

List of articles published in peer-reviewed international Journals, Book Chapters and Intellectual Property Rights (IPR) :

1. PS Venkatesh, N Kannan, MG Babu, G Paulraj, **K Jeganathan**, Transition metal-doped MoS₂ nanosheets for electrocatalytic hydrogen evolution reaction, *International Journal of Hydrogen Energy* (2022) <https://doi.org/10.1016/j.ijhydene.2022.01.109>
2. Gnanasekar Paulraj, **K. Jeganathan**, PROCESS FOR PRODUCING HYDROGEN THROUGH SEA WATER SPLITTING, **IPR Patent, IN 202141013963**, 29-3-2021.
3. G Paulraj, **K Jeganathan**, Two-Dimensional Materials for Renewable Energy Devices, *Encyclopedia of Applied Physics* © (2021) WILEY-VCH GmbH. DOI: <http://dx.doi.org/10.1002/352760043> Wiley Online Library
4. S Sadhasivam, A Gunasekaran, N Anbarasan, N Mukilan, **K Jeganathan**, CdS and CdSe nanoparticles activated 1D TiO₂ heterostructure nanoarray photoelectrodes for enhanced photoelectrocatalytic water splitting, *International Journal of Hydrogen Energy* Volume 46, Issue 52, 29 July (2021), Pages 26381-26390.
5. Paulraj Gnanasekar, Mathan Kumar Eswaran, Gayathri Palanichamy, Tien Khee Ng , Udo Schwingenschlöggl, Boon S. Ooi and **Jeganathan Kulandaivel** Sustained Solar-Powered Electrocatalytic H₂ Production by Seawater Splitting Using Two-Dimensional Vanadium Disulfide, *ACS Sustainable Chem. Eng.* (2021), 9, 25, 8572–8580
6. S Sadhasivam, N Anbarasan, M Mukilan, P Manivel, **K Jeganathan** Bi₂S₃ anchored ZnS/ZnO nanorod arrays photoanode for enhanced visible light driven photo electrochemical properties, *International journal of hydrogen energy* 45 (55), 30080-30090 (2020) <https://doi.org/10.1016/j.ijhydene.2020.08.026>
7. S Sadhasivam, A Gunasekaran, N Anbarasan, M Mukilan, **K Jeganathan** Topotactic transition of Pb_{0.99}Bi_{0.01}I₂ into CH₃NH₃Pb_{0.99}Bi_{0.01}I₃ on TiO₂ for high-performance visible light perovskite photodetector, *Materials Letters* 276, 128155 (2020) <https://doi.org/10.1016/j.matlet.2020.128155>
8. TS Sheena, R Dhivya, V Rajiu, **K Jeganathan**, M Palaniandavar, Ganesan Mathan, Mohammad Abdulkader Akbarsha, Folate-engineered mesoporous silica-encapsulated copper (II) complex [Cu (L)(dppz)]⁺: An active targeting cell-specific platform for breast cancer therapy, *Inorganica Chimica Acta* 510, 119783 (2020) <https://doi.org/10.1016/j.ica.2020.119783>
9. N Anbarasan, S Sadhasivam, M Mukilan, **K Jeganathan**, GaN nanowires grown by halide chemical vapour deposition as photoanodes for photo-electrochemical water oxidation reactions, *IOP Nanotechnology* 31 (42), 425405 (2020)
10. P Gnanasekar, KS Ranjith, P Manivel, YK Han, **K Jeganathan**, Hierarchical NbS₂/MoS₂-Carbon Nanofiber Electrode for Highly Efficient and Stable Hydrogen Evolution Reaction at All Ranges of pH, *ACS Applied Energy Materials* 3 (7), 6717-6725 (2020) <https://doi.org/10.1021/acsaem.0c00856>
11. Thankaraj Salammal Sheena, Vasanthan Devaraj, Jong-Min Lee, Perumalsamy Balaji, Paulraj Gnanasekar, Jin-Woo Oh, Mohammad Abdulkader Akbarsha, **K Jeganathan**, Sensitive and label-free shell isolated Ag NPs@ Si architecture based SERS active substrate: FDTD analysis and in-situ cellular DNA detection, *Applied Surface Science*, 515, 145955 (2020) <https://doi.org/10.1016/j.apsusc.2020.145955>

12. G. Paulraj, P. Sundara Venkatesh, P. Dharmaraj, S. Gopalakrishnan and **K. Jeganathan**, Stable and highly efficient MoS₂/Si NWs hybrid heterostructure for photoelectrochemical hydrogen evolution reaction, *International Journal of Hydrogen Energy*, 45 (3), 1793-1801, (2020). DOI: 10.1016/j.ijhydene.2019.11.051
13. P. Sundara vengatesh, G. Paulraj, P. Dharmaraj, V. Purushothaman and **K. Jeganathan** Catalyst-assisted growth of InGaN NWs for photoelectrochemical water-splitting applications, *Ionics* 1-8, (2020), DOI: 10.1007/s11581-020-03488-7.
14. G. Paulraj, P. Dharmaraj, V. Purusothaman, Jr-Hau He, **K. Jeganathan**, Highly efficient and stable photoelectrochemical hydrogen evolution with 2D-NbS₂/Si nanowire heterojunction, *ACS Applied Materials and Interfaces*, 1 (47), 44179-44185, (2019), DOI: 10.1021/acsami.9b147132019
15. MS Deepika, R Thangam, TS Sheena, RTV Vimala, S Sivasubramanian, **K. Jeganathan**, Dual drug-loaded PLGA nanospheres for synergistic efficacy in breast cancer therapy..*Materials Science and Engineering: C* 103, 109716 (2019)
16. R. Sasirekha, T. S. Sheena, R. Anitha, P. Santhanam, **K. Jeganathan**, Characterizations and analysis of genus Amphora marine diatom frustules: a biomaterial resource, *Journal of Bioinspired Biomimetic and Nanobiomaterials*, 8 (4), 224-230 (2019)
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121. S. Saravanan, **K. Jeganathan**, J. Arokiaraj, K. Baskar, P. Ramasamy T. Jimbo, T. Soga, and M. Umeno (1998): Optical and structural quality of GaAs epilayers from gallium, bismuth mixed solvents by liquid phase epitaxy, *JPN J. Appl. Phys.*, 37, 2598 - 2601.
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123. **K. Jeganathan**, S. Saravanan, and J. Kumar (1998): Liquid Phase Epitaxial Growth of thin p- $\text{Al}_{0.8}\text{Ga}_{0.2}\text{As}/\text{GaAs}$, *Computers and Devices for Communications*, 608.
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126. **K. Jeganathan**, S. Saravanan, K. Baskar, and J. Kumar (1997): Investigations on the LPE growth of GaAs using Ga-As-Bi solution, *Semiconductor Devices*. 1, 325 - 328.
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128. R. Dhanasekaran, N. Gopalakrishnan, R.S.Q. Fareed, and **K. Jeganathan** (1996): Fundamental studies on the epitaxial growth of compound semiconductors, *Fundamentals of Crystal Growth*, 326 - 333

List of Seminars / Conferences / Workshops / Events organized: 13

1. 4th International Conference (Online) on Recent Trends in Applied Science and Technology (ICRTAST-2020), 26-29, December 2020
2. UGC Sponsored Refresher Course in Nano Science (Interdisciplinary) 25 November, 2020 to 08 December, 2020.
3. Raman-Armstrong International Lecture on Space exploration, Dec 19, 2018.
4. BUDS Think Nobel Prize Special Seminar, March 25, 2018
5. International Conference on Sustained Energy Technologies (i - SET 2018), June 27 & 28, 2018
6. APEIRON – 2018, Feb 7, 2018 5. National Science Day, Feb 28, 2018
7. UGC-HRDC Refresher Course Coordinator - Materials Science (ID) - (2016)
8. UGC-HRDC Refresher Course Coordinator - Nano Science (ID) - (2017)
9. Workshop on Advances in Nanotechnology: Fabrication, Processing and Applications (28/02/2014 - 1/03/2014)
10. National Science Day (2014)
11. National Science Day (2015)
12. DST-SERB Workshop (GMW) for Young Scientists In Physical And Mathematical Sciences (22/01/2011-23/01/2011)
13. Awareness Programme on Nanotechnology to college Teachers, Feb 8, 2009.

Number of Invited / Special Lectures delivered by Dr. K. JEGANATHAN : 102

1. UGC Sponsored refresher course on NanoScience, University of Madras, Water splitting using Semiconductor Nanowires based photoelectrodes, 28th Jan 2022
2. Science Academies' Lecture Workshop on Recent Developments in Classical, Quantum and Condensed Matter Physics, *Physics of Semiconductor Nanostructures*, National College, Tiruchirappalli, 4, Jan 2022
3. Science Academies' Lecture Workshop on Recent Developments in Classical, Quantum and Condensed Matter Physics, *Application perspective of 1D Semiconductor Nanowires* National College, Tiruchirappalli, 6, Jan 2022
4. Faculty Development Program, Semiconductor Nanowires for Green Energy Harvesting applications, Srimad Andavan College, Tiruchirappalli, 24-9-2021
5. UGC Sponsored refresher course on Biological sciences, Multifunctional nanocarriers for biological applications, HRDC, Bharathidasan University, 10-9-2021
6. MHRD sponsored Faculty development Program on Nanomaterials Applications, CIT Coimbatore, Application Perspective of Semiconductor Nanostructures, 25.02.2021
7. Efficient-stable Electrocatalytic Seawater Splitting Using Two-dimensional Vanadium Disulphide, Anveshan 19-20, South Zone - AIU sponsored, Basic and Applied sciences during 30-11-2020.
8. UGC sponsored national conference, One-dimensional $\text{In}_x\text{Ga}_{1-x}\text{N}$ nanowires as photoelectrodes for efficient artificial photosynthesis, Alagappa University, Karaikudi, during September, 9-10, 2020
9. 1D nanowires as photo-electrodes for efficient artificial photosynthesis, NCAMEA 2020, Bharathiar University, 6th March, 2020.
10. UGC sponsored ,An Artificial Photosynthesis approach to convert water to clean hydrogen fuel, *Srimad Andavan Arts and science college*, Tiruchirappalli on 18-12-2019
11. UGC sponsored, Challenges and opportunities in Emerging Research Areas, Periyar University, Salem during 28-11-2019,
12. Special Lecture on "Advances in Nanoelectronics" Lady Doak College, Madurai, **Dec 18, 2018**
13. Special address in Raman - Armstrong Lecture on Space, organized by Bharathidasan University in association with Explore the space -Chennai, **Dec 19, 2018**
14. UGC-HRDC Refresher course on Physics in Physics, Madurai Kamaraj University, "The recent perspectives of Scanning Probe Microscope", **Dec 3, 2018**
15. UGC - SAP sponsored short term course on Analytical techniques, The basics of STM and AFM," **Dec 5, 2018**

16. 2nd International Conference on Recent Trends in Analytical Chemistry (ICORTAC-2018) entitled “MoS₂/Si NW heterostructure for artificial photosynthesis”, Department of Analytical Chemistry, University of Madras, Guindy Campus, Chennai, **March 15-17, 2018**.
17. Summer School in Materials science - “Resource person”, UGC-HRDC, Bharathidasan University, **March 14th, 2018**.
18. International Conference on Material Physics on “Chief Guest”, PG and Research Department of Physics, Bishop Heber College, Tiruchirappalli, **January 29th 2018**.
19. Delivered an invited lecture in UGC Sponsored Refresher course in Nanoscience (Interdisciplinary), Bharathidasan University, **December 20th 2017– January 01th 2018**.
20. Invited talk in German and Indian-Partners in Education and Research entitled “InGaN NWs for water splitting application” Humboldt Colloquium in Bangalore India, **November 23th-25th 2017**.
21. Delivered an invited talk in Special lecture on “Multifunctional Nano carriers: A robust platform for biological applications , Department of Microbiology, Periyar University, Salem, **October 4th 2017**.
22. Short Term Course on Recent Advances in Materials Research on “Artificial photosynthesis using semiconductor Nanowire” Coimbatore Institute of Technology, Coimbatore. **April 4th 2017**.
23. Presented a lecture in UGC Sponsored 96th Orientation Programme for University College and Teachers entitled “How to write a research proposal?” UGC- UGC-HRDC Bharathidasan University, **March 24th 2017**.
24. Presented a lecture in UGC Sponsored 96th Orientation Programme for University College and Teachers entitled “How to write a research proposal?” UGC- UGC-HRDC Bharathidasan University, **March 17th 2017**.
25. Delivered an invited talk in International Conference on Advances in Biological, Chemical and Physical Sciences (ABCPS 2017) “Semiconductor NWs for hydrogen water splitting”, Anna University, BIT Campus, Tiruchirappalli, **March 14th 2017**.
26. Delivered an invited talk in Chennai Nano gathering 2017 National Conference on Nanomaterials and Nanobiotechnology on “Semiconductor photocatalytic assisted water splitting”, National Centre for Nanoscience and Nanotechnology, University of Madras, Guindy Campus, Chennai, **February 7th-8th 2017**.
27. Delivered an invited talk in National Conference on Current Advancement in Physics NCCAP-2017 on “Indium Gallium Nitride Nanowires by Chemical Vapour Deposition”, St. Johns College, Department of Physics, Palayamkottai, **February 3th -4th 2017**.

28. Presented a lecture in Science Academies Lecture Workshop on Emerging Trends in Material Science “Recent developments in materials science” Raja Doraisingam Govt.Arts College, PG Research Department of Physics, Karaikudi, Sivagangai, **January 3th-4th 2017**.
29. UGC Sponsored Refresher course in Materials Science (Interdisciplinary) ,UGC-Human Resource Development Centre, Bharathidasan University, **November 2th -22th 2016**.
30. Delivered an invited talk in National Seminar on Recent Advances in Nanoscience and Technology Nanomeet 2016 on “Resource person and Chaired a Session”, Centre for Nanoscience and Technology, Anna University, Chennai-24, **October 6th-7th 2016**.
31. Special Lecture on “Multifunction nanocarriers: A robust platform for biological applications”, Department of Microbiology, Periyar University, Salem, **October 4th 2016**.
32. Presented a lecture in Science Academy Lecture Workshop on Some Recent Trends in Physics on “Resource person and Chaired a Session, Kumarakuru College of Technology, Coimbatore, **September 7th -9th 2016**.
33. Delivered an invited lecture in TEQIP-II Sponsored Faculty Development Programme on Heuristic Approach for Information and Communication Engineering Research Problems, entitled “Research Issues in Nano Electronics”,University College of Engineering, BIT Campus, Tiruchirappalli ", **June 24th, 2016**.
34. Presented a lecture in International Conference On Recent Trends In Analytical Chemistry (ICORTAC-2015) entitled “Atomic Force Microscopy- A tool for the characterization of nanomaterials”, Department of Analytical Chemistry, University of Madras, Guindy campus, Chennai-600025, **December 28th -30th, 2015**.
35. Participated in International workshop: Updates on clinical radiotherapy, Dr. Kamakshi Institute of Medical Sciences and Research & Anna University, Chennai, **May 24th-27th 2016**.
36. Presented a lecture in Twenty sixth national seminar on crystal growth and epitaxy entitled “Wide band gap semiconducting nanostructures”, Crystal Growth Centre, Anna University, Chennai, **March 14th&15th 2016**.
37. UGC - Refresher Course on “Nanowires & Applications” UGC-Human Resource Development Centre, Bharathidasan University, **February 17th 2016**.
38. Participated in 2nd National conference on nanophotonics (NCNP-2016) on Chaired a Session, School of Physics, Bharathidasan University, Tiruchirappalli, **March 18th&19th 2016**.
39. Presented a lecture in National Seminar on Nanoscience and Nanotechnology entitled “Self-assembled GaN NWs by CVD”, Univ. of Kerala Trivandrum, **March 19th-20th 2015**.
40. Presented a lecture in Advanced Materials for Energy and Environmental Applications (AMEEA-2015) entitled “InGaN NWs by Chemical Vapour Deposition”, Bharathiyar University, **March 18th-20th 2015**.

41. Presented a lecture in Workshop on Nitride Semiconductors entitled "InAlN/GaN HEMT structure", DRDO-SSPL, **February 9th -10th 2015**.
42. Presented a lecture in Recent trends in Materials Science entitled "Graphene a wonder material", EVR College, Trichy, **February 11th 2015**.
43. Delivered an invited lecture in International conference on semiconductor device and materials, entitled "Lattice matched and strained InAlN/GaN heterostructure by PA- MBE", Semiconductor Society and Anna University, Chennai, **February 3rd 2015**.
44. Delivered an invited lecture in Workshop on materials characterization: XRD and AFM, Madurai Kamaraj University, entitled "Scanning probe microscope : STM and AFM", **November 19 , 2014**.
45. UGC Refresher course in Physics, Academic Staff College, Bharathidasan University, **November 07, 2014** delivered a lecture on InGaN Nanowires for Solid state lighting applications.
46. Short term course on magnetic and semiconducting materials (MSN 2014), National Institute of Technology - Trichy, **November 1, 2014** delivered a special lecture on Perspective of Semiconductor devices.
47. Presented a lecture in International workshop on electronics Materials technology, entitled "GaN NWs based photocatalytic splitting of water using solar energy for a Hydrogen gas generation", Anna University, Chennai, **March 15, 2014**.
48. Delivered an invited lecture in Recent advances in Materials chemistry, entitled "Nanostructures for photocatalytic applications", Anna University, **March 8, 2014**.
49. Delivered an invited talk in National conference on nanophotonics, entitled "Plasmonic nanoparticles for efficiency enhancement in OLED", Bharathidasan University, **March 6, 2014**.
50. Delivered an invited lecture in Advanced Materials for science and technology, entitled "One-dimensional semiconducting nanostructures", Govt arts college, Karur, **February 10, 2014**.
51. An invited lecture in Workshop on Nanomaterials Characterization, entitled "Perspective of SPM: AFM and STM", University of Madras, Chennai, **November 6, 2013**.
52. Delivered a lecture in TEQIP II on Current Research Trends in Nanoscience & Technology and Application in Solar Cells Nanowires for future photovoltaic applications, Government College of Technology, Coimbatore, **May 18, 2013**.
53. UGC - Refresher Course, University of Madras, Chennai delivered a lecture on Characterization of Nanomaterials by AFM and STM, **February 28, 2013**.

54. Delivered a lecture on Nanomaterials and applications at EVR College, Trichy on the occasion of National Science day /Physics Association, **February 28, 2013.**
55. Delivered an invited talk at the State level seminar "Nanoscience and Nanotechnology" entitled "Synthesis and Fabrication of one-dimensional nanostructures", Department of Physics, Nandha Arts and Science College, Erode, **February 8, 2013.**
56. Presented a lecture in Science Academics' (IAS) Lecture workshop on Recent Developments in Physics at Department of Physics, Sri G.V.G. Visalakshmi College for Women, Udumalpet, **February 06 - 07, 2013.**
57. Delivered a lecture in Second International workshop on advanced functional nanomaterials (SIWAN-2013), entitled "Eshelby twist in Nanowires" Centre for Nanoscience and Technology & Centre for international affairs, Anna University, Chennai, **January 28-30, 2013.**
58. Presented a lecture on Current Trends in Material Science & Nanostructured Materials (CTMN 2013), entitled "Fabrication and Characterization of Semiconductor Nanowires by Chemical Vapor Deposition", Department of Physics & Chemistry, Cauvery College for Women, Tiruchirappalli. **January 23-24, 2013.**
59. Delivered an invited talk at International Workshop on Crystal Growth and Characterization of Advanced Materials and Devices, entitled "CVD growth of GaN Nanowires", Crystal Growth Centre, Anna University, Chennai, **December 16-19, 2012.**
60. Presented a lecture in Twenty Fourth National Seminar on Crystal Growth (XXIV-NSCG), entitled "InAlN/GaN HEMT by MBE", Crystal Growth Centre, Anna University, Chennai. **December 20-22, 2012.**
61. Presented an invited lecture on Refresher Course in Nanosciences for the University and College Teachers, entitled "Graphene electronics", Department of Nanoscience and Technology, Bharathiar University, Coimbatore, **December 17, 2012.**
62. Delivered a lecture in Regional science congress on science for shaping the future of India, entitled "InGaN one dimensional nanostructures by Chemical Vapor deposition" Kongunadu Arts and Science College, Coimbatore, held during December 15 & 16, 2012.
63. Delivered invited lecture in Rev. (Prof.) K.C. Mathew endowment lecture on Nanophotonics, entitled "Introduction to Nanophotonics", Department of Physics, Bishop Moore College, Mavelikara. **December 6, 2012.**
64. Presented a lecture in Nano revelation 2012 – Preparation and Applications of Carbon Nano Materials on Graphene Electronics , Science city, Chennai, **November 2, 2012.**
65. Presented an invited lecture on MBE growth GaN nanostructures at Nanyang Technical University, Singapore, **October 29, 2012.**

66. Delivered an invited lecture at International Conference on Emerging Advanced Nanomaterials, entitled "Fabrication of self-assembled GaN nanostructures by CVD", The University of Queensland, Brisbane, **Australia, October 22 – 25, 2012.**
67. Delivered an invited talk in Science Awareness programme for school students on Nanotechnology, Department of Botany, Govt. Arts College, Karur, **July 14, 2012.**
68. Presented a lecture at National Seminar on Advanced Materials: Processing and Applications (NSAMPA-2012), entitled "GaN nanostructures by CVD" PG and Research Department of Physics, National College, Tiruchirappalli, **March 29-30, 2012.**
69. Presented a lecture at UGC sponsored National Seminar on Recent trends in Crystal Growth and Nano Materials entitled "One dimensional wide band gap Semiconducting Nanostructures by Chemical Vapor Deposition", PG and Research Department of Physics, National College, Tiruchirappalli, **March 15-17, 2012.**
70. Presented an invited talk in the Workshop on Functional Materials, entitled "One dimensional GaN and InGaN nanostructures by Chemical Vapor Deposition", Department of Physics, Periyar University, Salem, **March 14, 2012.**
71. Delivered an invited talk in Recent Trends in Advanced Materials, School of Physics, "One-dimensional nanostructures by CVD" Madurai Kamaraj University, Madurai, **March 8, 2012.**
72. Delivered an invited talk at International Conference on Nanomaterials and Applications ICNMA 2012, entitled "The Era of Carbon Nanostructure: Graphene", Mother Teresa University, Kodaikanal, **February 28-29, 2012.**
73. Presented an invited talk in Physics Association Meeting on "Era of Carbon Nanostructures" at PG and Research Department of Physics, Jamal Mohamed College, Tiruchirappalli, **February 9, 2012.**
74. Delivered an invited lecture on Research day programme, entitled "Recent Trend in Nanoelectronics" at Department of Physics, St. Joseph's College, Tiruchirappalli, **January 28, 2012**
75. Delivered invited talk in Refresher Course on Nanoscience 2011, University of Madras, Chennai, **November 15, 2011.**
76. Presented a lecture in Workshop on Materials Science and Atomic/Molecular Physics Experiments using the Low Energy Ion Beam Facility (LEIBF) entitled "Low energy carbon implantation on catalytic metals for Graphene fabrication", Inter-University Accelerator Centre (IUAC), New Delhi, **October 21 & 22, 2011.**
77. Presented a lecture in Asia Pacific Conference on Characterization of Nanomaterials , entitled "Characterization of Nanomaterials" organized by Crystal growth centre, Anna University, Chennai, **September 22 – 24, 2011.**

78. Delivered a lecture at International Conference on Recent Advancements in Earth Resources Research-The Road To The Future, Perspective of nanowires –building blocks, Department of Geology, Periyar University, Salem, **September 07 – 09, 2011.**
79. Delivered an invited talk at the National Conference on Nanotechnology in Engineering, entitled "Introduction to Nanotechnology" SRIRAM Engineering College, Perumalpattu , **August 26, 2011.**
80. Delivered an invited talk in RENS 2011, entitled "Basics of Nanoelectronics", Jayaram Engineering College, Karatampatty, **August 19, 2011.**
81. Presented a lecture in Recent Trends In Nano Technology And Computing In The Field Of Science & Engineering entitled Introduction to Graphene & One dimensional Semiconducting Nanostructures, ISTE Chapter, Karaikal Polytechnique College, Karaikal, May 6, 2011.
82. Delivered an invited lecture at National conference on Nanotechnology, entitled One dimensional Semiconducting Nanostructures" University of Madras, **March 14-16, 2011.**
83. Delivered an invited talk at National Conference on Recent Advances in Nanotechnology and Biosensors (NCNB – 2011), entitled "Nanoelectronics – an introduction" at Alagappa University, Karikudi, **March 3-4, 2011.**
84. Presented a lecture in State Level Seminar on Nanostructured Materials (SSNM), entitled on "One – dimensional nanowires fabrication and applications", Physics Research Centre, S.T. Hindu College, Nagercoil, **February 11 & 12, 2011.**
85. Delivered a special lecture at Sri. SRNM college, Sattur, Virudhunagar (DIST) on **January 25, 2011** on the occasion of silver Jubilee celebration of Physics Department.
86. Refresher course on Nanotechnology, University of Madras, Chennai, **December 3, 2010**
Delivered two lectures on 1). One dimensional nanowires for Nanoelectronics applications.
2). Wonders of Carbon- Graphene nanostructures.
87. Refresher course on Physics, Madurai Kamaraj University, Madurai, **November 19, 2010**
Delivered lectures on One dimensional nanowires for biological applications.
88. Refresher course on Physics, Bharathiyar University, Coimbatore **November 12, 2010**
Delivered lectures on One dimensional nanowires for Nanoelectronics and biological applications.
89. Presented a lecture in Workshop on Recent Trends in Physics, entitled "Semiconductor 1D Nanowires and its Applications", Madurai Kamaraj University, Madurai, **October 11-13, 2010.**
90. Delivered an invited lecture on UGC sponsored Intercollegiate Seminar on “Nanoscience and Technology, on One dimensional Nanowire for future Nanoelectronics applications”, Department of Physics, Jamal Mohamed College, Tiruchirappalli. , **October 07, 2010.**

91. **Novel Applications of Nano Technology'** NANO T10, Arunai Engg. College, T.V. Malai, **29, 30 September. – October 1, 2010** delivered invited talk on "Introduction to Nanoelectronics.
92. Presented a lecture in an Inaugural function of the Physics Association. entitled "Key note address – nanoelectronics Future?", Department of Physics, Bishop Heber College, Tiruchirappalli, **August 5, 2010.**
93. Delivered an invited lecture at National Conference on Recent Trends and Applications of Nanotechnology in Pharmacy and Biology (NCNPB 2010), entitled "Semiconductor nanowires for biological applications", Anna University, Tiruchirappalli, **January 21-22, 2010.**
94. Delivered an invited lecture in National Seminar & Exhibition on NON- DESTRUCTIVE EVALUATION (NDE 2009)- Industrial Conference on Nanowires for sensors, BHEL Tiruchirappalli, Tamilnadu, **December 14-16, 2009.**
95. Presented a lecture in UGC- Faculty Development Programme on "Semiconductor nanostructures", International Centre for Nanotechnology University of Madras – Chennai, **November 11 & 12, 2009.**
96. Presented a lecture in Workshop on Nanomaterials on "Nature inspired nanotechnology", Holy Cross College, Tiruchirappalli, **March 2, 2009.**
97. Presented a lecture in Workshop on Frontier topics in Physics on "Introduction to Nanotechnology", Chikkanna Govt Arts college, Tiruppur, **Feb 27-28, 2009.**
98. Delivered an invited talk in Indo - US workshop on Visible and UV sources for solid state lighting and water purification entitled "GaN nanostructures by rf-MBE", Crystal Growth Centre, Anna University, Chennai -25, **January 5 - 7, 2009.**
99. Delivered an invited talk in Nanotechnology for clean energy entitled "Nanoelectronics", Kurinchi college of Engineering. and Technology, **Aug 14, 2008.**
100. Presented a lecture in Recent advances in materials Science entitled on "GaN nanomaterials and applications", Alagappa University, Karaikudi, **March 7, 2008.**
101. Presented a lecture in Science day celebration- Seminar on Nanomaterials entitled "Introduction to Nanotechnology", Govt Arts College, Karur, **Feb 22, 2008.**
102. Presented a lecture in Crystal Growth and Thin Film Techniques entitled on "Introduction to Nanoscience and Nanotechnology", Holy Cross College, Tiruchirappalli, **Feb 14, 2008.**

Conferences / Seminars / Workshops participated (since 2010) : 54

- 1) Intercalated Bi₂S₃ sheets on ZnO@ZnS core shell nano array photocathode for enhanced visible light driven photoelectrochemical properties, N. Anbarasan, S. Sadhasivam, M. Mukilan and **K. Jeganathan**, International Sustainable Energy Technologies (i-SET 2018), Bharathidasan University, Tiruchirappalli, on June 27-28 2018.
- 2) SrTiO₃ NPs as HER co-catalyst coupled with Si nanowires as photocathode to improved photoelectrochemical water splitting performance, S. Gopalakrishnan and **K. Jeganathan**, International Sustainable Energy Technologies (i-SET 2018), Bharathidasan University, Tiruchirappalli, on June 27-28 2018.
- 3) Low dimensional ZnO/CdSe core shell Nanorod arrays for efficient and stable Photoelectrochemical water splitting, P. Manivel, S. Ranjith, G. Paulraj, S. Sadhasivam, **K. Jeganathan**, International Conference on Recent Trends in Analytical Chemistry, Department of Analytical Chemistry, University of Madras, Guindy Campus, Chennai, March 15-17, 2018.
- 4) Evaluation of GaN nanostructures using Au catalyst by halide chemical vapour deposition, N. Anbarasan, S. Sadhasivam, M. Mukilan and **K. Jeganathan**, International Conference on Recent Trends in Analytical Chemistry, Department of Analytical Chemistry, University of Madras, Guindy Campus, Chennai, March 15-17, 2018
- 5) Nitride-Semiconductor based photoanode for Photoelectrochemical water splitting, N. Anbarasan, M. Mukilan, **K. Jeganathan**, 3rd National Seminar on Advanced Oxidation Processes (AOP-2017) BIT Campus, Anna University, Tiruchirappalli-620024, Dec 17-19, 2017.
- 6) Vertical Standing MoS₂ Nanosheets by CVD for high performance Electrocatalytic Hydrogen Evolution Reaction, G. Paulraj, P. Dharmaraj, N. Anbarasan, **K. Jeganathan**, International Conference on Nanoscience and Nanotechnology (ICONN 2017), Department of Physics and Nanotechnology, SRM University, Kattankulathur, August 09-11, 2017.
- 7) Ultralong InGaN Nanowires for Efficient Hydrogen Generation by Photoelectrochemical Water Splitting, M.Gopalakrishnan and **K.Jeganathan**, International Conference on Renewable Energy Science and Technology, Alagappa University, Karaikudi, March 10-11, 2017.

- 8) Reduced graphene oxide/ZnFe₂O₄ nanocomposite for enhanced magnetic behavior and visible light photocatalytic activity, P. Manivel, S. Sadhasivam, K. S. Ranjith, C. Viswanathan, **K. Jeganathan**, International Conference on Renewable Energy Science and Technology -2017 (ICREST-2017), Alagappa University, Karaikudi, March 10-11, 2017.
- 9) Thermo-responsive poly (N-isopropylacrylamide) chain grafted graphene oxide for membrane bio-fouling removal, P. Manivel, S. Sadhasivam, **K. Jeganathan**, International Conference On Nano For Energy And Water (NEW), University of Petroleum and Energy studies, Dehradun, India, February 22-24, 2017
- 10) Homogeneous Growth of Monolayer MoS₂ on silicon by chemical vapor deposition, G. Paulraj, P. Dharmaraj and **K. Jeganathan**, National conference on Nanomaterials and Nanobiotechnology: Chennai Nanogathering, February 7-8, 2017.
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