD Dissertation (research mode)-7
- 4) Internal Examiner for MSc Dissertation (research mode)-8
- 5) Internal Examiner for Master Mixed Oxide-5

11. REVIEWER FOR INTERNATIONAL JOURNAL

- 1) Journal of Materials Processing Technology
- 2) Journal Alloys and Compounds
- 3) Materials Research Bulletin
- 4) Thin Solid Film
- 5) Advanced Materials Research
- 6) Journal of Material Science
- 7) Materials Science and Engineering
- 8) Chemical Engineering Journal
- 9) Materials Science & Engineering B: Solid-state Materials for Advanced Technology
- 10) Applied Surface Science
- 11) Journal of Hazardous Materials
- 12) Surface and Coating Technology
- 13) Journal of Photochemistry and Photobiology A: Chemistry
- 14) Microelectronic Engineering
- 15) Journal of Energy Engineering
- 16) Journal of Hydrogen Energy

12. REVIEWER FOR NATIONAL JOURNAL

- 1) Journal of Nuclear and Related Technologies
- 2) Malaysian Journal of Microscopy
- 3) ASEAN Engineering Journal

13. COMMITTEE MEMBER (CONFERENCE / SEMINAR /WORKSHOP)

- 1) Committee Member of The 3rd Workshop Center of Excellent (COE), Penang, Malaysia, 8-9 August 2005
- 2) Committee Member of 10th AUN/SEED-Net, Field Wise Seminar, Pulau Pinang, Malaysia, (4-8 Jun 2007)
- 3) Committee Member of Seminar on Thin Film and Nanotechnology 7th Feb 2007
- 4) Committee Member of Seminar on Nanotechnology in Biotechnology 15th Mac 2007
- 5) Committee Member of Characterisation for Nanostructured Material 22nd March 2007
- 6) Committee Member of Sample Preparation & Microstructural Analysis Workshop
- 7) Committee Member of X-Ray 2004 Workshop on "X-Ray Analysis & Its Applications"
- 8) Committee Member of Short Course on Nanotechnology: Through Old-School Approach
- 9) Committee Member of Young Person Lecture Competition 2007, Malaysia, Penang, June 2007
- 10) Committee Member of Worksyop on "Technical Problem Solving" (IMM Northern Region)- 28 Jan 2008
- 11) Committee Member of Half day seminar on "Biomaterials." (IMM Northern Region)-30 Jan 2008
- 12) Committee Member for 1st Reginal Conference of Materials by SMMRE and AUN/SEED-Net, JICA 16th-17th Feb 2009
- 13) Organizer for Overview of Synthesis, Fabrication and Characterization of Ceramic and Electronic Materials with TRIZ application 7th-8th October 2009

- 14) Committee member for Workshop On Nanoparticles & Polymer Nanocomposites Synthesis by SMMRE, USM, 13th- 15th Jan 2009
- 15) Committee Member for Shortcourse On Solgel Science & Tech: Coating In Nanocentury 10th-11th Feb 2009
- 16) Committee Member for Young Person Lecture Competition (Malaysia) 2009 by SMMRE USM 7th July 2009
- 17) Committee Memebr for the Editorial Board of RAMM & ASMP 09
- 18) Committee Member IMM Northern Region (2002-2004)
- 19) Committee Member IMM Northern Region (2007-2009)
- 20) Panel for RU grant USM 2010 Evaluation
- 21) Committee Member of Young Person's Lecture Competition for National Level
- 22) Secretariat and Contributor for Exhibition of Nanotech Malaysia 2009 at Kuala Lumpur Convention Centre
- 23) Secretariat of Asia Nanocamp 2010.
- 24) Editor for Supercritical Fluid Extraction of CO₂ solvent for Journal of Engineering Research & Education-2010
- 25) Chairman of Half Day Seminar on Nano-TiO₂ for Green Building, 2011.
- 26) Committee Member of NanoMIG SMMRE Booth for NanoMalaysia Summit and Expo 2011, PWTC Kuala Lumpur.
- 27) Committee Member of Seminar on One dimensional nanooxides, 2011.
- 28) Chairperson for International on Materials Science Engineering and Energy Technology, 30 June 2011.
- 29) Chairperson for International Conference on X Rays and Related Techniques in research and Industry 2012 (ICXRI 2012), 4th July 2012.
- 30) Committee Member of Joint Research Seminar USM-NUT 2011, 17th Oct 2011, INFORM, USM
- 31) Chairman Of Short Course of Nanotechnology: Through old-school approach part 2: Break the barrier (micro to nanoworld), 2012.
- 32) Chairman of Short Course "Nanostructures & Nanomaterials; Synthesis, Properties and Application" 2012.
- 33) Facilitator of Program "Blue Ocean Strategy in Research Sustainability" by AKEPT 2012
- 34) Panel for AIM forum for Industry Driven Innovation Session 1 (Agriculture) 2012
- 35) Panel for AIM forum for Industry Driven Innovation Session 2 (Healthcare) 2012
- 36) Editor for Material Engineering in Health Science, Publisher: Universiti Sains Malaysia, 2012
- 37) Editor for Materials: Leading the path of engineers, Publisher: Universiti Sains Malaysia, 2012

14. TRAINING

List of training that have been attended with regards to Materials Engineering field are as follows:

- 1) Workshop on Nanomaterials (23-24th Mei 2007)
- 2) Seminar Emerging Trends in IC and System Packaging Technology by Prof. RaO Tummala (6 Aug 2007)
- 3) Seminar at Tokyo Institute of Technology in Japan (21-27 Oct 2007)
- 4) 1st Translation Research Network in Penang (14th-15th Nov 2007)
- 5) Short course in Catalysis (4th-5th Dec 2007)
- 6) Nanotech Malaysia 2007 & Asian Nano Forum of Summit 2007 (ANFoS2007) (29th Nov-1st Dec 2007)
- 7) Lecture Series on Nanotechnology & Thin Film Series 1 (21st Jan 2008)
- 8) International Symposium on Global Renaissance by Green Energy Resolution in Nagaoka University of Technology, Japan (22nd-25th Jan 2008)
- 9) Talk on Synthesis of Metal Oxide Nanopowder by DrTaimur Athar in AMREC (12th Feb 2008)
- 10) Workshop on Technical Problem presented by Dr. Kohler-Redlich Philipp (28th Jan 2008)
- 11) Half- day seminar on Biomaterials presented by Prof. Kuino Ishikawa (30th Jan 2008)
- 12) Course on Electron backscattered Diffraction in Scanning Electron Microscope (18th-19th June 2008)
- 13) Course on Penulisan and Penerbitan Gred 52 (26th May 2008)
- 14) Course on Pembangunan Profesionalisme Akademia Gred 52 (10th Jun 2008)

- 15) Course on Educational Approach & Technology Gred 52 (18th Jun 2008)
- 16) Course on Effective Communication II Gred 52 (23rd-24th Jun 2008)
- 17) XRD Course: The Application of EVA & TOPAS software (4th July 2008)
- 18) 2nd International Conference & Exhibition on Composite Materials & Nanostructure (5th-7th Aug 2008)
- 19) 6th International Material Technology Conference & Exhibition (26th -27th Aug 2008)
- 20) Course on Pengurusan Inovasi Gred 52 (Sesi 2) (21st Oct 2008)
- 21) Course on Penulisan & Penerbitan Gred 52 (Sesi 2) (23 Oct 2008)
- 22) Course on Penyelidikan berkesan Gred 52 (11th 13th Nov 2008)
- 23) Daad Seminar (27th Nov 2008)
- 24) Workshop On Nanoparticles & Polymer Nanocomposites Synthesis (13th Jan 2009)
- 25) Ceramah & Perbincangan Persediaan Ke Arah Universiti Apex (21st Jan 2009)
- 26) Workshop On Solgel Science & Tech : Coating In Nanocentury (10th Feb 2009)
- 27) Safety and Health at Work by IEM 16th -17th Mac 2009
- 28) Code of Ethics/ Regulations by IEM 21st -22nd April 2009
- 29) Engineering Management Practice by IEM 7th -8th Mei 2009
- 30) Cradle Business Plan Clinic organized by Cradle 22nd 24th July 2009
- 31) Bengkel Quality management II (ISO 13485 Part II) 2nd - 4th Dec 2009, SMMRE, Kampus Kejuruteraan
- 32) Jemputan penyertaan Bengkel Future on Nanotoxicology Research, 17th – 19th Dec 2009, Berjaya Langkawi Beach, Spa Resort, Kedah
- 33) A Workshop on Good laboratory Practice (GLP) in Research: Archival Elements, 21st -24th Dec 2009.
- 34) Phase-2(BOS)-Visual Awakening Workshop, 27 Feb 10 -28 Feb 10 ,Flamingo, Penang
- 35) Phase 2 (Blue Ocean Strategy)-Visual Exploration Workshop,28 Mar 10 -29 Mar 10, Hotel Bayview, Georgetown
- 36) Phase 2 (BOS)-Visual Strategy Creation & Fair, 22 Apr 10 -24 Apr 10, Golden Sand Resort, Penang
- 37) EQ Genius Seminar, 28 Apr 10, Kampus Kejuruteraan
- 38) Phase 2 (BOS)- Execution Workshop, 16 Jun 10 -16 Jun 10, Eastin Hotel, Penang
- 39) Workshop on Good Manufacturing Practice (GMP) III, 2 Jun 10 -4 Jun 10, Bukit Jawi Golf Resort, Nibong Tebal
- 40) Workshop on Training Of Trainers Blue Ocean Strategy Phase III, 16 Jun 10 , Eastin Hotel, Penang
- 41) CEE Strategic Planning Workshop, 9 Aug 10 , Sunway Hotel, Seberang Jaya
- 42) Training Workshop On Writing Science For Easy Communication, 22 Sep 10 -23 Sep 10, Minden, Penang
- 43) Workshop on Action Plan for Accelerated Programme for Excellence (APEX) Year 2011, 30 Nov 10-1 Nov 10, Equitorial, Penang
- 44) Capacity Building in Innovation, Technology Transfer and University Start-up workshop by UKM, Malaysia and Steven Institute of Technology, USA, 7-10 June 10- 26-4 Aug 2010, Universiti Kebangsaan Malaysia
- 45) IP and Innovations Camp (i- CAMP), 23 Nov 10-24 Nov 2010, Minden, Penang
- 46) TMR 506: Seminar on Laboratory management, 8 Mac 2010, USAINS Auditorium

15. INNOVATION AWARDS:

No	Awards	Year
1	Gold Medal for Malaysia Technology Expo 2013, Malaysia, for project entitles SMARTCOAT: Remedy for VOC, fungal and bacteria growing world, 21-23 Feb 2013.	2013
2	Silver Medal for Korea International Women's Invention Exposition 2012, Seoul, Korea, for project entitles SMARTCOAT : Remedy for VOC, fungal and bacteria growing world, 3-6 May 2012.	2012
3	Gold Medal for consumer category and the Gold Medal for natural earth category, World Invention Awards London 2011 at the British Invention Show	2012

	(BIS) held at Alexandra Palace, United Kingdom, for project entitles SMARTCOAT, 24-27 October 2012	
4	Gold Medal for National Research & Innovation Competition 2012, Malaysia, for project entitles NANOCOAT: An Inspired Molecular Solutions for ultimate protection against indoor air pollutants, 16-19 July 2012	2012
5	Gold Medal and Ecology Medal at International Trade Fair: Ideas-Inventions-New Products, IENA 2011, for project entitle Titano: An Excellent Air Purifier, Nuremberg,29-30th Oct 201	2011
6	Gold Medal & Romanian Best Innovation Award, World Invention Awards London 2011 at the British Invention Show (BIS) held at Alexandra Palace, United Kingdom, for project entitle Hybrid Transition Oxide Nanotube- Bridge to sustainable economy.	2011
7	Silver Medal at International Warsaw Inventions Show (IWIS 2011), for project entitle Titano: An Excellent Air Purifier	2011
8	Gold Medal, Korea International Women's Invention Exposition 2011, Seoul, Korea, hosted by the Korean Intellectual Property Office (KIPO) and organized by the Korea Women Inventors Association (KWIA), for project entitles: Nanopurifier- A sustainable way of destroying contaminants in air and water.	2011
9	Gold Medal and The Best Award, Malaysia Technology Expo 2010, Kuala Lumpur, for project entitle: Titano An Excellent Air Purifier, 4-6 th Feb 2010	2010
10	Gold Medal with the Congratulations of the jury from 37 th International Exhibition of Inventions New Techniques and Products in Geneva, Switzerland,,: TNT A novel photocatalyzer	2009
11	Gold Medal, 20 th International Invention, Innovation & Technology Exhibition ITEX 2009, Kuala Lumpur, Malaysia : Soft Magnetic Ferrite Nanocrystallites	2009
12	Gold Medal, Malaysia Technology Expo (MTE) 2009, Kuala Lumpur, for project entitle: A Novel Dielectric Resonator Antenna for Ku-Band Application	2009
13	Silver Medal, 20 th International Invention, Innovation & Technology Exhibition ITEX 2009, Kuala Lumpur, Malaysia : TiO ₂ nanotubes arrays an excellent smoke purifier	2009
14	Gold Price, Seoul International Invention Fair (SIIF) 2008, Korea, for project entitle: A Novel 2.5 GHz Dielectric Wireless Antenna	2008
15	Gold Medal, Malaysia Technology Expo 2008, Kuala Lumpur, for project entitle: A Novel 2.5 GHz Dielectric Wireless Antenna	2008
16	Gold Medal, Malaysia Technology Expo 2008, Kuala Lumpur, for project entitle: TNT A novel photocatalyzer	2008
17	Malaysian for Women in Science Fellowship 2007 from LOreal Sdn Bhd	2007
	Bronze Medal, International Exposition of research and inventions of institutions of higher learning 2007 (Pencipta), KLCC for project entitle: Novel DielectricAntenna for Wireless Application	2007