Dr. M. Jeyanthinath

ASSOCIATE PROFESSOR

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Educational Qualifications

M.Sc.Physics: Jun 1999-May2001, School of Physics, Madurai Kamaraj University, Madurai.
First Class

M.Sc.Physics: Jan 2002-May2004, National University of Singapore, Singapore.
First Class

Ph. D.Physics: Jun 2004-Sep 2007 Department of Physics, University of Oslo, Norway.
Thesis Title: Embedded semiconductor nanocrystals/nanoclusters in oxides

Post-doctoral fellow: Jan 2008– March 2008, (CNRS-lab) FacultédeSt-Jérôme University Paul Cezanne, Marseille, France.
Feb 2019 – Jan 2021, Department of Physics, University of Oslo, Oslo, Norway

Professional Experience: Teaching: 13Yrs; Research: 19Yrs (including PhD)

FIELD OFSPECIALIZATION

- Nanoscience and Nanotechnology
- Thermoelectric
- Renewable Energy Systems
- Semiconducting Materials & Oxides
- Materials for Biomedical applications
- Memory Devices
- Nonlinear Materials

RESEARCH SPECIALIZATION

- Photovoltaic
- Water treatment
- Photo catalysis
- Non-linear Materials
- opto-electronic devices
- Thermo-electric Materials
- Semiconductor Oxides
- Materials for biomedical (siddha medicine)

Program	Completed	Ongoing
Ph.D	6	6
M.Phil	19	-

PROFESSIONALEXPERIENCE

No	Institution	Position	From (date)	To (date)	Duration
1.	Madurai Kamaraj University	Associate Prof	2020	Till date	
2.	Madurai Kamaraj University	Assistant Prof	2010	2020	11 yrs
3.	Institute for Energy Technology, Norway	Scientist	April 2008	March 2010	2yrs
4.	CNRS- lab FacultédeSt-Jérôme University Paul Cezanne	Post-Doctoral	Jan 2008	March 2008	3months
	University of Oslo	Researcher	Aug 2007	Dec 2007	4months

RESEARCH COLLABORATION (BOTH NATIONAL & INTERNATIONAL)

Name of the Collaborator	Institute	Collaboration Details	Collaboration Output (Papers/Patents/ Research/Online)
Prof. Terje Finstad	University of Oslo, Norway	Metal oxides, Thermoelectric, HEA, Energy Materials	Research, Papers
Prof. K. Rademann	The Humboldt University of Berlin, Germany	Thermoelectric	Research, Papers
Dr. Smagul Karazhanov	Institute For Energy Technology, Norway	Computational Materials	Research, Papers
Dr. Joshua M Pearce	Michigan Technological University, USA	Energy Materials	Research, Papers
Dr. Suresh Sagadevan	University of Malaya, Kuala Lumpur, Malaysia	Nanotechnology and Catalysis Research	Research, Papers
Dr.V. Vishnukanthan	University of Oslo, Norway	Metal oxide	Research, Papers
Dr. Ponniah Vajeeston	University of Oslo, Norway	Computational Physics	Research, Papers
Dr. Jephias Gwamuri	National University of Science and Technology, Bulawayo, Zimbabwe	Plasmonics	Research, Papers
Dr. Isabell B	CNRS Lab, France	Surface science	Research, Papers
Dr. M. Saravanan	CSIR- NPL, Delhi	High Entropy Alloys	Research, Papers
Dr. Sunil Singh Kushvaha	CSIR- NPL, Delhi	Surface Science	Research, Papers
Dr. S. Arumugam	CHPR, Bharathidasan University, Trichy	Material Characterization	Research, Papers
Dr.M. Umadevi	Mother Teresa women's University, Kodaikanal	Material Characterization	Research, Papers
Dr. V. Sasirekha	Avinashilingam University, Coimbatore	Solar cell Materials And Device	Research, Papers
Dr. Kevin Bethke	BC Berlin Catalyst GmbH, Germany	Thermoelectrical Properties	Research, Papers

COMPLETED RESEARCH PROJECTS:

1	Fabrication of porous Silicon and tailoring its application towards photovoltaic device	DST SERB	24,20,000	2012
2	Nanostructured oxide based materials for thermoelectric applications	DST DAAD	8,90,000	2017

Ongoing Research Projects:

	Title of the Project	Funding Agency	Total Grant	
1	Development of Functional Nanomaterials for Green Energy and Environment	RUSA	8,34,000	2022
2	High Entropy Alloys for Energy applications by stabilization the entropy [HEATER]: A low temperature approach ".	SERB	44,00,000	2023
3	"Role of ion beams in Dye sensitized solar cells".	IUAC	6,03,000	2023

HONORS/AWARDS/RECOGNITIONS

- Young Scientist Award-DST India
- Raman Fellowship Award-UGC India
- DST-DAAD2017
- National University of Singapore Research fellowship Award
- Norwegian Research fellowship award
- CNRS-France Research fellow award

PUBLICATIONS

1. Gayathri, V., V. Ragavendran, N. Rajamanickam, **J. Mayandi**, and P. Nithiananthi. "Mixed phase nanoarchitectonics of NiS@ SnS@ Ni3Sn2S2 as a tetrafunctional catalyst for dye-sensitized solar cells, supercapacitors, and water splitting applications." *Journal of Energy Storage* 70 (2023): 107952. https://doi.org/10.1016/j.est.2023.107952
2. Pavithra, S., T. C. Bessy, M. R. Bindhu, Ragavendran Venkatesan, R. Parimaladevi, Mohammed Mujahid Alam, **Jeyanthinath Mayandi**, and M. Umadevi. "Photocatalytic and photovoltaic applications of green synthesized titanium oxide (TiO2) nanoparticles by Calotropis gigantea extract." *Journal of Alloys and Compounds* 960 (2023): 170638. https://doi.org/10.1016/j.jallcom.2023.170638
3. Khyrun, SM Fathima, A. Jegatha Christy, **Jeyanthinath Mayandi**, and Suresh Sagadevan. "Photo-triggered antibacterial and catalytic activities of solution

combustion synthesized CeO2/NiO binary nanocomposite." *Inorganic Chemistry Communications* 153 (2023): 110860. https://doi.org/10.1016/j.inoche.2023.110860

4. Arulsamy, Andrew Das, Ragavendran Venkatesan, and **Jeyanthinath Mayandi**. "Strange electric resistivity and heat capacity of Fe (Mn, Si) compared to Fermi metals and non-metallic solids." (2023).
5. Ramaraj, Bhaviya Raj, Umadevi Mahalingam, Parimaladevi Ramasamy, Joshua M. Pearce, **Jeyanthinath Mayandi**, and Anuratha Mahalingam. "Environmental Remediation of Real Textile Dyeing Wastewater Under Visible Light and Inactivation of Pathogenic Bacteria Using ZnO/CuO Nano-Needles." *physica status solidi (a)* 220, no. 9 (2023): 2200607. https://doi.org/10.1002/pssa.202200607
6. Selvapriya, R., J. Vinodhini, T. Abhijith, V. Sasirekha, V. Ragavendran, Joshua M. Pearce, and **Jeyanthinath Mayandi**. "Fabrication of bimetallic inlaid working electrode for highly efficient dye sensitized solar cells." *Journal of Alloys and Compounds* 939 (2023): 168634. https://doi.org/10.1016/j.jallcom.2022.168634
7. Ramadevi, P., Ra Shanmugavadivu, Ragavendran Venkatesan, **Jeyanthinath Mayandi**, and Suresh Sagadevan. "Photocatalytic dye degradation efficiency and reusability of aluminium substituted nickel ferrite nanostructures for wastewater remediation." *Inorganic Chemistry Communications* 150 (2023): 110532. https://doi.org/10.1016/j.inoche.2023.110532
8. Lakshmi, C. Bhagya, S. Jeya Lakshmi, **Jeyanthinath Mayandi**, S. Anna Venus, R. Marnadu, X. Vasanth Winston, M. Aslam Manthrammel, and Mohd Shkir. "Probing novel photoanodes relying on CuBiSe/metal'oxides nanocomposites-based dye-sensitizing solar cells." *Surfaces and Interfaces* 37 (2023): 102638. https://doi.org/10.1016/j.surfin.2023.102638
9. Arulsamy AD, Venkatesan R, **Mayandi J.** Strange electric resistivity and heat capacity of Fe (Mn, Si) that obey Arulsamy fermions. Available at SSRN 4421325. 2023 Mar 25. https://dx.doi.org/10.2139/ssrn.4421325
10. Gowtham SM, Dhivya R, Muthulakshmi L, Sureshkumar S, Ashraf M, Pandi M, **Mayandi J**, Annaraj J, Sagadevan S. Environmentally benign and biocompatible CuO@ Si core-shell nanoparticles: As electrochemical l-cysteine sensor, antibacterial and anti-lung cancer agents. Ceramics International. 2023 Mar 15: 49(6), 10023-31. https://doi.org/10.1016/j.ceramint.2022.11.182
11. Mahalakshmi S, **Mayandi J**, Sagadevan S, Ragavendran V, Manikandan K, Arumugam S, Pearce JM, Venkatachalapathy V. Enriched second-harmonic generation in meta-phase barium titanate nanostructures synthesized by sol-gel hydrothermal method. Journal of Alloys and Compounds. 2023 Mar 5: 936, 168171. https://doi.org/10.1016/j.jallcom.2022.168171
12. Sasikala R, Kandasamy M, Suresh S, Ragavendran V, Sasirekha V, Pugazhenthiran N, Murugesan S, Pandian SA, Ansari MN, **Mayandi J**. Strontium titanate perovskite embedded reduced graphene oxide photoanode for dye-sensitized solar cell. Optical Materials. 2023 Feb 1, 136, 113464. https://doi.org/10.1016/j.optmat.2023.113464
13. Tharuman, S., Balakumar, V., Vinodhini, J., Karthikeyani, R., **Mayandi, J.,** Sasirekha, V. and Pearce, J.M., 2023. Visible light driven photocatalytic performance of 3D TiO2/g-C3N5 nanocomposite via Z-scheme charge transfer promotion for water purification. *Journal of Molecular Liquids*, *371*, p.121101. https://doi.org/10.1016/j.molliq.2022.121101
14. A Muthu Kumar, V Ragavendran, **J Mayandi**, K Ramachandran, K Jayakumar Phase dependent electrochemical characteristics of bismuth ferrite: A bifunctional

electrocatalyst for Supercapacitors and Dye-Sensitized Solar Cells: Colloids and Surfaces A: Physicochemical and Engineering Aspects 2023, 656, 130529 https://doi.org/10.1016/j.colsurfa.2022.130529

15. I John Peter, N Rajamanickam, V Ragavendran, **J Mayandi**, P Nithiananthi, M1-xSb1-ySδ (M= Ni, Cu, Co) ternary metal sulfides: Emerging candidates for I3-reduction in bifacial dye-sensitized solar cells, Materials Science and Engineering: B, **2023**, 287, 116142 https://doi.org/10.1016/j.mseb.2022.116142
16. Selvapriya, R., Vinodhini, J., Abhijith, T., Sasirekha, V., Ragavendran, V., Pearce, J. M., & **Mayandi, J.** (2023). Fabrication of bimetallic inlaid working electrode for highly efficient dye sensitized solar cells. *Journal of Alloys and Compounds*, *939*, 168634. https://doi.org/10.1016/j.jallcom.2022.168634
17. Ramadevi, P., Shanmugavadivu, R., Venkatesan, R., **Mayandi, J.,** & Sagadevan, S. (2023). Photocatalytic dye degradation efficiency and reusability of aluminium substituted nickel ferrite nanostructures for wastewater remediation. *Inorganic Chemistry Communications*, *150*, 110532. https://doi.org/10.1016/j.inoche.2023.110532
18. Tharuman, S., Balakumar, V., Vinodhini, J., Karthikeyani, R., **Mayandi, J.,** Sasirekha, V., & Pearce, J. M. (2023). Visible light driven photocatalytic performance of 3D TiO2/g-C3N5 nanocomposite via Z-scheme charge transfer promotion for water purification. *Journal of Molecular Liquids*, *371*, 121101. https://doi.org/10.1016/j.molliq.2022.121101
19. Sasikala, R., Kandasamy, M., Suresh, S., Ragavendran, V., Sasirekha, V., Pugazhenthiran, N. & **Mayandi, J.** (2023). Strontium titanate perovskite embedded reduced graphene oxide photoanode for dye-sensitized solar cell. *Optical Materials*, *136*, 113464.https://doi.org/10.1016/j.optmat.2023.113464
20. Gowtham, S. M., Dhivya, R., Muthulakshmi, L., Sureshkumar, S., Ashraf, M., Pandi, **M. Jeyanthinath** & Sagadevan, S. (2023). Environmentally benign and biocompatible CuO@ Si core-shell nanoparticles: As electrochemical l-cysteine sensor, antibacterial and anti-lung cancer agents. *Ceramics International*, *49*(6), 10023-10031. https://doi.org/10.1016/j.ceramint.2022.11.182
21. A Muthu Kumar, V Ragavendran, **J Mayandi**, K Ramachandran, K Jayakumar, Phase dependent electrochemical characteristics of bismuth ferrite: A bifunctional electrocatalyst for Supercapacitors and Dye-Sensitized Solar Cells, Colloids and Surfaces A: Physicochemical and Engineering Aspects, **2023**, 656, 130529 https://doi.org/10.1016/j.colsurfa.2022.130529
22. Selvaraj Mahalakshmi, **Jeyanthinath Mayandi**, Suresh Sagadevan, V Ragavendran, K Manikandan, Sonachalam Arumugam, Joshua M Pearce, Vishnukanthan Venkatachalapathy, Enriched second-harmonic generation in meta-phase barium titanate nanostructures synthesized by sol-gel hydrothermal method, Journal of Alloys and Compounds, **2023**, 936, 168171 https://doi.org/10.1016/j.jallcom.2022.168171
23. R. Venkatesan, **J. Mayandi**, S. Sagadevan, V. Venkatachalapathy, Solvothermal synthesis and characterization of Iron oxide nanoparticles, Malay. NANO Int. J. Vol.2 (2) **2022** 27 – 35, https://doi.org/10.22452/mnij.vol2no2.3
24. Ragavendran Venkatesan, Sheik Moideen Thaha Sheik Kadar Maideen, Saravanan Chandhiran, Sunil Singh Kushvaha, Suresh Sagadevan, Vishnukanthan Venkatachalapathy, **Jeyanthinath Mayandi**, Fabrication and Characterization of Si/PEDOT: PSS-Based Heterojunction Solar Cells, Electronics **2022**, 11, 4145. https://doi.org/10.3390/electronics11244145
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26. R Sasikala, M Kandasamy, V Ragavendran, S Suresh, V Sasirekha, S Murugesan, Suresh Sagadevan, **M Jeyanthinath**, Perovskite zinc titanate-reduced graphene oxide nanocomposite photoanode for improved photovoltaic performance in dye-sensitized solar cell, Physica B: Condensed Matter, 646, **2022**, 414300https://doi.org/10.1016/j.physb.2022.414300
27. R Selvapriya, J Vinodhini, T Abhijith, V Sasirekha, V Ragavendran, Joshua M Pearce, **Jeyanthinath Mayandi**, Fabrication of bimetallic inlaid working electrode for highly efficient dye sensitized solar cells, Journal of Alloys and Compounds Volume 939, 5, 2023, 168634. https://doi.org/10.1016/j.jallcom.2022.168634
28. **J Mayandi**, TG Finstad, Ø Dahl, P Vajeeston, M Schrade, OM Løvvik, S Diplas, PA Carvalho Thin films made by reactive sputtering of high entropy alloy FeCoNiCuGe: optical, electrical and structural properties,*Thin Solid Films*, 744, 139083 **(2022),** https://doi.org/10.1016/j.tsf.2022.139083
29. **J Mayandi**, TG Finstad, M Stange, GC Vásque, MF Sunding, OM Løvvik, S Diplas, PA Carvalho, Controlling the Electrical Properties of Reactively Sputtered High Entropy Alloy CrFeNiCoCu Films, *Journal of Electronic Materials*51:803–812 **(2022)**https://doi.org/10.1007/s11664-021-09343-3
30. **Jeyanthinath Mayandi**, Matthias Schrade, Ponniah Vajeeston, Marit Stange, Anna M Lind, Martin F Sunding, Jonas Deuermeier, Elvira Fortunato, Ole M Løvvik, Alexander G Ulyashin, Spyros Diplas, Patricia A Carvalho, Terje G Finstad, High entropy alloy CrFeNiCoCu sputter deposited films: Structure, electrical properties, and oxidation, *Journal of Vacuum Science & Technology A: Vacuum, Surfaces, and Films,* 40, 2, 023402, **(2022),**https://doi.org/10.1116/6.0001394
31. **Mayandi, J.**, Finstad, T.G., Stange, M. et al. Controlling the Electrical Properties of Reactively Sputtered High Entropy Alloy CrFeNiCoCu Films. *J. Electron. Mater.* 51, 803–812 **(2022).**https://doi.org/10.1007/s11664-021-09343-3
32. **J Mayandi**, M Dias, M Stange, Anna Lind, Martin Fleissner Sunding, AC Cerdeira, M Schrade, BD Belle, TG Finstad, LCJ Pereira, Spyros Diplas, Patricia Almeida Carvalho, Partial oxidation of high entropy alloys: A route toward nanostructured ferromagnets, *Materialia*, 20, **(2022),** 101250 https://doi.org/10.1016/j.mtla.2021.101250
33. SM Gowtham, R Dhivya, L Muthulakshmi, S Sureshkumar, M Ashraf, M Pandi, **J Mayandi**, J Annaraj, Suresh Sagadevan, Environmentally benign and biocompatible CuO@ Si core-shell nanoparticles: As electrochemical l-cysteine sensor, antibacterial and anti-lung cancer agents, Ceramics International, 2022, https://doi.org/10.1016/j.ceramint.2022.11.182
34. Sharmila Tharuman, Vellaichamy Balakumar, J Vinodhini, R Karthikeyani, **J Mayandi**, V Sasirekha, JM Pearce, Visible light driven photocatalytic performance of 3D TiO2/g-C3N5 nanocomposite via Z-scheme charge transfer promotion for water purification, Journal of Molecular Liquids, 371, **2023**, 121101. https://doi.org/10.1016/j.molliq.2022.121101
35. S Mahalakshmi, **J Mayandi,** Suresh Sagadevan, P Vajeeston, V Venkatachalapathy, Heavy metal oxide glasses and their optoelectronic applications (infrared transmission, luminescence, nonlinear optical susceptibilities, etc.), Metal Oxides for Optoelectronics and Optics-Based Medical Applications, Metal Oxides, 2022, 205-240, https://doi.org/10.1016/B978-0-323-85824-3.00012-9
36. S Anitha, R Selvapriya, R Shankar, B Nalini, V Sasirekha, **J Mayandi**, Evidence of charge donation through synergistic effect of bioconjugated silver nanoparticles with flavanols accomplishing augmented antimicrobial and antioxidant activities, Journal of Molecular Liquids 368, 120754.https://doi.org/10.1016/j.molliq.2022.120754
37. Vinodhini Jayapal, Selvapriya Rangasamy, Sasirekha Venkidusamy, Ragavendran Venkatesan, **Jeyanthinath Mayandi**, Joshua M Pearce, The use of urea as an N-doping

3D hierarchical preserving agent for titanium dioxide nanostructures tailored for dye-sensitized solar cells, International Journal of Energy Research, 46, 7,**(2022)**, 9533-9548, https://doi.org/10.1002/er.7823

38. Craig A Ekstrum, Ragavendran Venkatesan, Chito Kendrick, Moshe Einav, Paramasivam Sivaprakash, **Jeyanthinath Mayandi**, Sonachalam Arumugam, Joshua M Pearce, The Effects of Substrate Temperature on the Growth, Microstructural and Magnetic Properties of Gadolinium-Containing Films on Aluminum Nitride, *Surfaces* **(2022)**, *5*(2), 321-333; https://doi.org/10.3390/surfaces5020024
39. K Safna, Peediyekkal Jayaram, M Sabna, Prasoon Prasannan, **J Mayandi**, PP Pradyumnan, Microstructure profiling, lattice dynamics, and morphological studies on multi-excitonic vanadium bismuth oxide compound systems, J Aust Ceram Soc **(2022).** https://doi.org/10.1007/s41779-022-00766-7
40. E Abel Noelson, M Anandkumar, M Marikkannan, V Ragavendran, Annett Thorgersen, Suresh Sagadevan, Jamespandi Annaraj, **Jeyanthinath Mayandi**, Excellent photocatalytic activity of Ag_2O loaded ZnO/NiO nanocomposites in sun-light and their biological applications, Chemical Physics Letters**,** 796, **(2022)**, 139566, https://doi.org/10.1016/j.cplett.2022.139566
41. Nithya Davis, R Althaf, Sreepriya Muraleedharan, Vijayaraghavan Thiruvenkatam, **Jeyanthinath Mayandi,** Terje G Finstad, Ihar Razanau, Uladzimir Novikau, Anuradha M Ashok, Grain boundary engineered, multilayer graphene incorporated LaCoO3 composites with enhanced thermoelectric properties, Ceramics International. 48, 17, **(2022)**, 24454-24461, https://doi.org/10.1016/j.ceramint.2022.05.054
42. John Peter Isaqu, Ragavendran Vnekatesan, Rajamanickam Nagalingam, **Jeyanthinath Mayandi**, Nithiananthi Perumal, Bi_2S_3 can do it all: Sensitizer, counter electrode, and supercapacitor for symmetric solar cell assisted photo-supercapacitor, International Journal of Energy Research 46, 8, Special Issue: Potential Energy Solutions (IEEES-12) **(2022)** 11065-11078, https://doi.org/10.1002/er.7908
43. Brindha VG Mohan, Shobhana V Gnanapanditha Mohan, Kottaisamy Muniasamy, **Jeyanthinath Mayandi**, Vasu Veerapandy, Influence of polymer initiators in light guiding in a cyanobacterium incorporated (poly)-methyl methacrylate matrix, *Materials Letters***,** 314, (**2022**), 131845. https://doi.org/10.1016/j.matlet.2022.131845
44. R Selvapriya, T Abhijith, V Ragavendran, V Sasirekha, VS Reddy, JM Pearce, **J Mayandi**, Impact of coupled plasmonic effect with multishaped silver nanoparticles on efficiency of dye sensitized solar cells, *Journal of Alloys and Compounds, 894, 15, **(2022),** 162339,* https://doi.org/10.1016/j.jallcom.2021.162339
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46. R Sasikala, M Kandasamy, S Suresh, V Ragavendran, V Sasirekha, JM Pearce, S Murugesan, **J Mayandi,** Enhanced dye-sensitized solar cell performance using strontium titanate perovskite integrated photoanodes modified with plasmonic silver nanoparticles, *Journal of Alloys and Compounds*, (2021)889,161693, https://doi.org/10.1016/j.jallcom.2021.161693
47. V. Kavitha, V. Ragavendran, N. Sethupathi, Suresh Sagadevan, V. Sasirekha, J.M. Pearce and **Jeyanthinath Mayandi** , Microwave-Assisted Synthesized Gadolinium Doped Barium Strontium Titanate Nanostructures: Structural and Optical Properties for DSSC Applications, *Malay. NANO Int. J. Vol. 1,1 (2021),*
48. Brindha VG Mohan, **Jeyanthinath Mayandi**, Kottaisamy Muniasamy, Vasu Veerapandy, Assessment of the design efficacy of Eu2+ ion embedded thick scattering

layers for operational photovoltaics, Applied Surface Science Advances, 4,(2021), 100067, https://doi.org/10.1016/j.apsadv.2021.100067

49. Saravanan Vanal Krishnan, Muthumanickam Muthukaruppan Ambalam, Ragavendran Venkatesan, **Jeyanthinath Mayandi**, Vishnukanthan Venkatachalapathy, Technical Review: Improvement of Mechanical properties and suitability towards Armor Applications–Alumina Composites, Ceramics International, 2021. https://doi.org/10.1016/j.ceramint.2021.05.146
50. **J Mayandi**, RK Madathil, C Abinaya, K Bethke, V Venkatachalapathy, K Rademann, T Norby, TG Finstad Al-doped ZnO prepared by co-precipitation method and its thermoelectric characteristics, Materials Letters, 288, (**2021**), 129352, https://doi.org/10.1016/j.matlet.2021.129352
51. Ramuvel Muthuvel, Manimaran Arunachalam, Vinayagar Karanthamalai, Ragavendran Venkatesan, Vishnukanthan Venkatachalapathy, **Jeyanthinath Mayandi**, Mechanical, Structural and Optical Properties of the Silicon Nanowire Arrays, Zeitschrift für Physikalische Chemie, 20191588, eISSN 2196-7156, **Impact factor** 2.03 https://doi.org/10.1515/zpch-2019-1588
52. R Selvapriya, V Sasirekha, P Vajeeston, Joshua M Pearce, **J Mayandi**, Reaction induced multifunctional TiO2 rod/particle nanostructured materials for screen printed dye sensitized solar cells, Ceramics International, 47, 6, **(2021)**, 8094-8104, https://doi.org/10.1016/j.ceramint.2020.11.164
53. A Muthu Kumar, I John Peter, K Ramachandran, **J Mayandi**, K Jayakumar, Influence of Al-Cu doping on the efficiency of BiFeO3 based perovskite solar cell (PSC), Materials Today: Proceedings, 35, 1, **2021**, 62-65, https://doi.org/10.1016/j.matpr.2019.05.454
54. Saravanan Vanal Krishnan, Muthu Manickam Muthukaruppan Ambalam, Ragavendran Venkatesan, Muthukumar Arivalagan, Vishnukanthan Venkatachalapathy, **Jeyanthinath Mayandi**, Reinforcement of alumina with carbon nano cones and characterization, Materials Today: Proceedings, 35, 1, **2021**, 57-61 https://doi.org/10.1016/j.matpr.2019.05.442
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58. Ragavendran Venkatesan, **Jeyanthinath Mayandi**, Rune Søndenå, Terje G Finstad, Vishnukanthan Venkatachalapathy, Investigating antireflection properties of hybrid silicon nanostructures comprising rod-like nanopores and nano-textured surface, Materials Letters, 275, (2020), 128087,
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PAPERS PRESENTED IN CONFERENCES/SEMINARS/SYMPOSIA

No.	Name of the Conference	Date	Place	Title	Author(s)
1.	International conference on materials for advanced technologies (ICMAT 2023)	26-30 June 2023	Singapore	Facile Hydrothermal Synthesis and Characterization of Vanadium Pentoxide Hollow Spheres on Activated Carbon Template as an Electrode Material for Hybrid Supercapacitor	**Jeyanthinath Mayandi,** Baby Sri Pratha Govindaraj, Allwin Rajesh Somu, Ragavendran Venkatesan, Annaraj Jamespandi, Terje Finstad
2.	International conference on materials for advanced technologies (ICMAT 2023)	26-30 June 2023	Singapore	Formation of 2D Hierarchical Si Nanostructure in Upgraded Metallurgical Grade (UMG) Wafers by Metal Assisted Chemical Etching	Ragavendran Venkatesan, **Jeyanthinath Mayandi**, Terje Finstad, Vishnukanthan Venkatachalapathy, Joshua Pearce
3.	International conference on materials for advanced technologies (ICMAT 2023)	26-30 June 2023	Singapore	Thermoelectric Multi-pnictogens Semiconductors: Cu Doping of ZnSbAs Alloys	Terje Finstad, **Jeyanthinath Mayandi**, Ole Karlsen

4.	International conference on materials for advanced technologies (ICMAT 2023)	26-30 June 2023	Singapore	Effect of Annealing on the Structural, Optical Properties of Barium Titanate Nanoparticles and its Impact on Second Harmonic Generation	Ragavendran Venkatesan, Joshua Pearce, **Jeyanthinath Mayandi**, Vishnukanthan Venkatachalapathy, Mahalakshmi S
5.	International conference on materials for advanced technologies (ICMAT 2023)	26-30 June 2023	Singapore	Influence of Ambient Combinations on Electrical and Optical Properties of DC Magnetron Sputter Deposited ITO Films for Dye Sensitized Solar Cells	**Jeyanthinath Mayandi**, Marikannan Murugesan, Ramar Alagar, Sasirekha Sasirekha, Vishnukanthan Venkatachalapathy, Jephias Gwamuri, Joshua Pearce
6.	International conference on materials for advanced technologies (ICMAT 2023)	26-30 June 2023	Singapore	TiFe2Si Thin Films	Terje Finstad, **Jeyanthinath Mayandi**, Anuj Pokle, Patricia Almeida, Ole Martin Løvvik, Nayereh Soltani
7.	Three-days International Workshop /Summer School & Course Preparation on "Solar Water Splitting and Artificial Photosynthesis" **SWAP 2023**	05 -07 June 2023	MKU Madurai	Investigating the optical and morphological properties of silicon by MACE	Saravanan Chandran, Gubandran P., Ragavendran Venkatesan, **J, Mayandi**
8.	Three-days International Workshop /Summer School & Course Preparation on "Solar Water Splitting and Artificial Photosynthesis" **SWAP 2023**	05 -07 June 2023	MKU Madurai	Evaluation of water quality and heavy metal contamination in ground water	M. Dharani, S. Muthu Kumar, V. Ragavendran, **J. Mayandi**
9.	Three-days International Workshop /Summer School & Course Preparation on "Solar Water Splitting and Artificial Photosynthesis" **SWAP 2023**	05 -07 June 2023	MKU Madurai	Effect of La+3 and Nd+3 ions doing in NiFe2O4 nano ferrites towards dye sensitized solar cell applications.	D Karnamaharaja, M. Prabhub, N. Leninc, V Ragavendrana, **J Mayandi**
10.	Three-days International Workshop /Summer School & Course Preparation on "Solar Water Splitting and Artificial Photosynthesis" **SWAP 2023**	05 -07 June 2023	MKU Madurai	Influence of Annealing temperature in Solvothermally synthesized NiCo2O4 spinel oxide nanostructures and their impact on capacitance behavior	Nandha Kumar S,Baby Sri Pratha G, Ragavendran Venkatesan, **J Mayandi**

11.	Three-days International Workshop /Summer School & Course Preparation on "Solar Water Splitting and Artificial Photosynthesis" **SWAP 2023**	05 -07 June 2023	MKU Madurai	Electrochemically Prepared Porous Silicon Nanostructures for Photocatalytic Investigation under Direct Sunlight and UV irradiation	Ragavendran V, **Jeyanthinath Mayandi**, Terje Finstad, Vishnukanthan Venkatachalapathy
12.	Three-days International Workshop /Summer School & Course Preparation on "Solar Water Splitting and Artificial Photosynthesis" **SWAP 2023**	05 -07 June 2023	MKU Madurai	Stain etched Silicon Nanoparticles for Biomedical Applications	Selva Ganesh V,Ragavendran Venkatesan, Vishnukanthan Venkatachalapathy S. Murugesan, **Jeyanthinath Mayandi**
13.	Three-days International Workshop /Summer School & Course Preparation on "Solar Water Splitting and Artificial Photosynthesis" **SWAP 2023**	05 -07 June 2023	MKU Madurai	Photocatalytic degradation of methylene blue using cobalt doped nickel oxide nanoparticles	R. Sasikala, V. Ragavendran and **J. Mayandi**
14.	Three-days International Workshop /Summer School & Course Preparation on "Solar Water Splitting and Artificial Photosynthesis" **SWAP 2023**	05 -07 June 2023	MKU Madurai	Electrochemic l Investigation of Solvothermally synthesized Nickel Cobalt Thiospinel (NiCo2S4) Nanosphere	Baby Sri Pratha G, Allwin Rajesh S, Ragavendran V, Annaraj J, **J Mayandi**
15.	Three-days International Workshop /Summer School & Course Preparation on "Solar Water Splitting and Artificial Photosynthesis" **SWAP 2023**	05 -07 June 2023	MKU Madurai	Encapsulation of YHO film with polysilazane polymer for photochromic window application	Vinoth Kumar K, Elizaveta Shmagina, Sergei Bereznev, **J Mayandi** and, S. Zh. Karazhanov
16.	Indo – Norwegian International online conference on Functional mAterials For energy, environment And biOmedical applicatioNs" (FARAON - 2022)	02 -04 Feb 2020	LGD online platform	Micro-structural Characterization and hardness studies of Alumina based Composites	Saravanan Vanal Krishnan, Muthumanickam Muthukaruppan Ambalam, Ragavendran Venkatesan, Vishnukanthan Venkatachalapathy, **Jeyanthinath Mayandi**
17.	Indo – Norwegian International online conference on Functional mAterials For energy, environment And biOmedical applicatioNs" (FARAON - 2022)	02 -04 Feb 2020	LGD online platform	Rutile, Anatase and mixed phases of TiO2 nanoparticles is investigated for the Effective Photocatalytic activity	S. Vishnu Priya, E. Abel Noelson, Athira Vijayan, V.Ragavendran, **J.Mayandi**, J. Annaraj

18.	Indo – Norwegian International online conference on Functional mAterials For energy, environment And biOmedical applicatioNs" (FARAON - 2022)	02 -04 Feb 2020	LGD online platform	Green Synthesis of Titanium Oxide (TiO2) Nanoparticles by Calotropis Gigantea Extract	S. Pavithra, V. Ragavendran, E. Abel Noelson, **Jeyanthinath Mayandi**, M. Uma devi
19.	Indo – Norwegian International online conference on Functional mAterials For energy, environment And biOmedical applicatioNs" (FARAON - 2022)	02 -04 Feb 2020	LGD online platform	Chalcogenide Hybrid Quantum dots for Biomedical and Heavy Metal Sensors	A. Poongodi, V. Ragavendran, E. Abel Noelson, S. Vishnu priya, M. Umadevi, **Jeyanthinath Mayandi**, R. Parimaladevi
20.	Indo – Norwegian International online conference on Functional mAterials For energy, environment And biOmedical applicatioNs" (FARAON - 2022)	02 -04 Feb 2020	LGD online platform	The effect of Calotropis Gigantea Extract in the preparation of Nickel Oxide Nanoparticles	R.Abirami, V. Ragavendran, E. Abel Noelson, **Jeyanthinath Mayandi**, M. Umadevi
21.	Indo – Norwegian International online conference on Functional mAterials For energy, environment And biOmedical applicatioNs" (FARAON - 2022)	02 -04 Feb 2020	LGD online platform	2D Sheet like of Ni-doped CuCo2O4 as electrode material for high performance energy storage applications	J. Jerries Infanta, P. Sivaprakash, G. Baby Sri Pratha, V. Ragavendran, J. Annaraj, **Jeyanthinath Mayandi,** S. Arumugam
22.	Indo – Norwegian International online conference on Functional mAterials For energy, environment And biOmedical applicatioNs" (FARAON - 2022)	02 -04 Feb 2020	LGD online platform	Discussion on structural & optical properties of binary metalselenide/Nb2O5 nanocomposite synthesized by hydrothermal method	C.Bhagya Lakshmi, Athira Vijayan, V.Ragavendran, **Jeyanthinath Mayandi,** Dr.S.Anna Venus
23.	Indo – Norwegian International online conference on Functional mAterials For energy, environment And biOmedical applicatioNs" (FARAON - 2022)	02 -04 Feb 2020	LGD online platform	Effect of Copper doping on Strontium Titanate Perovskite Oxide material for Energy Storage Application	Baby Sri Pratha G, Jerries Infanta J, Ragavendran Venkatesan, Sivaprakash P,Arumugam S, Annaraj J, **J Mayandi**
24.	Indo – Norwegian International online conference on Functional mAterials For energy, environment And biOmedical applicatioNs" (FARAON - 2022)	02 -04 Feb 2020	LGD online platform	Strontiumtitanate perovskite oxide embedded reduced graphene oxide for efficient electron capturing photoanode for dye-sensitized solar cell	Sasikala.R, Kandasamy. M, Ragavendran.V, Sasirekha.V, Murugesan.S, **Mayandi.J**

25.	Indo – Norwegian International online conference on Functional mAterials For energy, environment And biOmedical applicatioNs" (FARAON - 2022)	02 -04 Feb 2020	LGD online platform	An Attempt to Tailor the Properties of Si/TiO2 Nanomaterials for Photoelectrochemical Applications	Athira Vijayan, G.Baby Sri Pratha, V. Ragavendran, **Jeyanthinath Mayandi,** Smagul Karazhanov
26.	International Conference On Advanced Materials And Processes For Defense Applications	23 - 25 Sep 2019	Hyderabad	Synthesis of Alumina – Silicon Carbide Composites, Characterization and Physical properties	Saravanan Vanal Krishnan, Muthumanickam Muthukaruppan Ambalam, Ragavendran Venkatesan, M Saravanan, Shusanthika , Vishnukanthan Venkatachalapathy, **Jeyanthinath Mayandi**
27.	"International conference on Advanced Materials for Clean Energy and Health Applications (AMCEHA)-2019 at University of Jaffna, Sri Lanka.	Feb 06 -08, 2019	Sri Lanka.	"Catalytic and magnetic properties of yellow and red iron oxide for water splitting"	Ragavendran Venkatesan, P. Siva prakash, S. Arumugam, Vishnukanthan Venkatachalapathy, **Jeyanthinath Mayandi**
28.	"International conference on Advanced Materials for Clean Energy and Health Applications (AMCEHA)-2019 at University of Jaffna, Sri Lanka.	Feb 06 -08, 2019	Sri Lanka.	High aspect ratio silicon nanostructures formed by MACE for chemical and biological sensors	Ramuvel M, Manimaran A,Ragavendran Venkatesan, Vishnukanthan Venkatachalapathy, **Jeyanthinath Mayandi**
29.	"International conference on Advanced Materials for Clean Energy and Health Applications (AMCEHA)-2019 at University of Jaffna, Sri Lanka.	Feb 06 -08, 2019	Sri Lanka.	Effect of annealing on phase transition and its impact on second harmonic generation in barium titanate nanopowder for DSSC solar cell applications	S. Mahalakshmi, V. Ragavendran, V. Vishnukanthan and **J. Mayandi**
30.	"International conference on Advanced Materials for Clean Energy and Health Applications (AMCEHA)-2019 at University of Jaffna, Sri Lanka.	Feb 06 -08, 2019	Sri Lanka.	Toxicity of nanoparticles of CuO, ZnO, TiO2 and MWCNT on human pathogenic bacteria	V. Kavitha, V.Ragavendran, P. Suresh, V. Shanmughaiah, **J. Mayandi,**
31.	"International conference on Advanced Materials for Clean Energy and Health Applications (AMCEHA)-2019 at University of Jaffna, Sri Lanka.	Feb 06 -08, 2019	Sri Lanka.	Nano structured silicon as antireflection and emitter for Terrestrial solar cells	Ragavendran Venkatesan, Vishnukanthan Venkatachalapathy, **Jeyanthinath Mayandi**
32.	International Conference on Exploring Nanostructures for Enhanced Power Conversion Efficiency of Solar Cells" (ICENES'19)	Jan 7-8, **2019**	GRI – Gandhigram	Structural and Electrical Studies of Zinc Doped Barium Strontium Titanate Ceramics	V. Kavitha, Mahalingam, V. Ragavendran **J. Mayandi** and N. Sethupathy

33.	International Conference on Exploring Nanostructures for Enhanced Power Conversion Efficiency of Solar Cells" (ICENES'19)	Jan 7-8, **2019**	GRI – Gandhigram	Optical and structural characterization of zinc doped barium stannate as photoanode in Dye Sensitized Solar Cell	R. Sasikala, S. Mahalakshmi, V. Ragavendran, V. Vishnukanthan and **J. Mayandi**
34.	International Conference on Exploring Nanostructures for Enhanced Power Conversion Efficiency of Solar Cells" (ICENES'19)	Jan 7-8, **2019**	GRI – Gandhigram	Study of the Mechanical Properties of the Silicon nanostructures formed by MACE	Ramuvel M, Manimaran A, Ragavendran Venkatesan, Vishnukanthan Venkatachalapathy, **Jeyanthinath Mayandi**
35.	International Conference on Exploring Nanostructures for Enhanced Power Conversion Efficiency of Solar Cells" (ICENES'19)	Jan 7-8, **2019**	GRI – Gandhigram	"Effects of silver catalyst concentration in metal assisted chemical etching of as cut upgraded metallurgical grade silicon"	Ragavendran Venkatesan, Vishnukanthan Venkatachalapathy, **Jeyanthinath Mayandi**
36.	International Conference on Exploring Nanostructures for Enhanced Power Conversion Efficiency of Solar Cells" (ICENES'19)	Jan 7-8, **2019**	GRI – Gandhigram	Reinforcement of Alumina with Carbon Nano Cones and Characterization	Saravanan Vanal Krishnan, Muthu Manickam Muthukaruppan Ambalam, Ragavendran Venkatesan, Muthukumar Arivalagan, Joshua Pearce**, Jeyanthinath Mayandi**
37.	International Conference on Exploring Nanostructures for Enhanced Power Conversion Efficiency of Solar Cells" (ICENES'19)	Jan 7-8, **2019**	GRI – Gandhigram	Comparative study on the influence of doping tin (IV) and tin (II) in barium titanate (BaTiO3) for different weight percentage and its impact on second harmonic generation	S. Mahalakshmi, V. Ragavendran, V. Vishnukanthanand **J. Mayandi**
38.	International Conference on Exploring Nanostructures for Enhanced Power Conversion Efficiency of Solar Cells" (ICENES'19)	Jan 7-8, **2019**	GRI – Gandhigram	Structural and Electrical Studies of Zinc Doped Barium Strontium Titanate Ceramics	A Muthukumar, John Peter ,**J. Mayandi**, K. Ramachandran, Jeyakumar,
39.	International Conference on Advanced Nanomaterials for Energy, Environment and Health care Applications (ANEH-2018)	Aug 31st and 1st Sep, **2018**	KSRCAS Tiruchengode,	Ambient Effects on Structural, Electrical and Optical Properties of Indium Tin Oxide Films for Solar Cell Applications	M. Marikkannan, **J. Mayandi**, J. Gwamuri[3], J. M. Pearce and A. Vijayshankar, and V. Vishnukanthan
40.	International Conference on Advanced Nanomaterials for Energy, Environment and Health care Applications (ANEH-2018)	Aug 31st and 1st Sep, **2018**	KSRCAS Tiruchengode,	Formation of porous silicon in as cut ultra-metallurgical grade wafer by electrochemical etching for photovoltaic application	Ragavendran Venkatesan[1]; **Jeyanthinath Mayandi[1,*]**; Vijayshankar Asokan[2,#]; Vishnukanthan Venkatachalapathy[3]
41.	International Conference on Advanced Nanomaterials for Energy, Environment and Health care Applications (ANEH-2018)	Aug 31st and 1st Sep, **2018**	KSRCAS Tiruchengode,	Effect of Solar Light Irradiation on the Size and Shape of Silver Nanoparticles Towards Solar Cell Applications	M. Marikkannan, E. Abel Neolson, V. Ragavendran, **J. Mayandi1,**, J.Annaraj, A. Vijayshankar, and V. Vishnukanthan

42.	International Conference on Recent Advances in Materials for Energy and Environment Remediation (RAMEER-2018)"	28-29 June **2018**.	VHNSN College Virudhunagar,	Presented a Research Paper Entitled "Effect of additives on morphological changes in ZnO nanomaterials",	**C. Abinaya** and J. Mayandi
43.	Advances in Functional and Exotic Materials MRSI-2018	14-16 Feb **2018**.	BDU, Tiruchi rappalli	Impact of Doping Copper (II)chloridein Barium titanate on modifying its structural and optical properties	S. Mahalakshmi,V. Ragavendran,V. Vishnukanthan and **J. Mayandi**
44.	Advances in Functional and Exotic Materials MRSI-2018	14-16 Feb **2018**	BDU, Tiruchi rappalli	MetalAssisted Chemical Etching of porous silicon for Photo Voltaic Application	RagavendranV, Muthu KumarA, VishnukanthanV, **J. Mayandi**
45.	International Conference on Advanced Functional Materials for Energy, Environment and Biomedical Applications (AFMEEB-2017)	11-12 Dec **2017**	MKU	Thermoelectric properties of pebble-like ZnO nanostructured particles: An attempt	C. Abinaya, V. Andrei, K. Bethke, K. Rademann and **J. Mayandi**
46.	International Conference on Advanced Functional Materials for Energy, Environment and Biomedical Applications (AFMEEB-2017)	11-12 Dec **2017**	MKU	Surface Morphological and Optical properties of Silicon Nanostructure using Metal Assisted Chemical Etching	Muthu Kumar Arivalagan, Ragavendran Venkatesan and **Jeyanthinath Mayandi**
47.	International Conference on Advanced Functional Materials for Energy, Environment and Biomedical Applications (AFMEEB-2017)	11-12 Dec **2017**	MKU	Metal assisted chemical etching of silicon with high aspect ratio for surface modification	Ragavendran Venkatesan, Muthu Kumar Arivalagan, Vishnukanthan Venkatachalapathy, **Jeyanthinath Mayandi**
48.	International Conference on Advanced Functional Materials for Energy, Environment and Biomedical Applications (AFMEEB-2017)	11-12 Dec **2017**	MKU	Influence of the Precursor on Tailoring the Morphological Changes in CopperOxide Quantum Dots	S. Mahalakshmi,,V. Ragavendran,V. Vishnukanthan and **J. Mayandi**
49.	Recent Advancements in Materials Science	10th Feb 2017	JA College for women' s, Periyakulam	Formation of Silicon nanostructures by MACE	A.Muthu Kumar, V.Ragavendran, **J.Mayandi***

50.	National conference on Recent Advances in the Application of Macromolecular materials (RAAMM 2017)	2nd & 3rd March 2017	GRI	Ag Catalysed MetalAssisted Chemical Etching of Porous Silicon	S. Durai Sitrarasu, A. Muthu Kumar, V. Ragavendran, **J.Mayandi***
51.	International Conference on Nanomaterials& Nanocomposites Synthesis, Properties& Applications	July 12-13, 2013	MTWU Kodaikanal,	Metal Doped Tin Oxide Thin Films	M. Marikkannan, Y. Rajapravin **J. Mayandi** and V. Vishnukanthan
52.	International Conference on Nanomaterials& Nanocomposites— Synthesis, Properties& Applications	July 12-13, 2013	MTWU Kodaikanal,	Synthesis and Characterization s of Zn Doped Tin Oxide (ZTO)Thin Films	M. Marikkannan, V. Thamodharan, **J. Mayandi** and V. Vishnukanthan
53.	International Conference on Nanomaterials& Nanocomposites— Synthesis, Properties& Applications	July 12-13, 2013	MTWU Kodaikanal,	Structural and Optical Investigation of Antimony Doped SnO2 Nanoparticles	M. Marikkannan, V. Ragavendran, V. Antony Raj and **J. Mayandi**
54.	Second international workshop on Advanced Functional Nanomaterials (SIWAN-2013)	Jan 28-30 2013	Anna University, Chennai	Influences of Sputtering Ambient on ITO Thin films	M. Marikkanna, **J.Mayandi,** M.Subramanian, V. Vishnukanthan
55.	International Conference on Nanomaterials for Frontier applications and Indo- Norwegian workshop on Advanced Materials for solar cell applications ICNFA – **2013**	July 10-12 2013	CIT Coimbatore	Preparation and characterization of SnO thin films towards photovoltaic applications	M. Marikkanna, **J.Mayandi,** V. Vishnukanthan
56.	International Conference on Nanomaterials for Frontier applications and Indo- Norwegian workshop on Advanced Materials for solar cell applications ICNFA – **2013**	July 10-12 2013	CIT Coimbatore	Cu and Ag doped ZnO Materials for dye sensitized solar Cell	**J. Mayandi**, A. Sivanantham, V. Thamotharan, V. Ragavendran, P. Jayabal, A. Siva and V. Vishnukanthan
57.	International Conference on Nanomaterials for Frontier applications and Indo- Norwegian workshop on Advanced Materials for solar cell applications ICNFA – **2013**	July 10-12 2013	CIT Coimbatore	Optical studies on chemically grown ZnO doped with Cu and Ag	A. Sivanantham, P. Jayabal, V. Thamotharan, V. Ragavendran, V. Vishnukanthan and **J. Mayandi**
58.	International Conference on Advanced Materials, processing and Devices,**2013**	July 15-16 2013	MKU	A comparative Study on wide band gap material (ZnO) and narrow band gap material (CuO)	S. Mahalakshmi, **J.Mayandi**, A. Sivanantham, K. Annapooraniand M. Jotheeswari

59.	International Conference on Advanced Materials, processing and Devices,**2013**	July 15-16 2013	MKU	Dye sensitized solar cell based on perovskite $SrTiO_3$	P. Jayabal, V.Sasirekha, **J. Mayandi**, K. Jeganathanand V. Ramakrishnan
60.	International Conference on Recent Trends in Advanced 10Materials (**ICRAM-2012**)	Feb, 20-22 2012	VIT University, Vellore	Investigation of structural and optical properties of SnO_2thin films by sol-gel method using different colloidal solutions	M. Marikkannan, **J. Mayandi**, V.Vishnukanthan
61.	International Conference on Recent Trends in Advanced 10Materials (**ICRAM-2012**)	Feb, 20-22 2012	VIT University, Vellore	Novel synthesis Of ZnO whiskers/ nanorods by direct electric heating	A.Sivanantham, M.Prabhu V.Vishnukanthan, **J. Mayandi**,
62.	International Conference on Recent Trends in Advanced 10Materials (**ICRAM-2012**)	Feb, 20-22 2012	VIT University, Vellore	Preparation and non-linear opitical studies of ZnO doped Barium Titanium oxide by sol-gel hydrothermal method	V. Ragavendran, S. Mahalakshmi V. Vishnukanthan, **J. Mayandi**
63.	International conference on New Materials and Devices for photovoltaic applications (**ICNMDP-2011**)	Feb, 10-12 2011	MKU, Madurai	Synthesis and characterization of silver nanoparticles towards the application of Photovoltaics	A.Jegatha Christy,M. Umadevi, **J.Mayandi**, AnnettThogersen
64.	International conference on Nanoscience and Nanotechnology(**ICNN-2011**)	July 6-8 2011	CIT, Coimbatore	Synthesis and characterization of silver Nanoparticles for solar cell Applications	E.A.Rajesh kumar, **J. Mayandi,** M. Prabhu, V. Vishnukanthan, G. Augustinas, V. Sasirekha
65.	International conference on Nanoscience and Nanotechnology(**ICNN-2011**)	July 6-8 2011	CIT, Coimbatore	Synthesis and Optical analysis on ZnO nanomaterials	M. Prabhu, **J. Mayandi,** V.Vishnukanthan, G. Augustinas
66.	International conference on Nanoscience and Nanotechnology(**ICNN-2011**)	July 6-8 2011	CIT, Coimbatore	Optical and structural analysis of chemically synthesized Barium Titanate ($BaTiO_3$)	S. Mahalakshmi, **J. Mayandi,** M. Prabhu, V. Vishnukanthan, G. Augustinas, V. Sasirekha
67.	International Conference on Advanced Materials (**ICAM-2011**)	Dec 12-16 2011	PSG, Coimbatore	Chemically Synthesized ZnO for Heterojunction Solar Cells	M. Prabhu, **J. Mayandi**, V .Vishnukanthan, G. Augustinas

BOOKPUBLISHED

1. S. Mahalakshmi, **J. Mayandi**, S. Suresh, P. Vajeeston and V. Vishnukanthan, Heavy-metal oxides glasses and its optoelectronic applications (infrared transmission, luminescence, nonlinear optical susceptibilities, etc.) Book Chapter accepted for publication in Elsevier Journal.
2. B. Jannani, **J. Mayandi,** Sunil Singh Kushvagha "Types of photodetectors and their applications" in Nova science publication, USA.

3. Muthusamy Anand* , Kannan Rangesh, Subbiah Padmapriya, **Mayandi Jeyanthinath**, Ragavendran Venkatesan**,** Seaweed Photosynthetic Pigments as Eco-Friendly Sensitizer for Dye-Sensitized Solar Cell, Chapter 40011, Elsevier

4. V. Sasirekha, **J. Mayandi**, J. Vinodhini, R. Selvapriya, P. Jayabal, **V. Ragavendran**,and J.M. Pearce, Impacts of working electrode parameters on dye-sensitized solar cell performance, book titled Nanomaterials for Energy and Sensor Applications in CRC press publication

5. Ragavendran Venkatesan**, Jeyanthinath Mayandi*,** Terje G Finstad*, J.M. Pearce, Vishnukanthan Venkatachalapathy, Nanostructured Silicon for Solar Energy conversion applications, book titled Nanomaterials for Energy and Sensor Applications in CRC press publication

MEMBERSHIPINACADEMIC BODIES

- MRSI (Life Member)
- SESI (Life Member)

CONFERENCE/WORKSHOP/SEMINAR/TRAINING ORGANIZED

Type	Name	Date(s)	Place	Role Played	Funding Agency
International	Three-days International Workshop /Summer School & Course Preparation on "Solar Water Splitting and Artificial Photosynthesis" **SWAP 2023**	05- 07, June 2023	MKU	Convener	RCN, Norway, CSIR, SERB, DRDO, RUSA MKU
International	Indian-Norwegian International Online Conference "Functional materials for energy, environment and biomedicalapplications" (FARAON-2022)	February 02 & 04, 2022	Online LGD platform	Convener	RCN, Norway, DRDO, RUSA MKU
International	International Virtual Conference "Supercapacitors and Batteries for Future Avenues (ICSBFA-2020).	September 08 & 09, 2020	online	Convener	-
International	International Webinar on Sample Preparation for TEM and Data Analysis	June 30th, 2020	online	Organizing Secretary	-
International	International Conferenceon AdvancedFunctional Materials forEnergy, Environmentand Biomedical application (AFMEEB2017)	Dec, 11-12, 2017	MKU	Coordinator	DRDO, CSIR, TNSCST UGC-SAP, DST PURSE, TTS, MKU
GIAN Course	SolarCells Materials and Modelling	May29 to June10, 2017	MKU	Coordinator	MHRD
International	Silver Jubilee Celebration and International conference on Advanced Materials Processing and Devices (AMPD -2013)	July15-16 2013,	MKU	Coordinator	DRDO PURSE MKU
International	Indo –Norwegian satellite meeting on Advancesin Solar Cell Materials & Technologies (SMASMT -2011)	17, Dec, 2011	MKU	Coordinator	RCN, Norway
International	International conference and Workshop on NewMaterials and Devices for PhotovoltaicApplication (ICWNMDP -2011)	10-12, Feb, 2011	MKU	Coordinator	MKU