

## CURRICULUM VITAE

### Dr. M. M. M. G. Prasanga Gayanath Mantilaka

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Google Scholar: [https://scholar.google.com/citations?user=0nq\\_1K0AAAAJ&hl=en&oi=ao](https://scholar.google.com/citations?user=0nq_1K0AAAAJ&hl=en&oi=ao)

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### ACADEMIC QUALIFICATIONS

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#### 2011-2014 Doctor of Philosophy (Ph.D.)

Postgraduate Institute of Science, University of Peradeniya, Peradeniya, Sri Lanka  
*Thesis:* Nanomaterials from Impure Marbles: Synthesis, Characterization and Specific Properties  
*Research Outcomes:* 6 Filed Patents, 9 Published Papers in international indexed journals & 16 Communications. The project is currently under pilot plant scale studies with LKR 20 million of government funds together with six partnership private companies for commercialization.  
*Supervisors:* Dr. D.G.G.P. Karunaratne, Prof. H.M.T.G.A. Pitawala and Prof. R.M.G. Rajapakse  
*Examiners:* Prof. Kenji Murakami (Japan), Dr. N. Balasooriya and Prof. H. M. N. Bandara

#### 2007-2011 Bachelor of Science (Second Class Honours) degree in Applied Sciences (4 years degree)

Faculty of Science, University of Peradeniya, Peradeniya, Sri Lanka  
*Principal Subjects:* Chemistry, Geology & Industrial-based subjects in 4<sup>th</sup> year  
*Thesis:* Reduction of Premature Heavy-sulphation and Grid Corrosion in Lead acid Batteries  
*Internships:* National Water Supply and Drainage Board, Ratmalana, Sri Lanka  
Associated Battery Manufacturers (Ceylon) Limited, Ratmalana, Sri Lanka

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### PROFFETIONAL QUALIFICATIONS

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#### Since 4/2018 Senior Research Scientist

Sri Lanka Institute of Nanotechnology, Nanotechnology and Science Park, Homagama, Sri Lanka  
*Summary of key duties:* Planning, implementation and management of research and development projects in the fields of materials science, nanotechnology, value-addition to naturally occurring minerals and waste management funded by both Sri Lanka government and private sector industries. Leading a research group consist of research fellows, research scientists & postgraduate students. Attraction of funding including research grants. Publishing & patenting results of projects.

#### Since 1/2018 Senior Lecturer II (<http://slintecacademy.lk/index.php/our-staff/>)

Academy of Sri Lanka Institute of Nanotechnology, Nanotechnology and Science Park, Homagama, Sri Lanka  
*Summary of duties:* Conducting lectures in the course unit "NAT 11101: Advanced Characterization Techniques" and supervision of 3 M.Phil./PhD research students.

#### Since 6/2015 Visiting Lecturer

Postgraduate Institute of Science, University of Peradeniya, Peradeniya, Sri Lanka  
*Summary of duties:* Conduct lectures in M.Sc. in Nanoscience & Nanotechnology and supervision of postgraduate research students (5 M.Phil. students and about 22 M.Sc. students)

**9/2015-4/2018 Post-Doctoral Fellow**

Sri Lanka Institute of Nanotechnology, Nanotechnology and Science Park, Homagama, Sri Lanka  
*Summary of key achievements:* Mainly engaged in materials science, nanotechnology, value-addition to naturally occurring minerals and waste management based projects funded by both Sri Lanka government and private sector industries. Completed six projects in lab scale and two were scaled up in pilot plants (Project details are confidential). Planned client based industrial projects and prepared project proposals. Two National Research Council research grants were attracted as a principal investigator and as a co-investigator (LKR 5.5 M). They were the first two NRC grants awarded to SLINTEC. International EPSRC grant was also attracted as a collaborator with 3 foreign institutes (£ 20k). Obtained training for world class advanced analytical instruments at SLINTEC. Established and lead a research group on materials and mineral. Published several research papers in reputed SCI journals and completed over 8 manuscripts to be published in reputed SCI journals together with over 20 communications in conferences.

**4/2014-8/2015 Research Assistant**

ATG Intelligent Glove Solutions LTD., Katunayake Industrial Zone, Katunayake, Sri Lanka

**2013-2015 Demonstrator of M.Sc. in Nanoscience and Nanotechnology**

Postgraduate Institute of Science, University of Peradeniya, Peradeniya, Sri Lanka

**2014-2015 Demonstrator of M.Sc. in Analytical Chemistry**

Postgraduate Institute of Science, University of Peradeniya, Peradeniya, Sri Lanka

**9/2011-10/2014 Graduate Research Assistant**

University of Peradeniya, Peradeniya, Sri Lanka

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**MEDALS AND AWARDS**

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**2014 P. G. Cooray Medal 2013**

The Most Outstanding Young Earth Scientist in Sri Lanka in the year 2013  
Awarded by the Geological Society of Sri Lanka (Web: [www.gsslweb.org](http://www.gsslweb.org))

**2011-2014 Research Fellowship**

National Research Council (NRC), Sri Lanka. Research Grant No. 11-178

**2015 Merit Award for International Publication in 2013**

National Research Council (NRC), Sri Lanka

**2016 Presidential award for scientific publications in 2014 (For five papers in reputed indexed journals)**

Ministry of Science, Technology and Research, Sri Lanka

**2018 Presidential award for scientific publications in 2016 (Papers in journals with impact over 3.5)**

Ministry of Science, Technology and Research, Sri Lanka

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**MAJOR RESEARCH AREAS**

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- Value-addition to earth materials such as dolomite, calcite, monazite, graphite, apatite and laterite through synthesis of value-added products including nanomaterials for industrial, environmental and medical applications
- Solutions for industrial solid and effluent waste management
- Design and synthesis of photocatalysts for the degradation of organic wastes and pollutants
- Polymer nanocomposites for multifunctional packing applications
- Hollow and mesoporous inorganic materials for catalysis, pollution remediation and for slow-release systems such as drugs, fertilizers and insect repellent applications
- Preparation of superhydrophobic and oil-repellent rubber and textile materials
- Fabrication of custom-made biocompatible bone-implants and biomaterials
- Synthesis of graphite based composite materials for broad range of applications

- Self-healing epoxy based nanocomposites
- Light scattering coatings
- Fabrication of smart and advanced textiles
- Synthesis of photoluminescence materials including carbon quantum dots

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## RESEARCH GRANTS ATTRACTED

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- **Principal Investigator** – “Synthesis of Value-added Products including Nanomaterials from Sri Lankan Laterite for Industrial Applications”, National Research Council (No. 16-123), Sri Lanka – LKR 2.6 million. 2016. *Grant was attracted as PI within very short period of time after graduating with a PhD and the 1<sup>st</sup> NRC grant of SLINTEC*
- **Co-investigator** – “Synthesis and commercialization of value-added products from Sri Lankan dolomitic lime” - National Science Foundation, Sri Lanka, Technology Grant, LKR 20 million. 2016
- **Co-investigator** – “Multi-channel hollow calcium carbonate based self-healing composites”, National Research Council (No. 17-007), Sri Lanka, LKR 2.9 million. 2017
- **Collaborator** – Clean drinking water: Nanostructured fibrous membranes for portable water filtration devices, Engineering and Physical Sciences Research Council (**EPSRC**) Global Challenges Research Fund 2017-2018, **United Kingdom**, (Collaboration between Newcastle University, UK and Singapore, Monash University Malaysia and SLINTEC), GB Pounds 20k.
- **Co-investigator** – “Extraction of Trace and Rare Earth Elements (REEs) from Eppawala Carbonatites, Sri Lanka for advanced technological applications”, Accelerate Higher Education Development Expansion and Development (AHEAD) Innovations and Commercialization Enhancement (ICE) grant, LKR 4.09 million. 2018

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## RESEARCH COLLABORATIONS WITH FOREIGN UNIVERSITIES AND NATIONAL INSTITUTES

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- Loughborough University, Loughborough, LE11 3TU, UK – *Published 3 research papers*
- University College London, UK – *Published 2 research papers*
- Shizuoka University, Japan – *Published 1 research paper*
- Queensland University of Technology, Australia – *Published 1 research paper*
- National Institute of Fundamental Studies, Sri Lanka – *Published 1 research paper*
- Toyota Technological Institute, Japan – *Published 1 research paper*
- Monash University, Malaysia Branch – *Collaborator of NRC 17-007 grant and EPSRC grant*
- Newcastle University, UK and Singapore branches – *Collaborators of EPSRC grant*
- University of Melbourne, Australia – *Collaboration with SLINTEC*

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## SUPERVISION OF POST-GRADUATE STUDENTS

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- MPhil/PhD students at Postgraduate Institute of Science, University of Peradeniya
  1. Goyum Wickramasinghe – M.Phil. Candidate
  2. Kapila Elkaduwa – Current M.Phil. Candidate willing to be upgraded to PhD
  3. Sandun Dissanayake – Current M.Phil. Candidate to be upgraded to PhD
  4. Madupa Abeywardena – M.Phil. Candidate
  5. G. T. Dilhara Chandrakumara – Application was submitted to register M.Phil degree (Under ICE grant)
- M.Phil. students at the Academy of Sri Lanka Institute of Nanotechnology
  1. Anoja Kawshihan – M.Phil. Candidate
  2. Mihiri Ekanayake – M.Phil. Candidate
  3. Nadeesha Hettiarachchi – M.Phil. Candidate
- M.Sc. students at Postgraduate Institute of Science, University of Peradeniya
  1. Asiri Rathnayake – M.Sc. in Materials Physics – Graduated
  2. R.A. Amarasinghe – M.Sc. in Nanoscience and Nanotechnology – Graduated
  3. Mahesh Chamara – M.Sc. in Nanoscience and Nanotechnology – Graduated
  4. Ragulan Kanthasami – M.Sc. in Nanoscience and Nanotechnology – Defence to be scheduled
  5. Nishantha Gunawardhana – M.Sc. in Nanoscience and Nanotechnology – Defence to be scheduled
  6. Mihiri Ekanayake – M.Sc. in Nanoscience and Nanotechnology – Defence to be scheduled
  7. Taniya Dayananda – M.Sc. in Nanoscience and Nanotechnology – Thesis under examination
  8. Gayathree Liyanage – M.Sc. in Nanoscience and Nanotechnology – Thesis under examination

9. Shanika Udayangani – M.Sc. in Nanoscience and Nanotechnology – Thesis under examination
10. Jayani Seneviratne – M.Sc. in Nanoscience and Nanotechnology – Thesis under examination
11. Sanjeewa Karunarathne – M.Sc. in Nanoscience and Nanotechnology – Thesis to be submitted
12. Chamali Kumari – M.Sc. in Nanoscience and Nanotechnology – Thesis to be submitted
13. Milan Wickramasinghe – M.Sc. in Nanoscience and Nanotechnology – Thesis to be submitted
14. Dhanoja Bandara – M.Sc. in Nanoscience and Nanotechnology – Thesis to be submitted
15. Kasun Delgahapitiya – M.Sc. in Nanoscience and Nanotechnology – Thesis to be submitted
16. Ishara Madubashini – M.Sc. in Nanoscience and Nanotechnology – On going
17. Chathuri Perera – M.Sc. in Nanoscience and Nanotechnology – On going
18. Dasun Adeesha – M.Sc. in Nanoscience and Nanotechnology – On going
19. Anjela Mositha – M.Sc. in Analytical Chemistry – On going
20. Achini Kulathunga – M.Sc. in Nanoscience and Nanotechnology – On going
21. Anjali Karannagoda – M.Sc. in Nanoscience and Nanotechnology – On going
22. Shalomi Deepika – M.Sc. in Nanoscience and Nanotechnology – On going
23. Fathima Rasmiya – M.Sc. in Nanoscience and Nanotechnology – On going

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## **DISSEMINATION OF KNOWLEDGE**

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- Lectures on applications of nanotechnology in local industries (Course code: PHN 516) of M.Sc. in Nanoscience and Nanotechnology, PGIS, University of Peradeniya – 2015 to date
- Lecture series on advanced characterization techniques (NAT 11101) of SLINTEC Academy 2017
- Guest Lecture on “Industrial Products from Carbonate Minerals and Graphite” conducted for B.Sc. in Applied Sciences fourth year undergraduates in 2013 and 2014, University of Peradeniya
- Guest Lecture on “Scanning Electron Microscope and its use for the Characterization of Earth Materials” conducted for B.Sc. in Geology third year undergraduates in 2014, University of Peradeniya
- Awareness lectures on nanotechnology for school students and teachers, undergraduate and graduate students at SLINTEC since 2015
- Public awareness on nanotechnology by active participation in exhibitions stalls of SLINTEC.
- Training of advanced equipment and instruments for science and engineering employees of SLINTEC and students
- Organizing committee member of international conference on structural engineering and construction management 2017
- Organizing committee member of workshop on nanotechnology in mineral industry of PGIS congress 2017
- Panellist International Research Symposium of Uva Wellassa University 2018

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## **MEMBERSHIPS IN PROFESSIONAL BODIES**

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- Member of Royal Society of Chemistry (RSC), UK – Since 8/2018
- Ordinary Member of Geological Society of Sri Lanka (GSSL) – Since 2012
- Member of Alumni Association, University of Peradeniya – Since 2014
- Member of Sri Lanka Association for the Advancement of Science – Since 2015
- Member of Young Researchers’ Forum, Postgraduate Institute of Science, University of Peradeniya 2013-2015

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## **CONTRIBUTIONS TO NATIONAL AND INSTITUTIONAL DEVELOPMENT**

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- Senate member of Academy of Sri Lanka Institute of Nanotechnology 2017/18
- Introduction of new research areas including nanomaterials from minerals and self-healing composites to the country.
- Attraction of research grants every year after graduation with a PhD (First grant was attracted within a few months after the graduation) for capacity building.
- Contribution to produce postgraduate qualified researchers in various research areas
- Collaboration with foreign and national institutes and Universities to disseminate the knowledge

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## HANDLED AND OPERATED INSTRUMENTS

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Scanning Electron Microscope (SEM) with Energy Dispersive X-ray Spectroscopy (EDS), powder X-ray Diffractometer (XRD), Fourier Transmission Infrared (FT-IR) Spectrophotometer, Raman Spectrometer, Atomic Force Microscope (AFM), X-ray Fluorescence (XRF), Thermo Gravimetric Analyser (TGA), Differential Scanning Calorimeter (DSC), Fluorometer, Gas Chromatograph Mass Spectrometer (GC-MS), Liquid Chromatograph Mass Spectrometer (LC-MS), UV-Visible Spectrophotometer, Atomic Absorption Spectrophotometer (AAS), Inductively Coupled Plasma Mass Spectrometer (ICP-MS), Dynamic Mechanical Analyser (DMA), Trained for Transmission Electron Microscope (TEM) with EELS and EDAS analyses (Not an authorized operator), Brunauer–Emmett–Teller (BET) and Dynamic Light Scattering (DLS) Particle Size Analyser.

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## REVIEWER OF INTERNATIONAL INDEXED JOURNALS

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- Materials Science and Engineering C, Elsevier– Referee since 2013, Reviewed 16 research papers
- Materials Letters, Elsevier publication, Elsevier – Referee in 2015, Reviewed 1 research paper
- Particulate Science and Technology, Taylor & Francis – Referee in 2016, Reviewed 1 research paper
- Journal of Cleaner Production, Elsevier - Referee since 2016, Reviewed 8 research papers
- Groundwater for Sustainable Development, Elsevier – Referee in 2017, Reviewed 1 research paper
- Carbohydrate polymers, Elsevier – Referee in 2017, Reviewed 1 research paper
- Asia-Pacific Journal of Chemical Engineering – Referee since 2017, Reviewed 1 research paper
- RSC Advances – Referee since 2018

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## PATENTS

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1. D. G. G. P. Karunaratne, H. M. T. G. A. Pitawala, R. M. G. Rajapakse, M. M. M. G. P. G. Mantilaka, Novel method to synthesize precipitated calcium carbonate/poly(methyl methacrylate) nanocomposite using dolomite, Sri Lanka Patent Application No. LK/P/1/17768, Pending.
2. D. G. G. P. Karunaratne, H. M. T. G. A. Pitawala, R. M. G. Rajapakse, M. M. M. G. P. G. Mantilaka, Synthesis of Nanomaterials of Magnesium Hydroxide and Magnesium Oxide using Dolomite and Magnesite, Sri Lanka Patent Application No. LK/P/1/17769, Pending.
3. D. G. G. P. Karunaratne, H. M. T. G. A. Pitawala, R. M. G. Rajapakse, M. M. M. G. P. G. Mantilaka, Surfactant-assisted Synthesis of Nanomaterials using Dolomite and Rejected Brines of Salt Industry as raw materials, Sri Lanka Patent Application No. LK/P/1/17770, Pending.
4. D. G. G. P. Karunaratne, H. M. T. G. A. Pitawala, R. M. G. Rajapakse, M. M. M. G. P. G. Mantilaka, Preparation of Hollow-bone-like Calcium Carbonate from Carbonate Minerals through Surfactant/polymer Template, Sri Lanka Patent Application No. LK/P/1/17771, Pending.
5. D. G. G. P. Karunaratne, H. M. T. G. A. Pitawala, R. M. G. Rajapakse, K. G. C. Senarathna, M. M. M. G. P. G. Mantilaka, G. M. C. R. Bandara, Anticorrosive and Flame-retardant Nanocomposite Surface Coatings of Polyaniline/vaterite and Polyaniline/magnesium hydroxide, prepared from Natural Calcite and Dolomite, Sri Lanka Patent Application No. LK/P/1/17767, Pending.
6. W. P. S. L. Wijesinghe, M. M. M. G. P. G. Mantilaka, R. M. G. Rajapakse, H. M. T. G. A. Pitawala, D. G. G. P. Karunaratne, R. P. V. J. Rajapakse, Preparation of hydroxyapatite nanomaterials from naturally occurring carbonate minerals, Sri Lanka Patent Application No. LK/P/1/18036, Pending

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## RESEARCH PUBLICATIONS

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### *Refereed International Journals*

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1. M. M. M. G. P. G. Mantilaka, D. G. G. P. Karunaratne, R. M. G. Rajapakse, H. M. T. G. A. Pitawala, "Precipitated calcium carbonate/poly(methyl methacrylate) nanocomposite using dolomite: Synthesis, characterization and properties", *Powder Technology* **235** (2013) 628-632.
2. M. M. M. G. P. G. Mantilaka, R. M. G. Rajapakse, D. G. G. P. Karunaratne, H. M. T. G. A. Pitawala, "Preparation of amorphous calcium carbonate nanoparticles from impure dolomitic marble with the aid of poly(acrylic acid) as a stabilizer", *Advanced Powder Technology* **25** (2014) 591-598.

3. M. M. M. G. P. G. Mantilaka, H. M. T. G. A. Pitawala, D. G. G. P. Karunaratne, R. M. G. Rajapakse, "Nanocrystalline magnesium oxide from dolomite via poly(acrylate) stabilized magnesium hydroxide colloids", *Colloids and Surfaces A: Physicochemical and Engineering Aspects* **443** (2014) 201-208.
4. K. G. C. Senarathna, M. M. M. G. P. G. Mantilaka, T. A. N. Peiris, H. M. T. G. A. Pitawala, D. G. G. P. Karunaratne, R. M. G. Rajapakse, "Convenient routes to synthesize uncommon vaterite nanoparticles and the nanocomposites of alkyd resin/polyaniline/vaterite: The latter possessing superior anticorrosive performance on mild steel surfaces", *Electrochimica acta* **117** (2014) 460-469.
5. M. M. M. G. P. G. Mantilaka, H. M. T. G. A. Pitawala, R. M. G. Rajapakse, D. G. G. P. Karunaratne, K. G. U. Wijayantha, "Formation of hollow bone-like structures of calcium carbonate on surfactant/polymer templates", *Journal of Crystal Growth* **392** (2014) 52-59.
6. M. M. M. G. P. G. Mantilaka (Corresponding author), W. P. S. L. Wijesinghe, R. M. G. Rajapakse, D. G. G. P. Karunaratne, H. M. T. G. A. Pitawala, "Surfactant-assisted synthesis of pure calcium carbonate nanoparticles from Sri Lankan dolomite", *Journal of the National Science Foundation* **43** (2014) 237-244.
7. W. P. S. L. Wijesinghe, M. M. M. G. P. G. Mantilaka, E. V. A. Premalal, H. M. T. U. Herath, S. Mahalingam, M. Edirisinghe, R. P. V. J. Rajapakse, R. M. G. Rajapakse, "Facile synthesis of both needle-like and spherical hydroxyapatite nanoparticles: Effect of synthetic temperature and calcination on morphology, crystallite size and crystallinity", *Materials Science and Engineering C* **42** (2014) 83-90.
8. Y. R. Somarathna, M. M. M. G. P. G. Mantilaka, D. G. G. P. Karunaratne, H. M. T. G. A. Pitawala, R. M. G. Rajapakse, K. G. U. Wijayantha, "Biomimetic synthesis of high purity calcium carbonate micro- and nano-structures on polyethylene glycol templates using dolomite", *Crystal Research & Technology* **51** (2016) 207-214.
9. W. P. S. L. Wijesinghe, M. M. M. G. P. G. Mantilaka, R. M. G. Rajapakse, R. P. V. J. Rajapakse, H. M. T. U. Herath, "Colloidal hydroxyapatite/Poly(acrylic acid) hybrids using calcium sucrate and ammoniumdihydrogen orthophosphate", *Journal of Applied Solution Chemistry and Modeling* **5** (2016) 21-29.
10. W. P. S. L. Wijesinghe, M. M. M. G. P. G. Mantilaka, K. G. C. Senarathna, H. M. T. U. Herath, T. N. Premachandra, C. S. K. Ranasinghe, R. P. V. J. Rajapakse, R. M. G. Rajapakse, M. Edirisinghe, S. Mahalingam, I. M. C. C. D. Bandara, S. Singh, "Preparation of bone-implants by coating hydroxyapatite nanoparticles on self-formed titanium dioxide thin-layers on titanium metal surfaces", *Materials Science and Engineering C* **63** (2016) 172-184.
11. R. T. De Silva, M. M. M. G. P. G. Mantilaka, S. P. Ratnayake, G. A. J. Amaratunga, K. M. N. de Silva, "Nano-MgO reinforced chitosan nanocomposites for high performance packaging applications with improved mechanical, thermal and barrier properties", *Carbohydrate Polymers* **157** (2017) 739-747.
12. R. M. N. M. Rathnayake, M. M. M. G. P. G. Mantilaka, M. Hara, Hsin-Hui Huang, H. W. M. A. C. Wijayasinghe, Masamichi Yoshimura, H. M. T. G. A. Pitawala, "Graphite intercalated polyaniline composite with superior anticorrosive and hydrophobic properties, as protective coating material on steel surfaces" *Applied Surface Science* **410** (2017) 445-453.
13. W. P. S. L. Wijesinghe, M. M. M. G. P. G. Mantilaka, R. M. G. Rajapakse, H. M. T. G. A. Pitawala, T. N. Premachandra, H. M. T. U. Herath, R. P. V. J. Rajapakse, "Urea-assisted synthesis of hydroxyapatite nanorods from naturally occurring impure apatite rocks for biomedical applications", *RSC Advances* **7** (2017) 24806-24812.
14. R. T. De Silva, M. M. M. G. P. G. Mantilaka, K. L. Goh, S. P. Ratnayake, G. A. J. Amaratunga, K. M. N. de Silva, "Magnesium oxide nanoparticles reinforced electrospun alginate-based nanofibrous scaffolds with improved physical properties", *International Journal of Biomaterials* (2017) <https://doi.org/10.1155/2017/1391298>
15. M. M. M. G. P. G. Mantilaka, R. T. De Silva, S. P. Ratnayake, K. M. N. de Silva, G. A. J. Amaratunga, "Photocatalytic activity of electrospun MgO nanofibres: Synthesis, characterization and applications", *Materials Research Bulletin* **99** (2018) 204-210.
16. W. P. S. L. Wijesinghe, M. M. M. G. P. G. Mantilaka, T. A. N. Peiris, R. M. G. Rajapakse, K. G. U. Wijayantha, H. M. T. G. A. Pitawala, T. N. Premachandra, H. M. T. U. Herath, R. P. V. J. Rajapakse, "Preparation and Characterization of Mesoporous Hydroxyapatite with Non-cytotoxicity and Heavy Metal Adsorption Capacity", *New Journal of Chemistry* **42** (2018) 10271-10278.
17. U. G. M. Ekanayake, N. Rathuwadu, M. M. M. G. P. G. Mantilaka (Corresponding author), R. M. G. Rajapakse, "Fabrication of ZnO nanoarchitected fluorine-free robust superhydrophobic and UV shielding polyester fabrics for umbrella canopies", *RSC Advances* **8** (2018) 31406-31413.
18. W. P. S. L. Wijesinghe, M. M. M. G. P. G. Mantilaka, T. S. E. F. Karunaratne, R. M. G. Rajapakse, "Synthesis of Hydroxyapatite/poly(methyl methacrylate) Nanocomposite using Dolomite", *Nanoscale Advances* (2018) <http://dx.doi.org/10.1039/C8NA00006A>
19. R. T. De Silva, R. K. Dissanayake, M. M. M. G. P. G. Mantilaka, W. P. S. L. Wijesinghe, S. S. Kaleel, T. N. Premachandra, L. Weerasinghe, K. M. N. de Silva, G. A. J. Amaratunga, "Drug-loaded Halloysite Nanotubes

Reinforced Electrospun Alginate-based Nanofibrous Scaffolds with Sustained Antimicrobial Protection”, *ACS Applied Materials and Interfaces* **10** (2018) 33913-33922.

20. K. Raagulan, M. M. M. G. P. G. Mantilaka (Corresponding author), G. T. D. Chandrakumara, U. G. M. Ekanayake, W. P. S. L. Wijesinghe, S. Ehanathan, R. M. G. Rajapakse, R. Braveenth, K. Y. Chai, “Sunlight active  $U_3O_8@ZnO$  nanocomposite superfast photocatalyst: Synthesis, characterization and application” *Nanoscale Advances* (2019) <http://dx.doi.org/10.1039/C8NA00051D>

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#### *Manuscripts (Revising, Under review and In Preparation)*

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- 2 Revising manuscripts in journals, Royal Society Open Science and Applied Catalysis A
- 9 Under review manuscripts in journals including Applied Catalysis A, Nanoscale Advances, Polymer Testing, Materials Research Bulletin, Journal of Colloids and Interface Science and ACS Nano
- 10 In preparation manuscripts with completed laboratory works

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#### *International Book Chapter*

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1. M. M. M. G. P. G. Mantilaka, W. P. S. L. Wijesinghe, D. M. S. N. Dissanayake, U. G. M. Ekanayake, A. Senthilnathan, “Current review on the utilization of nanoparticles for ceramic matrix reinforcement”, *Interfaces In Particle Reinforced Composites, Elsevier, 2019. In progress*

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#### *Refereed National Journals*

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1. T. B. N. S. Madugalla, M. M. M. G. P. G. Mantilaka, R. M. G. Rajapakse, H. M. T. G. A. Pitawala, D. G. G. P. Karunaratne, “Synthesis of Precipitated Calcium Carbonate: Potential use of Sri Lankan Marble”, *Journal of Geological Society of Sri Lanka* **15** (2013) 85-92.

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#### *Communications in International Conferences*

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1. M. M. M. G. P. G. Mantilaka, H. M. D. D. Dasanayake, D. G. G. P. Karunaratne, R. M. G. Rajapakse, H. M. T. G. A. Pitawala, “Hydrothermal synthesis of magnesium oxide nanoparticles from dolomite and rejected brines of salt industry as raw materials”, 4<sup>th</sup> International conference on Structural Engineering and Construction Management, Kandy, Sri Lanka, 13-15 December 2013.
2. W. P. S. L. Wijesinghe, M. M. M. G. P. G. Mantilaka, R. M. G. Rajapakse, R. P. V. J. Rajapakse, “Novel preparation of nanosized hydroxyapatite/poly(methyl methacrylate) nanocomposite from calcium sucrate”, 4<sup>th</sup> International conference on Structural Engineering and Construction Management, Kandy, Sri Lanka, 13-15 December 2013.
3. M. M. M. G. P. G. Mantilaka, H. M. T. G. A. Pitawala, D. G. G. P. Karunaratne, R. M. G. Rajapakse, “Stearic acid coated calcium carbonate nanocrystallites from dolomitic marbles for polymer industries”, Peradeniya University International Research Sessions, Faculty of Science, University of Peradeniya, Sri Lanka, 4-5 July 2014.
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