<table>
<tr><td>Name of the Teaching Staff</td><td colspan="3">Dr. A. OBADIAH</td><td rowspan="6">  </td></tr>
<tr><td>Designation</td><td colspan="3">ASSISTANT PROFESSOR (7000)</td></tr>
<tr><td>Division</td><td colspan="3">Physical Sciences</td></tr>
<tr><td>School</td><td colspan="3">School of Sciences, Arts and Media</td></tr>
<tr><td>Date of Joining the Institution</td><td colspan="3">06.07.2012</td></tr>
<tr><td rowspan="2">Qualification with Specialization</td><td>UG</td><td>PG</td><td>Ph.D.</td></tr>
<tr><td>I</td><td>II</td><td>Commended</td></tr>
<tr><td>Value Additions</td><td colspan="4">Completed the PCT (Patent Cooperation Treaty) Distance Learning Course</td></tr>
<tr><td>Research Expertise</td><td colspan="4">Alternative fuel, Natural Products, Organic Synthesis</td></tr>
<tr><td rowspan="2">Subjects Teaching</td><td colspan="2">Under Graduate</td><td colspan="2">Post Graduate</td></tr>
<tr><td colspan="2">1. Applied Chemistry
2. Applied Engineering Chemistry
3. Environmental Studies
4. Analytical Chemistry and Spectroscopy
5. Basic Organic Chemistry
6. Basic Inorganic Chemistry
7. Chemical Bonding and concepts of Acids and Bases
8. Organic reaction intermediates and stereochemistry
9. Atomic Structure, Thermodynamics and Electrochemistry
10. Physical Chemistry
11. Applied Chemistry for Food Processing Technology.
12. Engineering Chemistry
13. Waste to Energy
14. Fundamentals of Forensic Science Laboratory
15. Forensic Science Laboratory
16. Crime and Society</td><td colspan="2">1. Analytical Chemistry II
2. Organic Chemistry II
3. Polymer Chemistry
4. Waste to Energy
5. Qualitative and Quantitative Organic Analysis lab
6. Synthetic Organic Chemistry Lab
7. Essentials of Forensic Chemistry.
8. Nuclear Chemistry and Solid State Chemistry</td></tr>
<tr><td rowspan="2">Total Experience in Years</td><td>Teaching</td><td>Industry</td><td colspan="2">Research</td></tr>
<tr><td>12 Years</td><td>1 Year</td><td colspan="2">14 Year</td></tr>
<tr><td>Papers Published</td><td>National</td><td>4</td><td>International</td><td>34</td></tr>
<tr><td>Papers Presented in Conference</td><td>National</td><td>12</td><td>International</td><td>8</td></tr>
<tr><td>Conferences / Symposiums / Seminars / Workshops Participated</td><td>National</td><td>13</td><td>International</td><td>10</td></tr>
</table>

<table>
<tr><td>FDP / STTP / MDP / Summer / Winter School attended</td><td colspan="4">2</td></tr>
<tr><td rowspan="2">M.Phil. / Ph.D. Guide ship</td><td colspan="2">Field</td><td colspan="2">University</td></tr>
<tr><td colspan="2">Alternative fuel, Natural Products, Organic Synthesis</td><td colspan="2">Guideship in Karunya University</td></tr>
<tr><td>Ph.D. Projects Guided</td><td>Ph.D.s</td><td>2</td><td>Project at Master’s Level</td><td>15</td></tr>
<tr><td>Professional Memberships</td><td colspan="4">1. Life Member in Renewable Energy Society of India (RESI)
2. Life Member in Oil Technologist Association of India (OTAI)
3. Member in Indian Science Congress (ISC)
4. Student Member American Standard Testing Method (ASTM)
5. Member of International Association of Engineers(IAENG)
6. Life Member of International Society for Research and Development (ISRD).</td></tr>
<tr><td>Consultancy Activities</td><td colspan="4">-</td></tr>
<tr><td>Awards&Honours</td><td colspan="4">1. TNSTSC Student Project award – 2007
2. Best Research paper award in Karunya University – 2012
3. Karunya Short – Term Research Grant – 2013 and 2018.</td></tr>
<tr><td>Grants Fetched</td><td colspan="4">The Research Project sanctioned by DST – TDT –WM Rs. 69,47,144/- for the project entitled of “Recovery of Value added Materials from non hazardous wastes of silkworm industries” 2020 – 2023.</td></tr>
<tr><td>Interaction with Professional Institutions</td><td colspan="4">Collaborative Projects with other colleges and Research institute.</td></tr>
<tr><td>Educational Details with Institute / University Name</td><td colspan="4">B.Sc. – 2002 - 2005
V. O. C. College,
Manonmanium Sundaranar University,
Thoothukudi, India
M.Sc. – 2005 – 2007
V. O. C. College,
Manonmanium Sundaranar University,
Thoothukudi, India
Ph.D. - 2008 – 2013
Department of Chemistry
Karunya University, Coimbatore, India
Thesis entitled “Extraction, characterization and application of certain antioxidants”
(Thesis submitted in March 2013 and Awarded Ph.D. Degree in June 2013)</td></tr>
<tr><td>Experience</td><td colspan="4">• Working as R&D Chemist in Fischer Chemic limited, Research and Development in Thiruvallur district (2007 - 2008).</td></tr>
</table>

	• Working as **Junior Research Fellow**, DST project , Host institute is Karunya University, Coimbatore (2008 – 2012) • Currently working as a **Assistant Professor**, Karunya Institute of Technology and Sciences, Coimbatore (2012 – Till date).
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Papers Published

1. Wesley, R.J., Vasanth, S., Durairaj, A., ...Obadiah, A., Vasanthkumar, S., Nickel-molybdenum bimetallic sulfide decorated biomass derived carbon support for high performance asymmetric supercapacitor application, *Journal of Energy Storage*This link is disabled., 2024, 91, 112092
2. Wesley, R.J., Sowmya, S., Durairaj, A., ...Obadiah, A., Vasanthkumar, S. Synthesis and electrochemical evaluation of porous carbon derived from sanitary pad waste for high performance in symmetric supercapacitor application, *Journal of Energy Storage*This link is disabled., 2023, 72, 108662
3. Ramachandran John Wesley, Arulappan Durairaj, Subramanian Ramanathan, **Asir Obadiah**, Romiyo Justin Abraham, Xiaomeng Lv, Samuel Vasanthkumar, Tea waste biochar composite with nickel phthalocyanine as a potential supercapacitor electrode material, Biomass Conversion and Bio refinery 2023, 13(15), pp. 13937–13947
4. Romiyo Justin Abraham, Arulappan Durairaj, Subramanian Ramanathan, **Asir Obadiah**, Ramachandran John Wesley, Xiaomeng Lv, Samuel Vasanthkumar, Efficient degradation of emerging organic pollutant by cerium phosphate/g-C3N4/Vis/PMS system: kinetics and toxicity evaluation, Diamond Related Materials, 126, 109067.
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6. Palanichamy Santhosh Kumar, **Asir Obadiah**, Arulappan Durairaj, Subramanian Ramanathan, Samuel Vasanthkumar, Synthesis and bioactivity evaluation of 3-amino-6, 11-dioxo-6, 11-dihydro-5H-benzo[b]carbazole-1-carboxylic acid derivatives, Journal of the Iranian Chemical Society, 19 (4), 2022, 1039 – 1048.
7. Subramanian Ramanathan, M. SasiKumar, N.Radhika, **Asir Obadiah**, Arulappan Durairaj, G.Helen Swetha, Palanisamy Santhoshkumar, I.Sharmila Lydia, Samuel Vasanthkumar, Musa paradisiaca reduced graphene oxide (BRGO) /MWCNT-Fe_3O_4 nanocomposite for supercapacitor and photocatalytic

application, Materials today : Proceedings, 2021 In Press

8. 2. Subramanian Ramanathan, M. Sasikumar, S. Prince Makarios Paul, **Asir Obadiah**, Abiram Angamuthu, Palanisamy Santhoshkumar, Arulappan Durairaj, Samuel Vasanthkumar , Low cost electrochemical composite material of paper cup waste carbon (P-carbon) and Fluorescein for supercapacitor application, Materials today : Proceedings, 2021 In Press
9. 3. Romiyo Justinabraham. Arulappan Durairaj, Subramanian Ramanathan**, Asir Obadiah**, Ramachandran John wesley, XiaomengLv, Samuel Vasanthkumar, Synthesis of porous g-C3N4 doped vanadyl phosphate for supercapattery application, Journal of Energy Storage, Volume 40, August 2021, 102786
10. 4. Ramachandran JohnWesley, ArulappanDurairaj, SubramanianRamanathan, **Asir Obadia**h, RomiyoJustinabraham, XiaomengLv, SamuelVasanthkumar, Potato peels biochar composite with copper phthalocyanine for energy storage application, Diamond and Related Materials, 2021, 115, 108360.
11. 5. P. Santhoshkumar, K. Bharathkumar, **A. Obadiah**, R. Mohanpriya, A. Durairaj, S. Ramanathan, S. Vasanthkumar, Synthesis, Molecular docking, cytotoxicity and antioxidant activity evaluation of 4-(3-chloro-1,4-dioxo-1,4-dihydronaphthalen-2-ylamino)benzenesulfonamide derivatives, International Journal of Phamaceutical Research, 2020. 12 (1), 134 – 168.
12. 6. P. Santhoshkumar, D. Premnath, **A. Obadiah**, A. Durairaj, S. Ramanathan, S. Vasanthkumar, Synthesis, Structure Characterization, and Biological Evaluation of3-Amino-5-(5-Oxo-5H-Benzo[a]Phenothiazin-6-ylamino)benzoicacid Derivatives via Molecular Docking, Cytotoxicity, and Antioxidant studies, Current Pharmacology Reports, 2019, 5 (6), 440 – 459.
13. S. Ramanathan, E. Elanthamilan, **A. Obadiah**, A. Durairaj, P. Santhoshkumar, J. Princy Merlin, S. Ramasundaram, S. Vasanthkumar, Electrochemical detection of Trace Amounts of Arsenic (III) in Poultry Usin a Graphene Oxide –Bis(2-(4,5-diphenyl-1H-imidazol-2-yl)phenoxy)cobalt Composite Modified Electrode, 2019, 48(7), 4498 – 4506.
14. S. Ramanathan, S. Paul Selvin, **A. Obadiah**, A. Durairaj, P. Santhoshkumar, S. Lydia, S. Ramasundaram, S. Vasanthkumar, Synthesis of reduced Graphene oxide/ZnO nanocomposites using grape fruit extract and Eichornia crassipes leaf extract and a comparative study of their photocatalytic property in degrading Rhodamine B dye, Journal of Environmental Health Science and Engineering, 2019, 17 (1), 195 – 207.
15. P. Santhosh Kumar, D. Premnath, **A. Obadiah**, A. Durairaj, S. Ramanathan, S. Vasanthkumar, Synthesis, Structural characterization and biological Evaluation of 3-Amino-5-(5-oxo-5H-benzo[a] phenoxazin-6-ylamino)benzoic acid Derivatives, Asian Journal of Chemistry, 2019, 31 (12), 2986-2994.
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17. A. Durairaj, T. Sakthivel, S. Ramanathan, **A. Obadiah**, S. Vasanthkumar, Hierarchical Cu_2Se nanostructures film for peroxymonosulfate activation and electro catalytic hydrogen evolution, Journal

of the Taiwan Institute of Chemical Engineers, 2019, 99, 66 – 73.

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19. S. Ramanathan, E. Elanthamilan, **A. Obadiah**, S. Ramasundaram, S. Vasanthkumar, Development of a electrochemical sensor for the detection of 2,4-dichlorophenol using a polymer nanocomposite of rGO, Journal of Materials Science: Materials in Electronics, 2019, 2019, 30 (7), 7150 – 7162.
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22. A. Durairaj, T. Sakthivel, **A. Obadiah**, S. Vasanthkumar, Enhanced photocatalytic activity of transition metal ions doped g–C_3 N_4 nanosheet activated by PMS for organic pollutant degradation, Journal of Materials Science: Materials in Electronics, 29 (10), 2018, 8201-8209.
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27. **A. Obadiah**, R. Kannan, A. Ramasubbu, S. Vasanth Kumar, Studies on the Effect of Antioxidants on the Long-term Storage stability and Oxidation Stability of Pongamia pinnata (L.) Pierre Biodiesel, Fuel Processing Technology, 99, 2012, 56–63. Impact Factor : 3.4.
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31. **A. Obadiah**, R. Kannan, A. Ramasubbu, S. Vasanth Kumar, Studies on the Effect of Antioxidants on the Long-term Storage stability and Oxidation Stability of Jatropha Biodiesel, Int. J. Res. Chem. Environ. 2 (1) 2012, 130-139.
32. R. Kannan, S. Gouse Peera, **A.Obadiah**, S. Vasanth Kumar, MnO2 Supported POM–A Novel Nanocomposite for Dye Degradation, Digest Journal of Nanomaterials and Biostructures, Vol. 6, No 2, April - June 2011, p. 829 – 835. Impact Factor 1.7
33. **A.Obadiah,** R. Kannan, A. Ramasubbu, S. Vasanth Kumar, Comparative Study of Conventional, Microwave and Ultrasonic Assisted method of Conversion of Biodiesel from Pongamia Oil, Karunya Research Journal, Vol.3 (1), 2011, pp. 34 -46.
34. **A. Obadiah**, P.Sudeepika, G. Nalini, A. Ramasubbu, S. Vasanth Kumar, Extraction of Isomeric Scillerene Compound from Urginea Indica Bulb and study of its Biological Activity, Karunya Research Journal, Karunya Research Journal, Vol.3 (1), 2011, pp. 83 -91.
35. **A. Obadiah**, V. Sathish, S. Vasanth Kumar, T. Bala Subramanian, Bio accumulation of some Heavy metals in fishes in Tuticorin coastal area, Gulf of Mannar, India, Eco chronicle, Vol.5, No 2, June 2010, 99 – 106.

Papers Presented in Conference

International Conferences:

1. A. Obadiah, A. Durairaj, S. Vasanthkumar, Comparative Study of Pongamia Oil Transesterification by Conventional and Ultrasonic Assisted Method, International conference on chemistry for renewable energy (ICCRE – 2016), 25 - 26 February 2016, Department of Chemistry, Bishop Heber College, Trichy -17.
2. A. Obadiah, S. Ramanathan, S. Vasanthkumar, Studies on the enhancement of Storage stability of *Pongamia pinnata* biodiesel, International conference on chemistry for renewable energy (ICCRE – 2016), 25 - 26 February 2016, Department of Chemistry, Bishop Heber College, Trichy -17.
3. Arka Mandal, A. Obadiah, S. Vasanthkumar, Biodiesel Production from Argmonemexicana L. seeds and its characterization, International conference on Converging Biotechnological Innovations for Health, Food and Environmental welfare, 2 December to 4th December, 2015, Department of Biotechnology, Karunya University.
4. Immanuel Premkumar, Ganesh @ Lenin.K, **A. Obadiah**, Yowan Nerthigan, Green synthesis and charecterization of Silver quantum dots by aqueous leaf extract of *phyllunthus and amarus* leaves and its antibacterial activity, 3rd International Conferences on Drug Delivery, February 28 – March 1, 2014, PSG College of Pharmacy, Coimbatore.
5. Imanuel Premkumar, Yowan Nerthigan, Lenin@Ganesh, **A. Obadiah**, Arun dakshinamurthy, Green Synthesis and Charecterization oa Quantum Dots synthesized by Aqueous Leaf Extract of Phyllanthusamarusand its Antibacterial Activity, 6th Bangalore Nano, December 4 – 6, 2013, Lalit

Ashok, Bangalore.

6. G. Sahaana, **A. Obadiah**, Arun Dakshinamurthy, S. Vasanth Kumar, An Investigation of Biodiesel synthesis from *Jatropha curcus* oil using $Ce_{0.9}Ca_{0.1}O_{1.9}$ Nanocomposite as Catalyst, International Conference on Recent Advances in Textile and Electrochemical Sciences, March 21 – 23, 2013, Department of Industrial Chemistry, Alagappa University, Karaikudi.
7. **A. Obadiah**, Sahaana Gurusamy, Stanley Simon, Arun Dakshinamurthy, S. Vasanth Kumar, Biodiesel Production from citrullus colocynthis using calcined waste animal bone as catalyst, 5th Bangalore Nano, December 5 – 7, 2012, The Lalit Ashok, Bangalore.
8. **A.Obadiah**, V. Sathish, S. Vasanth Kumar, T. Bala Subramanian, Assessment of the impact of heavy metal contamination on Aquatic Ecosystem using fishes as Biomarkers, International conference on on Science, Society and Sustainability, January 10th – 13th, 2012, Lady Doak College, Madurai.
9. **A. Obadiah**, A. Ramasubbu, S. Vasanth Kumar, Nigella sativa and Argemone mexicana L. Seeds are Potential application for Biodiesel Production And characterization of Biodiesel, International conference on on Science, Society and Sustainability, January 10th – 13th, 2012, Lady Doak College, Madurai.
10. **A. Obadiah**, R. Kannan, P. Ravichandran, A. Ramasubbu, S. Vasanthkumar, Waste deoiled cakes of Jatropha and Pongamia seeds for Dye removal, International conference on on Science, Society and Sustainability, January 10th – 13th, 2012, Lady Doak College, Madurai.
11. **A. Obadiah**, R. Kannan, Cynthia. E. Theodore, S. Selvaraj, A. Ramasubbu, S. Vasanth Kumar, A Scillerene compound is extracted from Urginea indica Culb an studies of their Biological Activity, on International Conference on Drug Design & development, January 21, 2011, Nadar Saraswathi College of Arts & science Theni, Tamilnadu.
12. **A. Obadiah**, R. Kannan, P.Ravichandiarn, A. Ramasubbu, S. Vasanth Kumar "Layered Double Hydroxide as a Novel Catalyst for the Transesterification of Pongamia Oil" International Conference on Bioresource technology – Its Applications & Achievements (7-8 october 2010), Nirmala College for women, Coimbatore, India.

National Conferences:

1. G. Ajji Swaroopa, I. Reya Issac, K.R. Jeganathan, **A.Obadiah**, S. Vasanth Kumar, Animal waste as a source for biodiesel production, National level technical symbosium [EVOGEN'11], 21st & 22nd March 2011, Karunya University, Coimbatore.
2. **A. Obadiah**, R. Kannan, S. Selvaraj, A. Ramasubbu, S. Vasanth Kumar, "Isolation of Bioactive Compounds from Menthe Pepertia and Study of Their Anti oxidant Activity" National Seminar on Recent Trends in Chemistry (NSRTC - 2011), February 25 & 26 , 2011, A.V.C. College (Autonomous), Mayiladuthurai.
3. **A. Obadiah**, R. Kannan, Cynthia. E. Theodore, S. Vasanth Kumar, Isolation of Bioactive compounds from Mentha Pepertia and study of their biological activity, on National conference on The challences of Microbial technology "Technology and Microbes", 4th February 2011, Madras Christian college, Chennai.

4. R. Kannan, **A.Obadiah**, A. Ramasubbu, S. Vasanth Kumar, Microwave Assisted Synthesis of mushroom Like Nanofibres Zno- SnO_2, on 98th Indian Science Congress 3 -7 January 2011, SRM University, Chennai.
5. A. Jegan, **A. Obadiah**, R. Kannan, A. Ramasubbu, S. Vasanth Kumar, "Phytosynthesis of Silver nanoparticles using Achyranthes aspera L. and tectona grandis", National conference on Emerging trends in Nanoscience (ETN) – 21st &22nd December 2010 at Sri Paramakalyani college, Tirunelveli, Tamilnadu.
6. Cynthia E. Theodore, S. Selvaraj, R. Kannan, **A.Obadiah**, S. Vasanth Kumar, Cu-Impregneted Manganese oxides- A Novel Nano materialfor Dye degradation, National level student's Symposium "Nano materials and its Application" on 3rd October 2010 at National institute of technology, Trichy
7. R. Kannan, **A.Obadiah**, P. Ravichandran, A. Ramasubbu, S. Vasanth Kumar, MNO2- POM: A Novel Nanocomposite for Photocatalytic degradation Dye, National Conference on "Nanotechnology NCN-2010" on 24th & 25th September 2010 at SSM college of engineering Komarapalyam, India.
8. G. Nalini, P. Sudeepika, **A. Obadiah**, R. Kannan, A. Ramasubbu, S. Vasanth Kumar, Solid Phase adsorption of heavy metal using nano sized Jatropha activated carbon, on National conference on Environmental Pollution, March 31, 2010, at Karunya University, Coimbatore.

Patents

Indian Patent:

Patent title: A Portable water filter
Publication Number: 36/2020
Application Number: 202041035102
Application filling date : 14.08.2020
Field of Invention: Mechanical Engineering.

Books / Book Chapters

1. Nanostructured Manganese oxide materials for Energy and Environmental Applications, Nanotechnology – Energy and Environment, Volume 6, pp- 309 - 319 , Studium Press LLC, Houston – USA. ISBN – 1-62699-006-9.
2. Studies on the effect of antioxidants on the Long term storage stability and oxidation stability of Pongamia pinnata and Jatropha curcus biodiesel, Bio Energy – Oppotunities and Challenges, pp. 241-276, CRC Press, Taylor & Francis Group. ISBN – 13: 978-1-4987-2205-6.

Research Group Members

1. **Dr. S. Vasanthkumar – Professor, Department of Chemistry, KITS**
2. **Dr. C. N. Manoj – CEO, Pelican Biotech, Kerala**
3. **Mr. Ananda babu – Almighty silkworm Industry, Coimbatore.**
4. **Dr. P. Santhosh Kumar – Research Scholar, KITS**

5. **Dr. A. Durai Raj - Research Scholar, KITS**
6. **Dr. S. Ramanathan- Research Scholar, KITS**
7. **Mr. R. John Wesley RRK19CH004 – Research Scholar, KITS**
8. **Mr. Justin Abraham – Research Scholar, KITS.**

Any other additional details