# PAPERS PUBLISHED BY OUR STAFF (2014-20)

# **Department of Economics**

#### 2017-18

- 1. **C. Ramesh**, "Willful Defaulters and the growth of Non-Performing Assets in Indian Banking Sector", Shanlax International Journal of Economics, ISSN: 2319-961X, vol.6, Special Issue.1, 185-188, March 2018.
- M. Ganesan, "Impact of Demonetization-2016 in India", International Journal of Multidisciplinary Researches, Volume 4, Special Issue 1, September 2017, ISSN:2349-8684, 100-101.
- 3. Kirubha Priyadharshini, P. Balamirtham and C. Sivamurugan, "Impact of Special Economic Zones on Employment, Foreign Direct Investment and Export", SELP Journal of Social Science, ISSN: 0975-9999(P), 2349-1655(O), Volume IX, Issue 37, Page 58-63, April 2018.
- 4. **C. Ramesh**, "Fiscol Consolidation and growth trend of Development expenditure of Tamil Nadu", International Journal of Management and Development Studies 6(11): ISSN (Online): 2320-0685, ISSN (Print): 2321-1423, 65-69, 2017.

- 1. **C. Ramesh**, "Fiscol Consolidation and growth trend of development expenditure of Tamil Nadu", International Journal of Management and Development Studies 6(11), 65-69(2017), ISSN(Online):2320-0685, ISSN(Print):2321-1423, Impact Factor:0.715.
- 2. G. Maha Lakshmi, **C. Ramesh**, "Impact of economic Reforms in Expenditure Pattern of Tamil Nadu", International Journal of Advanced Research 5(1), ISSN:2320-5407,679-684.
- 3. **S. Jayaselvi**, "Agricultural Labourers in India: Facing a great challenge", Journal of Multidisciplinary Research 2(2), (103-107), ISSN: 2330-7362, Volume 2, No.2, 2016.
- 4. **S. Jayaselvi** and Muthukutti, "Emerging Service sector in India: An Engine of Growth", Journal of Multidisciplinary Research 2(2), (228-233), ISSN: 2330-7362, Volume 2, No.2, August 2016.
- 5. **S. Jayaselvi**, "Emerging Healthcare Sector in India", International Journal of Multidisciplinary Researches, Volume 3, Special Issue 5, 2349-8684, page 65-70, 2016.
- 6. **S. Jayaselvi**, "Awareness and Utilization Perspectives of Health Insurance among Women Workers", International Journal of Management and Development Studies 5(6):06-14(2016), ISSN (Online): 2320-0685, ISSN (Print): 2321-1423, page 1-14.

- 7. **S. Jayaselvi**, "Virtual water Trade: An Adverse consequence in India", Intercontinental Journal of Human Resource Research Review, ISSN: 2320-9704, Online ISSN: 2347-1662, volume 5, Issue 6, Special Edition-March 2017, page 113-117.
- 8. **S. Jayaselvi**, "Challenges of Health care Services in India: Need a Special care", Shanlax International Journal of Economics, Volume-4, Issue-4, ISSN: 2319-961X, 45-51, September 2016.
- C. Ramesh, "Growth Trend of Central Government Receipts", International Journal of Multidisciplinary Research, Volume 2, No.2, ISSN: 2230-7362, Page 124-127, August 2016.
- 10. **S. Jayaselvi**, "Demonetisation: Blessing or Curse in Indian Economy", International Journal of Business Intelligence and Innovations, ISSN 2348-4705, Special Volume Issue 4, February 2017, page 30-32.
- 11. **S. Jayaselvi**, "Demonetisation in India: A Short Period Hitches and Long Period Fruits", International Journal of Business Intelligence and Innovations, ISSN 2348-4705, Special Volume Issue 4, February 2017, page 36-38.
- 12. G. Maha Lakshmi and **C. Ramesh**, "Impact of economic Reforms in Public Expenditure of Tamil Nadu", International Journal of Trade and Global Business Perspectives", Volume 5, Number 3, July- September 2016, ISSN(Print)2319-9059(Online): 2319-9067 page 2459-2462.
- 13. **C. Sivamurugan**, "Sources of Productivity Growth in Machinery and Machine Tools industry", International Journal of Business Management, ISSN No.: 2358-2743, volume-4, Issue No.3, Oct-Dec 2016, page 67-93.
- 14. **S. Jayaselvi**, "An Economic and Health Status of Fishermen in Tiruchendur", Shanlax International Journal of Arts, Science and Humanities, ISSN No.: 2321-788X volume-4, Issue-1, 2016, page 35-51.

- 1. **C. Ramesh**, "Women Domestic workers", International Journal of Management and Social Development, Vol-2 No-5, 2015. Impact factor: 4.005.
- 2. **C. Ramesh**, "Social Sector Expenditure Across Southern States In India During Pre and post Reform Period", International Journal of Recent Scientific Research, ISSN:0976-3031, Vol.7, Issue, 3, pp.9222-9225, 2016, Impact factor: 5.114.
- 3. **C. Sivamurugan**, "Rupee Free Fall Impact on Indian Economy", Economic Development in India.
- 4. **C. Sivamurugan**, "Rural Development and Migrant Fishermen in Thoothukudi", Marine Fish Economy in India.

- 5. **C. Sivamurugan**, "Budget 2015-16: MGNREGA Gets High Allocation", MGNREGP Challenges, Problems and Remedies.
- 6. **C. Sivamurugan**, "MGNREGA and Its Impact Migration in Backward Areas", MGNREGP Challenges, Problems and Remedies.

1. **M. Ganesan**, "An Impact of FDI in Retail Sector with Special Reference to Employment and Output in India", UGC Sponsored National Seminar on FDI in Indian Retail Sector, pp. 102-107.

# **Department of English**

### 2017-18

- 1. **K. Muneeswari** "A Study on Midlife Crisis in JaiShree Misra's Secrets and Sins," New Man International Journal of Multidisciplinary studies, ISSN: 2348-1390, 146-148, vol 5, special Issue 1, February 2018.
- 2. **C. Mothilal Dinesh**, "Eco –text to Meta –text: A Study on carl Hiaasen's Flush," 403-408.
- 3. **A. Kavitha**, "Nature-Not as a Monster but as a Reviver in Margaret Laurence's Novels", Bodhi International Journal of Research in Humanities, vol 2, Special Issue 11, E-ISSN:2456-5571, 60-62, 2018.
- 4. **E. Lenin**, "A Quest for identity and Liberation an analysis of Jaishree Misra's Ancient Promises", Bodhi International Journal of Research in Humanities, Vol 2, Special Issue 10, E-ISSN:2456-5571, 22-26, March -2018.
- 5. **M. Thangeswari**, "A Study of female consciousness in Doris Lessing's the grass is singing", Bodhi International Journal of Research in Humanities, Arts and Science, Vol 2, Special Issue 2, E-ISSN:2456-5571, 105-108, April 2018.
- M. Thangeswari and R. Rita Yasodha, "Terrorism Versus Idealism: A Study of Doris Lessing's the good Terrorist", International Journal of English Language and Literature, ISSN: 2321-1164(Online); 2347-2642(print), volume: 6, Issue:21, 92-98, January–March 2018.
- 7. **C. Shola Fernando**, "Autobiographical Elements in Thomas Keneally's by the line" The Indian National Journal of English Language and Literature", Vol. 5, Issue 19, ISSN: 2321-1172, July –September 2017.

#### 2016-17

- 1. R. Babu Kirubanithi, T. Paulpandian, **K. Thanikasalam**, "Critical studies on contemporary literature", National seminar.
- 2. **C. Shola Fernando**, "Micro historicism in Schindler's List", International Journal of Research in Humanities and social sciences, vol -2, Dec 2106.
- 3. **T. Xavier Beski Arockiaraj**, "Lexical, Stylistic and Cultural issues in the select poem in Bharathidasan: A. Translation study", Vol IX, 2016.

#### 2015-16

1. **C. Shola Fernando**, "Micro historicism in Schindler's List", HuSS: International Journal of Research in Humanities and Social Sciences, Vol 3(2), 59 -64, July-December 2016.

# **Department of Mathematics**

#### 2019-20

- 1. P. Jeya Puvaneswari, **K. Bageerathi** and **P. Selvan**, "Neutrosophic Feebly Normal Spaces", International Journal of Communication and Media Studies, 9(3), 119-130. ISSN:2250-0014, 2019.
- 2. P. Jeya Puvaneswari and **K. Bageerathi**, "Some Functions Concerning Neutrosophic Feebly Open & Closed Sets", International Journal of Scientific Research and Reviews, 8(2), 1546-1559, 2019.
- 3. P. Iswarya and **K. Bageerathi**, "A Study on Neutrosophic Generalized Semi closed sets in Neutrosophic Topological Spaces", Journal of Emerging Technologies and Innovative Research, 6(2), 452-457. ISSN No: 2349-5162, 2019.
- 4. P. Jeya Puvaneswari and **K. Bageerathi**, "Regular Spaces Associated with Neutrosophic Feebly Open Sets", Journal of Applied Science and Computations, Volume VI, Issue VI, 2328-2340, ISSN No: 1076-5131, 2019.
- 5. T. Thangam and **K. Bageerathi**, "Generalization of Pairwise Fuzzy connectedness", Journal of Emerging Technologies and Innovative Research, 6(2), 154-158, 2019.
- P. Jeya Puvaneswari and K. Bageerathi, "Neutrosophic Locally Feebly Closed Sets", International Journal of Research and Analytical Reviews, 6, 165-173, ISSN:2349-5138, 2019.
- 7. P. Jeya Puvaneswari and **K. Bageerathi**, "Neutrosophic Feebly Separated Sets", Journal of Emerging Technologies and Innovative Research, 6, 329-337, ISSN:2349-5162, 2019.

- 1. P. Jeya Puvaneswari and **K. Bageerathi**, "On neutrosophic Feebly Frontier in Neutrosophic Topological Spaces," International Journal of Mathematics Trends and Technology, 65 (4), 20-25 (2019) ISSN: 2231-5373.
- 2. **K. Bageerathi** and P. Jeya Puvaneswari, "Preserving Neutrosophic Feebly Closed Sets," Journal of Ultra-scientist of Physical Sciences, 31 (5), 43-52 (2019).
- 3. M. Jeyachitra and **K. Bageerathi**, "Applications of pre \*Generalized open sets," Journal of Mathematical Sciences, 10 (5), 1119-1130 (2019).
- 4. M. Jeyachitra and **K. Bageerathi**, "Contra pre \*Generalized continuous functions in topological spaces," Journal of Emerging Technologies and Innovative Research, 6 (5), 628-633 (2019).
- 5. **K. Bageerathi** and P. Jeya Puvaneswari, "Neutrosophic Feebly Connectedness and Compactness," IOSR Journal of Polymer and Textile Engineering, 6 (3), 7-13 (2019).

- 6. S. Mari Maheswari and **M. J. Jeyanthi**, "Interval valued Fuzzy ideals of F-Semirings," International Journal of Mathematics and its Applications, 6 (3), 203-209 (2018) ISSN: 2347-1557.
- 7. B. Sorna Praba and **M. J. Jeyanthi**, "On Generalization of Generalized Regular B-closed sets in topological spaces," Proceedings of the instructional school on Emerging Trends in Advance Mathematics, 75-83 (2019).
- 8. B. Sorna Praba and **M. J. Jeyanthi**, "On Generalization of Generalized Regular B-open sets in topological spaces," International Journal of Mathematics Trends and Technology, 65 (4), 41-51 (2019) ISSN: 2231-5373.
- 9. **S. Nithyanantha Jothi** and S. Malathi, "On contra generalized c\*-continuous functions in topological sciences," Proceedings of National Seminar on New dimensions in Mathematics and its applications, 30-37 (2019).
- 10. S. Malathi and S. Nithyanantha Jothi, "On contra pre-generalized c\*-continuous functions in topological sciences," Proceedings of International Conference on Graph Theory and its applications," Emerging Trends in Pure and Applied Mathematics, 53-59 (2019).
- 11. S. Sharmila and **S. Nithyanantha Jothi**, "Some continuous and homeomorphism maps and separation axioms in supra topological spaces *via* supra β-open sets," Proceedings of International Conference on Graph Theory and its applications," Emerging Trends in Pure and Applied Mathematics, 1-8 (2019).
- 12. S. Sharmila and S. Nithyanantha Jothi, "Some maps *via* supra β-open sets," International Journal of Engineering and Science Research, 9 (3), 29-33 (2019).
- 13. S. Sharmila and **S. Nithyanantha Jothi**, "Further study on supra β-irresolute sets," International Journal For Science and Advance Research in Technology, 5 (5), 48-53 (2019).
- 14. M. Abirami and **S. Shenbaga Devi**, "Near difference cordial labeling of some graphs", International Journal for science and advance research in technology, 5 (4) (2019) ISSN No. 2395 1052.
- 15. P. Manimala and **S. Shenbaga Devi**, "Near skolem mean labeling for some path related graphs", International Journal for science and advance research in technology, ISSN No. 2395 1052, Volume 5, Issue 4, in April 2019.
- 16. R. Savithri and **S. Shenbaga Devi**, "Some results on difference mean cordial labeling", International Journal for science and advance research in technology, ISSN No. 2395 1052, Volume 5, Issue 4, in April 2019.
- 17. M. Jeya Packya Lakshmi and **S. Shenbaga Devi**, "Near difference mean cordial labeling of some path related graphs", International Journal for science and advance research in technology, ISSN No. 2395 1052, Volume 5, Issue 4, in April 2019.

- 18. R. Jeyakumari and **S. Shenbaga Devi**, "Generalized strongly b\*-closed sets in topological spaces" Proceeding of the instructional school on emerging trends in advanced mathematics (ISETAM) 2019, 63-67.
- 19. S. Malathi and **S. Nithyanantha Jothi**, "On pre-generalized c\*-homeomorphisms in topological spaces", Journal of ultra-scientist of physical sciences, JUSPS A, Volume. 30(11), 395-400, 2018.
- 20. N. Revathi and **K. Bageerathi**, "Extremely disconnected space in soft bitopological spaces", International Journal of Advanced Scientific Research and Management, 4 (4), 51-56 (2019) ISSN No. 2455 6378.
- 21. S. Muthu Lakshmi, **S. Nithyanantha Jothi**, "On supra pre-separated sets and supra pre-connected sets in supra topological spaces", Proceedings of the instructional school on emerging trends in advance mathematics -Instructional School on Emerging Trends in Advanced Mathematics, 2019
- 22. S. Sharmila, **S. Nithyanantha Jothi** "Totally supra β-continuous and slightly supra β-continuous functions" Proceeding of the instructional school on emerging trends in advanced mathematics ISETAM 2019, 11<sup>th</sup> and 12<sup>th</sup> February 2019.
- 23. S. Malathi, **S. Nithyanantha Jothi** "On pre-generalized c\*-neighborhoods in topological spaces" Proceeding of the instructional school on emerging trends in advanced mathematics ISETAM 2019, 11<sup>th</sup> and 12<sup>th</sup> February 2019.
- 24. S. S. Sabarina Subi, **S. Pasunkilipandian**, "Some graphs on 3-modulo difference cordial labeling", International Journal for science and advance research in technology, ISSN No. 2395 1052, Volume 5, Issue 3, in March 2019.
- 25. P. Jeya Puvaneswari, **K. Bageerathi**, "On neutrosophic feebly continuous functions" Journal of emerging technologies and innovative research, Vol. 6 Issue 1, ISSN No. 2349-5162, January 2019.
- 26. S. Muthu Lakshmi and **S. Nithyanantha Jothi**, "Further study on supra pre-connected sets in topological spaces", International Journal for science and advance research in technology, ISSN No. 2395 1052, Volume 5, Issue 4, in April 2019.

- 1. P. Iswarya and **K. Bageerathi**, "A study on neutrosophic semi-generalized closed sets in Neutrosophic topological spaces," Acta Cienica Indica, XLIII (4), 239-245 (2017).
- 2. P. Iswarya and **K. Bageerathi**, "A study on neutrosophic Frontier and Neutrosophic Semi Frontier Neutrosophic Spaces," Neutrosophic sets and systems, 16, 6-15 (2017).
- 3. N. Revathi and **K. Bageerathi**, "(1,2)\* soft B-continuous and b-closed map," Asian Journal of Mathematics and Computer Research," 17 (2), 111-122 (2017).
- 4. N. Revathi and **K. Bageerathi**, "Some properties of (1,2)\* soft B-connected spaces," International Journal of Algorithms and Computations, 49 (2), 119-127 (2019).

- 5. N. Revathi and **K. Bageerathi**, "New separation Axions in soft bitopological spaces," International Journal of Mathematics and its Applications, 5(4-A), 113-120 (2017).
- 6. P. Jeyapuvaneswari and **K. Bageerathi**, "Some new operators in Neutrosophic Topological spaces," Journal of Computer Mathematical Sciences, 10 (5), 1004-1010 (2018).
- 7. S. Malathi and S. Nithyanantha Jothi, "On c\*-open sets and generalized c\*-closed sets in topological spaces," Acta Cienca Indica, Vol. XLIIIM, No.2. 125-133 (2017).
- 8. S. Malathi and **S. Nithyanantha Jothi**, "On generalized c\*-open sets and generalized c\*-open maps in topological spaces, International Journal of Mathematics and its Applications, Vol. 5, Issue 5B, 121-127 (2017).
- 9. S. Malathi and **S. Nithyanantha Jothi**, "On pre-generalized c\*-closed sets in topological spaces," Journal of Computer and Mathematical Sciences, 8 (12), 720-726 (2017).
- 10. S. Malathi and S. Nithyanantha Jothi, "On generalized c\*-open sets and pre-generalized c\*-open maps in topological spaces," International Journal of Mathematical Archive, 8 (12), 66-70 (2017).
- 11. S. Malathi and **S. Nithyanantha Jothi**, "On pre-generalized c\*-continuous functions and pre-generalised c\*-irresolute functions in topological sciences," Mathematical Sciences International Research Journal, 7(4), 17-22 (2018).
- 12. S. Malathi and **S. Nithyanantha Jothi**, "On generalized c\*-neighborhoods and generalized c\*-homeomorphism in topological spaces," Proceeding of National Conference on Innovation in Mathematics, 87-95 (2018).
- 13. S. Malathi and **S. Nithyanantha Jothi**, "On generalized c\*-continuous functions and generalised c\*-irresolute functions in topological sciences," Turkish Journal of Analysis and Number Theory, 6 (6), 164-168 (2018).
- 14. V. Ananthasuruthi and **S. Pasunkilipandian**, "Some Allied Open Functions *via* Semi\*Preopen and Preopen Sets in Topology", International Journal of Mathematics Trends and Technology (IJMIT), Volume 56, Number 6, April 2018.
- 15. **S. Pasunkilipandian**, "On Intuitionistic Topological Spaces", Mathematical Sciences International Research Journal, Volume 7, Sp Issue 1, Jan 2018.
- 16. **S. Shenbaga Devi** and A. Nagarajan, "Changing Behavior of Vertices of Some Graphs", International Journal of Scientific Research in Science, Engineering and Technology, 4 (1), 400-405 (2018) Print ISSN: 2395-1990, Online ISSN:2394-4099.
- 17. **S. Shenbaga Devi** and A. Nagarajan, "Near Skolem Difference Mean Labeling of Some Cycle Related Graphs", International Journal for science and advance research in technology, Volume-3, Issue 12, ISSN ONLINE: 2395-1052, December 2017.
- 18. **S. Shenbaga Devi** and A. Nagarajan, "On Changing Behavior of Edges of Some Graphs I", International Journal for science and advance research in technology, Volume 4, Issue1, ISSN: 2395-1990; Online ISSN:2395-1052, 941-945.

- 19. P. Janaki and **J. Rajakumari**, "On Minimal and Maximal  $\psi g^*$ -closed sets", International Journal of Mathematical Archieve, 8(8),1-6 (2017), ISSN 2229-5046.
- 20. **S. Shenbaga Devi** and A. Nagarajan, "Near Skolem Difference Mean Labeling of Special Types of Trees", International Journal of Mathematics Trends and Technology, 52 (7), 474-478 (2017) ISSN: 2231-5373.
- 21. **S. Shenbaga Devi** and A. Nagarajan, "On Near Skolem Difference Mean Graphs", International Journal of Mathematics Archive, 9(2), 29-36 (2018).
- 22. **S. Shenbaga Devi** and A. Nagarajan, "Further Results on Near Skolem Difference Mean Graphs", Journal of Computer and Mathematical Sciences, 9 (2), 49-55 (2018).
- 23. **S. Shenbaga Devi** and A. Nagarajan, "Near skolem Differences Mean Labeling of Special class of graphs", Journal for Advanced Research in Applied Sciences, ISSN No: 2394-8442, Volume 5, Issue 2, Feb. 2018.
- 24. **S. Shenbaga Devi** and A. Nagarajan, "On duplication of near skolem difference mean graph p<sub>n</sub>", International Journal of Statistics and Applied Mathematics, 3(2), 93-100, (2018).
- 25. **S. Shenbaga Devi** and A. Nagarajan, "On Changing Behavior of Edges of Some special classes of Graphs II", International Journal of Recent Scientific Research, 9 [3(J)], 25334-25339 (2018).
- 26. **S. Saranya** and **E. S. R Francis Vijayarani**, "On (gsp)\*\*-Closed Sets in Topological Spaces", International Journal of Mathematics Archive -9(2), 2018,109-114.
- 27. **P. Selvan** and **M. J. Jeyanthi**, "Generalized B-Strongly B\*-Separation Axioms in Topological Spaces", International Journal of Research Science & Management, ISSN 2349-5197, 17-21, November 2017.
- 28. **S. Saranya** and **K. Bageerathi**, "On Characterization of v-open sets in a topological space", International Journal of Mathematics Archive, 8(12), 140-144 (2017).
- 29. **S. Saranya** and **K. Bageerathi**, "On v –Separation Axioms in Topological spaces", Mathematical Sciences International Research Journal Volume 7, spl Issue 1, ISSN 2278-8697.
- 30. **S. Saranya** and **K. Bageerathi**, "A New Closure and Interior Operators *via* V-Closed sets and V-Open Sets", International Journal of Mathematics Trends and Technology, ISSN: 2231-5373, Volume 53, Number 6, January 2018.
- 31. **P. Selvan** and **M. J. Jeyanthi**, "More on gbsb\*- Closed sets in Topological Spaces", Scholars Journal of Physics, Mathematics and Statistics, ISSN:2393-8056, Page 113-120.

- 1. **S. Saranya** and **K. Bageerathi**, "Some properties of semi \*generalized open sets in topological spaces," International Journal of Mathematical Archive and its Application, 5 (1-C), 349-357 (2017).
- 2. **S. Saranya**, "Pre \* regular generalized closed sets in Topological spaces," International Journal of Mathematical Archive, 8 (5), 131-135 (2017).
- 3. **S. Saranya** and **K. Bageerathi**, "Semi \*generalized continuous functions in topological spaces," Enrich Research Journal, VII (II), 101-108 (2017).
- 4. **S. Saranya** and **K. Bageerathi**, "Semi \*generalized closed sets in topological spaces," International Journal of Mathematical Trends and Technology, 36 (3), 140-144 (2016).
- 5. **K. Bageerathi** and P. Jeya Puvaneswari, "On Neutrosophic Feebly open sets in Neutrosophic topological spaces," International Journal of Mathematical Trends and Technology, 41 (3), 230-237 (2017).
- 6. **K. Bageerathi** and P. Jeya Puvaneswari, "Pre \* generalized closed sets in topological spaces," International Journal of Mathematical Trends and Technology, 8 (1), 65-72 (2017).
- 7. **P. Selvan** and **M. J. Jeyanthi,** "Generalized b-strongly b\*-closed sets in topological spaces," International Journal of Mathematical Archive, 8(5), 27-34 (2017) ISSN: 2229-5046.
- 8. **S. Nithyanantha Jothi**, "Binary semi open sets in binary topological spaces", International Journal of Mathematical Archive, 7 (9), 73-76 (2016).
- 9. **S. Nithyanantha Jothi**, "Binary semi continuous functions," International Journal of Mathematics Trends and Technology, 49 (2), 152-155 (2017).
- 10. **J. Rajakumari and C. Sekar,** "A New Notion of Generalized Closed Sets in Topological Spaces", International Journal of Mathematics Trends and Technology, 36(2), 124-129 (2016) ISSN: 2231-5373.
- 11. **J. Rajakumari and C. Sekar,** "On αg\*p-continuous and αg\*p-irresolute Maps in Topological Spaces", International Journal of Mathematical Archieve, 7(8), 124-131 (2016) ISSN: 2229-5046.
- 12. **J. Rajakumari and C. Sekar,** "On  $\alpha g^*p$ -Connectedness and  $\alpha g^*p$ -Compactness in Topological Spaces", International Journal of Mathematical Archieve , 7(9), 154-161 (2016) ISSN: 2229-5046.
- 13. **J. Rajakumari and C. Sekar,** "On αg\*p-Regular and αg\*p-Normal Spaces", Asian Journal of Current Engineering and Maths, 5(6), 1110-113 (2016) ISSN No : 2277-4920.
- 14. **J. Rajakumari and C. Sekar,** "New Class of  $\alpha g^*p$ -Continuous Functions in Topological Spaces", International Journal of Mathematics and its applications, 4(3-A), 149-155 (2016) ISSN: 2347-1557.
- 15. **J. Rajakumari and C. Sekar,** "Contra Alpha Generalized Star Pre-Continuous Functions in Topological Spaces", Journal of Global Research in Mathematical Archives ,3(8), 1-7 (2016) ISSN: 2320 -5822.

- 1. **S. Nithyanantha Jothi**, "Binary T<sub>1/2</sub> Spaces", Acta Ciencia India, Vol. XLI M, No. 3, 241 (2015).
- 2. **K. Bageerathi**, "A new concept of fuzzy supra boundary," Bulletin of Kerala Mathematical Society, 12 (2), 185-198 (2015).
- 3. **K. Bageerathi**, "Generalization of fuzzy b-open sets in fuzzy topological spaces," Aryabhata Journal of Mathematics and Informatics, Vol. 07 (01), 27- 42 (2015).
- 4. **K. Bageerathi**, "Generalization of fuzzy b-boundary," International Journal of Engineering & Scientific Research, vol. 03 (10), 144-159 (2015).
- 5. T. Thangam and **K. Bageerathi**, "Generalized of fuzzy semi boundary in fuzzy Bitopological Spaces," International Journal of Applied Research, 1 (11), 806-812 (2015).
- 6. T. Thangam and **K. Bageerathi**, "On weak forms of continuous ane irresolute functions in fuzzy bitopological spaces," International Journal of Ultra-Scientist of Physical Sciences, 27(3A), 205-216 (2015).
- 7. N. Revathi and **K. Bageerathi**, "On soft B-open sets in soft bitopological spaces," International Journal of Applied Research, 1(11), 615-623 (2015).
- 8. P. Iswarya and **K. Bageerathi**, "On Neutrosophic semi-open sets in Neutrosophic topological spaces," International Journal of Mathematics Trends and Technology, 37 (3), 214-223 (2016).

- 1. **K. Bageerathi**, "A generalization of fuzzy semi open sets in intuitionistic fuzzy topological spaces," Bulletin of Kerala Mathematical Society, 11 (2), 137-147 (2014).
- 2. **C. Sekar**, "Total Dominating Sets and Total Domination Polynomials of Square of Cycles", IOSR Journal of Mathematics, 10 (4), 78-85 (2014).
- 3. C. Sekar, "Total Dominating Sets and Total Domination Polynomials of Square of Paths", IOSR Journal of Mathematics, 10 (2), 52-58 (2014).
- 4. **C. Sekar**, "Graceful Labeling of Super sub division of Ladder", International Journal of Mathematics and Its Applications, 2 (2), 29-36 (2014).
- 5. **C. Sekar**, "One Modulo N Gracefulness of Splitting Graphs and Subdivision of Double Triangle Graphs", International Review of Scientific Synthesis, Vo. 125, Dec. 2014.
- 6. **C. Sekar,** "One Modulo N Gracefulness of Regular Bamboo Tree and Coconut Tree", International journal of applications of graph theory in wireless adhoc networks and sensor networks, Vol. 6, No. 2 June 2014.
- 7. **C. Sekar**, "One Modulo N Gracefulness of Arbitrary Super sub divisions of Graphs", International J. Math. Combin. 2, 36-46 (2014).

- 8. **C. Sekar**, "Soft pre T<sub>1</sub> Space in the Soft Topological Spaces", International Journal of Fuzzy Mathematics and Systems, 4.(2), 203-207 (2014).
- 9. **C. Sekar**, "Soft Pre Generalized Closed Sets in a Soft Topological Space", International Journal of Engineering Trends and Technology, Vol. 12, No. 7, Jun. 2014.
- 10. C. Sekar, "Related properties of soft dense and soft preopen sets in a soft topological space", International Journal of Innovative and Applied Research (2014) Vol. 2, Issue 9.
- 11. **C. Sekar**, "Some graph products on (r, 2, k) regular graphs", International Journal of Mathematics and Soft Computing, Vol. 4, No. 2 (2014) pp. 173-181.
- 12. **C. Sekar**, "On (2, k) regular and totally (2, k) regular fuzzy graphs", International Journal of Mathematics and Soft Computing, Vol. 4, No. 2 (2014) pp. 59-69.
- 13. **A. Robert**, "New Notions *Via* Semi-Star-Alpha-Open Sets", International Journal of Engineering Mathematics and Computer 3:8 (2014) pp. 1 4.
- 14. **A. Robert**, "Functions Associated with Semi\* Open Sets", International Journal of Modern Sciences and Engineering Technology, Vol. 1, Issue 2, 2014, pp. 39-46.
- 15. **A. Robert**, "High Separation Axioms via Semi\* Open Sets", International Journal of Engineering and Science, Vol. 4, Issue 6, June 2014, pp 37-45.
- 16. **A. Robert**, "Between a closed Sets and Semi a closed Sets", International Journal of Modern Engineering Research, Vol. 4, Issue 6, June 2014, pp. 34-41.
- 17. **A. Robert**, "Semi-Star-Alpha-Open Sets and Associated Functions", International Journal of Computer Applications, Vol. 104, No. 16, Oct. 2014, pp. 24-29.
- 18. **A. Robert**, "Connectedness and Compactness *via* Semi-Star-Alpha-Open Sets", International Journal of Mathematics Trends and Technology, Vol. 12, No. 1, Aug. 2014, pp. 1-7.
- 19. **A. Robert**, "A New Class of Sets Weaker than α open Sets", International Journal of Mathematics and Soft Computing, Vol. 4, No. 2 (2014) pp. 197-206.
- 20. **K. Bageerathi**, "On Fuzzy <sup>γ</sup> Pre Open Sets and Fuzzy <sup>γ</sup> Pre Closed sets in Fuzzy Topological Spaces", International Journal of Innovative and Applied Research (2014) Vol. 2, Issue 5.
- 21. **K. Bageerathi**, "A Comparative Study on Boundary Concept in Different Aspects", International Journal of Mathematical Archive 5 (8), 2014 pp. 8-14.
- 22. **K. Bageerathi**, "A Generalization of Fuzzy Semi Closed Sets in Fuzzy Topological Spaces", Mathematical Sciences International Research Journal, Vol. 3, Issue 2, 2014 pp. 872-875.

- 23. **S. Nithyanantha Jothi**, "Generalized binary closed sets in binary topological spaces", International Journal of Physical Sciences, Vol. 26 (1) A, (2014), pp. 25-30.
- 24. **T. Selvi**, "On Pre\* Regular and Pre\* Normal Spaces", International Journal of Archimedes J. Math., Vol. 4(2), 2014, pp. 76-88.
- 25. C. Sekar, "One Modulo N Gracefulness of Super sub divisions of Ladder", Discrete Mathematical Sciences and Cryptography.

# **Department of Physics**

- 1. S. R. Balaji, **T. Balu**, T. R. Rajasekaran, "Growth and Characterization of Pure and *L*-Arginine doped Bis (glycine) Lithium Chloride Single Crystal" Journal of Applied Science and Computations, Volume V, Issue XII, ISSN No. 1076-5131, December 2018.
- 2. G. Vasuki, **T. Balu**, "Magnetic and electrical analysis of chemically derived Cu<sub>0.5</sub>Mn<sub>0.5</sub>Al<sub>0.5</sub>Fe<sub>1.5</sub>O<sub>4</sub> Nanocrystallites", International Journal of Research and Analytical, Volume 5, Issue 4, October 2018.
- 3. G. Vasuki, **T. Balu**, "Systematic investigations on the effect of divalent metal ions (Mg<sup>2+</sup> and Zn<sup>2+</sup>) substitution of nanocrystalline manganese ferrites", Journal of Nano and Electronic Physics, Volume 11 No. 1 01021, 2019.
- 4. R. Sreedevi, T. Joselin Beaula, **T. Balu**, P. Murugakoothan, T.R. Rajasekaran, "Structural and thermal analysis of guanidinium sulphanilate (GSA) single crystal with DFT approach",
- 5. D. Shanthi, **P. Selvarajan**, and S. Perumal, "XRD, Optical, Third Order NLO and Dielectric studies of β-Alaninium Maleate (BAM) crystals", International Journal of Research and Analytical Reviews (IJRAR), Vol. 5, No.4, pp. 525-534,2018.
- 6. U. Rajesh Kannan, G. Narayanasamy, S. Subramanian, **P. Selvarajan**, "Studies of Glycine Dimethyl Urea Crystals Grown by Aqueous Solution Method," Journal of Pure and Applied Science & Technology, Vol. 8, No.1, pp.18-40,2018
- 7. U. Rajesh Kannan, G. Narayanasamy, S. Subramanian, **P. Selvarajan**, "Spectroscopic, thermal, second order and third order NLO studies of *N*, *N*'-dimethyl urea crystal", Journal of Applied and Advanced Research, Vol. 3, No.1, pp. 1–8, 2018.
- 8. U. Rajesh Kannan, G. Narayanasamy, S. Subramanian, **P. Selvarajan**, "Spectroscopic, NLO and thermal studies of single crystals of picric acid", International Journal of Research and Analytical Reviews, Vol.5, No.1, pp.685-693, 2018.

- 9. J. Jude Brillin, **P. Selvarajan**, U. Rajesh Kannan, "Studies of *L*-arginine sodium fluoride crystals grown by slow evaporation technique", International Journal of Scientific Research and Reviews, Vol.7, No.3, pp.1-11, 2018.
- 10. J. Jude Brillin, **P. Selvarajan**, U. Rajesh Kannan, "Growth and characterization of crystals of thiourea sodium fluoride", International Journal of Research and Analytical Reviews, Vol. 5, pp.1105-1111, 2018.
- 11. J. Velins Stanly, C. Muthukrishnan, **P. Selvarajan** and U. Rajesh Kannan, "Spectral, dielectric, hardness and NLO studies of lithium chloride doped hippuric acid crystals", Journal of Applied Science and Computations, Vol. 5, pp.678-689, 2018.
- 12. J. Velins Stanly, C. Muthukrishnan, **P. Selvarajan** and U. Rajesh Kannan, "Solution growth and studies of strontium chloride doped ammonium dihydrogen phosphate crystals", Journal of Emerging Technologies and Innovative Research (JETIR), Vol.5, pp.508-517, 2018.
- 13. G. P. Sankar Ganesh, U. Sankar, **P. Selvarajan** and U. Rajesh Kannan, "Structural, optical, hardness and impedance studies of bis-Glycinium Oxalate (BGLO) single crystals", Journal of Applied Science and Computations, ISSN NO: 1076-5131, Vol.5, pp.1542-1549,2018.
- 14. S. Sudharthini, **P. Selvarajan**, C. Gnana Sambandam and U. Rajesh Kannan, "Growth, XRD, FTIR and Second Order NLO studies of Undoped and Zinc Sulphate doped *L*-Histidine Single Crystals", Trends in Opto-Electro & Optical Communications, ISSN: 2231-0401, Vol.8, pp.31-36, 2018.
- 15. U. Rajesh Kannan, G. Narayanasamy, S. Subramanian, **P. Selvarajan**, "Structural, optical, mechanical and third order NLO studies of tetrakis- thiourea trichloroacetate (TTCA) single crystals", Journal of Applied Science and Computations, ISSN No: 1076-5131, Vol.6, pp. 364-377,2019.

- 1. T. Manju and **P. Selvarajan**, "Nucleation Kinetics, Metastable Zone Width and Characterization of Ferric Sulfate Doped KDP Crystals Grown by slow Evaporation Technique", International Journal of Current Research and Modern Education (IJCRME), ISSN(Online)2455-5428, Volume 3, Issue 1,2018.
- 2. J. Jude Brillin and **P. Selvarajan**," XRD, Optical, Mechanical and Dielectric Studies of Sodium Sulfate Doped Tetrakis -Thiourea Potassium Chloride Crystals", International Journal of Scientific Research and Reviews, IJSRR 2018, 7(2), ISSN: 2279-0543, 404-420.

- 3. J. Velins Stanley, C. Muthu Krishnan and **P. Selvarajan**, "Studies of Hippuric Acid Crystals Doped with Mercury Chloride", International Journal of Advanced and Innovative Research (2278-844), Volume 7, Issue 9.
- 4. T. Manju and **P. Selvarajan**, "Investigations on Growth and Characterization of Mono-Urea Oxalic Acid Crystals", International Journal of Applied Engineering Research, ISSN 0973-4562, Volume 13, Number 13, pp. 11054-11061, 2018.
- 5. U. Rajesh Kannan, G. Narayanasamy, S. Subramanian and **P. Selvarajan**, "Studies of Glycine Dimethyl Urea Crystals Grown by Aqueous Solution Method", International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 6.887 Volume 6 Issue I, January 2018.
- P. Geneva Sequirea Roche, A. Lesly Fathima and P. Selvarajan, "Crystal Nucleation, Crystal Growth, Spectral and SHY Studies of Potassium iodate crystal", International Journal of Advanced Trends in Engineering and Technology (IJATET), (Online):2456-4664, Volume 3, Issue 1,70-78,2018.
- 7. J. Uma Maheswari, C. Krishnan, S. Kalyanaraman and **P. Selvarajan**, "Physical properties of Lauric acid crystals grown with KBr in aqueous solution", Bull. Mater. Sci., 41:46, 2018.
- 8. T. Gladys Vimala, E. Bena Jothy and **P. Selvarajan**, "XRD, SHG, LDT, Hardness, Dielectric and Impedance Studies of L-Cysteine Crystals", International Journal of Research in Engineering and Applied Sciences, (IJREAS), Vol.7 Issue 6, June-2017, pp.324-334.
- 9. **R.** Sreedevi, G. Saravana Kumar, K. Amarsingh Bhabu, **T.** Balu and T. R. Rajasekaran, "Growth, structural, optical, mechanical and quantum chemical analysis of unidirectional grown bis(guanidinium) 5-sulfosalicylate (BGSSA) single crystal", Physica B: Physics of Condensed Matter, Volume 531, p. 21-29.
- 10. **G. Vasuki** and **T. Balu**, Effect of Cu<sup>2+</sup> substitution on the structural, optical and magnetic behaviour of chemically derived manganese ferrite nanoparticles," Materials Research Express, Volume 5, Number 6, 2018.
- 11. U. Rajesh Kannan, G. Narayanasamy, S. Subramanian and **P. Selvarajan**, "Spectroscopic, thermal, second order and third order NLO studies of *N*,*N*'-dimethyl urea crystal", Journal of Applied and Advanced Research, 3(1): 1–8, 2018.
- 12. A. S. I. Joy Sinthiya and **R. Sreedevi**, "Growth, Optical, Mechanical and Electrical Properties of Zinc Sulphate Admixture N-N'-dimethylurea Single Crystals (DMUZS)", Research and Reviews: Journal of Physics, ISSN:(2278-2265(Online), ISSN:2347-9973(Print), Volume 7, Issue 1, 24-33, 2018.

- 13. T. Manju and **P. Selvarajan**, "Growth and Studies of Potassium Dihydrogen Phosphate Crystals Doped with Picric Acid", Asian Journal of Engineering and Applied Technology, Volume 7, No.1, pp 53-58, 2018.
- 14. S. R. Balaji, **T. Balu** and T. R. Rajasekaran, "Single crystal growth, structure refinement and the properties of Bis(glycine) Strontium Chloride", Materials Research Express, IOP Publishing 5, (2018) 026205.
- 15. S. Benita Jeba Silviya, C. K. Mahadevan, **T. Balu**, A. Moses Ezhil Raj and S. Balakumar, "Effect of urea as an impurity on the structural, Optical and electrical properties of potassium pentaborate dehydrate single crystals," International Journal of Advanced Engineering Research and Technology (IJAERT), Volume 5, Issue 8, ISSN No. 2348-8190, August 2017.

- 1. K. Amarsingh Bhabu, J. Theerthagiri, J. Madhavan, **T. Balu**, T. R. Rajeskaran and A. K. Arof, "Investigations on acceptor (Pr<sup>3+</sup>) and donor (Nb<sup>5+</sup>) doped cerium oxide for the suitability of solid oxide fuel cell electrolytes", Springer-Verlag Berlin Heidelberg- 2016.
- 2. K. Amarsingh Bhabu, J. Theerthagiri, J. Madhavan, **T. Balu**, G. Muralidharan and T.R. Rajeskaran, "Enhanced electrochemical behavior of ceria-based zirconia electrolytes for intermediate temperature solid oxide fuel cell applications", Springer Science Business Media New York, 2016.
- 3. K. Amarsingh Bhabu, J. Theerthagiri, J. Madhavan, **T. Balu** and T. R. Rajasekaran, "Superior oxide icon conductivity of Novel Acceptor Doped Cerium oxide Electrolytes forintermediate-Temperature solid oxide fuel cell Application", J. Phys. Chem. C, 120, 18452–18461, 2016.
- 4. **G. Vasuki** and **T. Balu**, "Structural and Magnetic characterization of copper manganese ferrite nanoprticles synthesized by chemical coprecipitation route", International Journal of Latest Trends in Engineering Technology, pp. 132-134, 2017.
- 5. B. Benita Jebasilviya, A. Moses Ezhil Raj and **T. Balu**, "Synthesis, growth and spectroscopic studies of nonlinear optical mixed borate crystal", Asian Journal of Research in Social Science and Humanities, Vol. 6, No.6, pp. 2401 2407, June 2016.
- 6. J. Uma Maheswari, C. Krishnan, S. Kalyanaraman and **P. Selvarajan**, "Characterization of potassium bromide crystals grown in the aqueous solution of picric acid", Physica B: Condensed Matter, 502 (1), 32-38, 2016.
- 7. J. Uma Maheswari, C. Krishnan, S. Kalyanaraman and **P. Selvarajan**, "Growth and characterization of an organic nonlinear optical materialluric acid crystal", IOP publication Ltd, 2016.

- 8. G. Emerson Robin, U. Sankar, T. Chithambarathanu and **P. Selvarajan**, "Effect of Magnesium sulfate on various properties of lithium formate monohydrate crystals", International Journal of Engineering and Applied Science (IJEAS), Vol -3, 2016.
- 9. P. Manimekalai and **P. Selvarajan**, "Spectral, mechanical, dielectric and third order NLO properties of diglycine magnesium sulfate crystals", International Journal of Advanced Scientific and Technical Research, Vol -6, 2016.
- 10. S. Gracelin Juliana, **P. Selvarajan** and S. Perumal, "Studies on growth, mechanical, spectral and dielectric properties of triglycine sulpho phosphate crystals doped with *L*-tartaric acid", International Journal of Engineering and Applied Science, Vol 3, 2016.
- 11. T. Gladys Vimala, E. BenaJothy and **P. Selvarajan**, "Growth and studies of γ-glycine crystals doped with zinc sulfate", International Journal of Engineering and Applied Sciences, Vol -3, 2016.
- 12. U. Rajesh Kannan, G. Narayanansamy, S. Subramanian and **P. Selvarajan**, "Investigation on growth and characterization of *tetrakis*-Thiourea Nickel sulphate crystals", International Journal of Advanced Trends in Engineering and Technology, Vol-2, 2017.
- 13. S. Gracelin Juliana and **P. Selvarajan**, "Growth and characterization of undoped and zincchloride doped *L*–Asparagine crystals", International Journal of Advances Trends in Engineering and Technology, Vol- 2, Issue 2, 2017.
- 14. M. Andiappan, **P. Selvarajan** and S. Perumal, "Growth and studies of ammonium cadmium sulfate hydrate crystals", International Journal of Advances Trends in Engineering and Technology, Vol 2, Issue 2, 2017.
- 15. T. Gladys Vimala, E. Bena Jothy and **P. Selvarajan**, "Characterization of  $\gamma$ -glycine crystals grown using rubidium chlorideas an additive (GGRC)", International Journal of Advances Trends in Engineering and Technology, Vol 2, Issue 1, 2017.
- 16. G. Emerson Robin, U. Sankar, T. Chithambarathanu and **P. Selvarajan**, "Growth and characterization of  $\gamma$ -glycine crystals doped with potassium carbonate", International Journal of Advanced Trends in Engineering and Technology, Vol 2, Issue -1, 2017.
- 17. S. G. Pushpalatha Gracelin, C. Krishnan and **P. Selvarajan**, "Studies of  $\gamma$ -glycine crystals grown in the aqueous solution of zinc chloride", International Journal of Advanced Trends in Engineering and Technology, Vol 2, Issue 2, 2017.
- 18. S. G. Pushpalatha Gracelin, C. Krishnan and **P. Selvarajan**, "Second ordered NLO, Thirdordered NLO and other studies of γ-glycine crystals grown using zinc acetate as an additive", International Journal of Applied and Advanced Scientific Research, Vol-2, Issue 2, 2017.

- 19. N. Rathna, V. S. John, T. Chithambarathanu and **P. Selvarajan**, "Studies on growth and characterization of glycine Ammonium sulphate crystals", International Journal of recent scientific research, Vol- 7, Issue 11, pp.14379 14383, 2016.
- 20. **G. Vasuki** and **T. Balu**, "Structural and Magnetic characterization of copper magnetic ferrite nanoparticles synthesized by chemical coprecipitation route", International Journal of Latest Trends in Engineering and Technology, pp- 132 134, 2017.
- 21. N. Rathna, V.S. John, T. Chithambarathanu and **P. Selvarajan**, "Growth, NLO, Z-scan and impedance studies of glycine potassium sulphate crystals grown by aqueous solution technology", Journal of Chemical and Pharmaceutical Research, Vol 8(5), pp-177-185, 2016.
- 22. D. Shanthi, **P. Selvarajan** and S. Perumal, "Growth, linear optical constant and photoluminescence characteristics of β-alaninium picrate (BAP)crystals", Optik, 127 (6), 3192-3199, 2016.
- 23. J. Uma Maheswari, C. Krishnan, S. Kalyanaraman and **P. Selvarajan**, "Modification of properties of potassium crystals in the growth medium of aqueous solution of *L*-arginine", Journal of functional materials and biomolecules, pp-6-12, 2017.
- 24. S. Benita Jebasilviya, C.K. Mahadevan, **T. Balu**, A. Moses Ezhil Raj and S. Balakumar, "Growth and Physicochemical properties of pure and urea doped sodium pentaborate dehydrate single crystals", International Journal of Chem. Tech. Research, Vol-7, pp-553-562, 2017.

- 1. **T. Balu**, "Estimation of lattice stress and strain in zinc ferrite nanoparticles by Williamson hall and size-strain plot methods", Indian Journal of Research Foundation ISSN 245-6577, 10, December 2015.
- 2. **T. Balu** and **R. Sreedevi**, "Growth and Characterization of bis *L*–alanine Strontium Nitrate single crystals", ISSN:2278 -4861. Volum8, (Jan-Feb2016) pp. 61-68.
- 3. **T. Balu** and **R. Sreedevi**, "Growth and Characterization of *N,N*'- Dimethylurea Admixtured Sulphamic acid Single Crystals, Asian Journal of Chemistry: Vol,27 No 7 (2015), 2642-2646, Impact factor: 0.14.
- 4. **T. Balu**, "Synthesis and characterization of zinc stannate nanomaterials by sol-gel method", ISSN: 1661-9752, Materials Science Forum, Vol.832 (2015) pp 144-157, Impact factor: 0.28.
- 5. **P. Selvarajan**, "Characterization of gamma-glycine crystals grown in the aqueous solution of zinc acetate", ISSN: 0975-7384 Journal of Chemical and Pharmaceutical Research.

- 6. **P. Selvarajan**, "Nucleation kinetics, growth and studies of diglycine Magnesium sulfate crystals", ISSN: 0975-7384, Journal of Chemical and Pharmaceutical Research, Impact factor :0.20.
- 7. **P. Selvarajan**, "Solution growth, spectral and mechanical studies of cadmium sulfate hydrate (CDSH) crystals", ISSN: 0975-7384 Journal of Chemical and Pharmaceutical Research, 2015, 7(8), 1001-1007, Impact factor :0.20.
- 8. **P. Selvarajan**, "Studies on Characterization of Sodium Fluoro Antimonate Crystals Grown by Solution Method", ISSN:9, Volume 2 (September 2015), International Journal of Innovative in Advanced Engineering, Impact factor: 0.3916.
- 9. **T. Balu**, "Molar spin-susceptibility measurement of Manganese ferrite nanoparticles using Electron Spin Resonance study", ISSN: 0167-577x, Materials Letters, Impact factor: 2.56.
- 10. **M. Melvin David Kumar**, "ITO nanowires-embedding transparent NiO\ZnO Photodetector," ISSN: 0025-5408/ 2016, Materials Research Bulletin, Impact factor: 2.446.
- 11. **T. Balu** and **R. Sreedevi**, "Investigations on growth and characterization of glycine admixture sodium molybdate crystals for nonlinear applications", ISSN: 0030-4026/2015, Optik, Impact factor: 0.835.
- 12. **T. Balu**, "Synthesis and Characterization of metal (Mn, Zn) ferrite magnetic nanoparticles, Science Direct, ISSN: 2214-7853 (2015), Impact factor: 0.835
- 13. **P. Selvarajan**, "Second order, third order NLO and other properties of *L*-alanine crystals admixture with perchloric acid (LAPA)", Optik, ISSN: 0030-4026 (2014), Impact factor: 0.835.
- 14. **P. Selvarajan**, "Growth and characterization of Manganese Sulpho Tartrate (MST)-A semiorganic NLO crystal", Optik, ISSN: 0030-4023, ), Impact factor: 0.835.
- 15. **P. Selvarajan**, "Structural Analysis of γ-Glycine Crystal Grown using the Aqueous Solution of a Glycine and Guanidine Hydrochloride", International Journal of Chem. Tech Research, Coden ISSN: 0974-4290, Vol.8, No.1, PP 105-110-2015, Impact factor: 0.34.
- 16. **T. Balu** and **R. Sreedevi**, "Growth and characterization of Imidazole Potassium Chloride A Semiorganic NLO Crystal", International Journal of Chem. Tech. Research ISSN: 0974-4290, Vol.8, No.1, PP1338-1345 2015, Impact factor: 0.34.
- 17. **T. Balu** and **R. Sreedevi**, "Growth and Characterization of *D* alanine bromide crystals", Optik, ISSN:0030-4026 (2014), Impact factor: 0.835.

- 18. **T. Balu**, "Cubic fluorite phase of samarium doped cerium oxide (CeO<sub>2</sub>) <sub>0.96</sub> Sm<sub>0.04</sub> for solid oxide fuel cell electrolyte", Journal of Materials Science Materials in Electronics, ISSN: 0957-4522, Impact factor: 1.30.
- 19. **M. Melvin David Kumar**, "CdSe Nanoparticles in type II Band Alignment Structure: Trapping Mechanism of SIO<sub>x</sub> Matrix Layer, International Journal of Technical Research and Applications e-ISSN: 2320-8163, 2016. Pp 82-86, Impact factor: 4.39.
- 20. **T. Balu**, "Growth and Characterisation of Imidazole Potassium Sulphate— A Semiorganic NLO Crystal", International Journal of Advanced Scientific and Technical Research Issue 5Volume4, July August 2015 ISSN: 2249-9954, Impact factor: 3.94.
- 21. **M. Melvin David Kumar**, "Transparent conductor-embedding high-sensitive germanium NIR photodetector", Materials Science in Semiconductor Processing, ISSN: 1369 -8001, 2016, Impact factor: 2.41.
- 22. **M. Melvin David Kumar**, "Increased spectral sensitivity of Si photodetector by surface plasmon effect of Ag nanowires", Infrared Physics & Technology, ISSN: 1350-4495, 2016, Impact factor: 1.89.

- 1. **P. Selvarajan**, "Spectral, Second Harmonic, Third Harmonic and Thermal analysis of phosphorous acid admixture *L*-Alanine Crystals (PALA)", International Journal of Chem. Tech. Research, CODEN (USA) Vol. 6, No. 3, pp. 1578-1581, 2014.
- 2. **P. Selvarajan**, "Studies of *L*-alaninium maleate crystals admixtured with urea (LAMU) grown by slow cooling method", International Journal of Chem Tech Research, CODEN (USA) Vol. 6, No. 6, pp. 3248-3251, 2014.
- 3. **P. Selvarajan**, "Nucleation Kinetics, Growth, NLO Studies, Hardness Parameters and Etching Analysis of Phosphoric Acid Added *L*-Alanine Single Crystals (PLA)", International Journal of Chem. Tech. Research, CODEN (USA) Vol. 6, No. 11, pp. 4702-4708, 2014.
- 4. **P. Selvarajan**, "Growth, Hardness Parameters, Laser Damage Threshold and Thermal Analysis of *L*-Alanine Crystals Grown in Aqueous Solution of Hydrofluoric Acid (LAHF)", International Journal of Innovative Research in Science & Engineering, Vol. 2(1), pp. 612 615, 2014.
- 5. **P. Selvarajan**, "Growth, Mechanical and Impedance Studies of β-Alanine Single Crystals", International Journal of Innovative Research in Science & Engineering, pp. 165-169, 2014.
- 6. **T. Balu**, "Synthesis, Growth and Characterization of bis-Glycine lithium chloride-A Semi-organic NLO Material", International Journal of Advanced Research in Engineering and Technology (IJARET), Vol. 5, Issue 6, pp. 204-211, 2014.

- 7. **T. Balu**, "FT-IR, SHG and Thermal Characterizations of Bis (glycine) Lithium Chloride (BGLC) single crystal", Proceedings of National Seminar on Advances in Materials Science, 29-30 Sept. 2014.
- 8. **T. Balu**, "Molecular structure, vibrational spectroscopic (FT-IR and FT-Raman) and Quantum chemical calculations of nicotinium oxalate", Proceedings of National Seminar on Advances in Materials Science, 29-30 Sept. 2014.

# **Department of Chemistry**

#### 2018-19

- 1. P. Muhambihai, V. Rama and **P. Subramaniam**, "A Study on the Degradation of Aniline Blue Using ZnO based Nano composites with calcinated black soil", page 133-135.
- 2. P. Muhambihai, V. Rama and **P. Subramaniam**, "Calcination of red soil and black soil used for the degradation of aniline blue dye", International Journal of Scientific Research and Reviews, 8 (1), 1714-1726 (2019).
- 3. P. Muhambihai, V. Rama and **P. Subramaniam**, "Catalytic Degradation of organic dye using ZnO nano particles and its nanocomposites with calcinated Black soil", International Journal of Scientific Research and Reviews, 8 (4), 164-170 (2019).

- 1. M. Maria Albert Denison, D. Kanagavel and **P. Subramaniam**, "Spectral, Thermal, Fluorescence and Antimicrobial studies of binuclear Mn(II) Complexes with bis-(Carboxyamides) derived from 4,4'-diaminobiphenyl-1,4-diaminobenzenewith anhydrides", **Inter. J. Res. Advent Tech.**, 6, 2560-2667 (**2018**) E-ISSN: 2321-9637, 2560.
- M. Maria Albert Denison, D. Kanagavel and P. Subramaniam, "Synthesis, Spectral Characterization and Antimicrobial Properties of Binuclear Bis- (Carboxyamides) with Oxovanadium(IV) Coordination Compounds", Inter. J. Sci. Res. Rev. 7, 695-703 (2018). ISSN NO: 2279-543.
- 3. **K. Jacinth Mispa**, K. Anusiya, **P. Subramaniam** and R. Murugesan, "Development and Physico-Chemical Characterization of Conducting Polymeric Zirconium Based Advanced Nanocomposite Ion-Exchangers for Environmental Remediation, **Nano Hybrids and Composites**, 20, 121-148 (2018), ISSN: 2297-3400.

- 4. V. Sathish, **A. Ramdass**, M. Velayudham, Kuang-Lieh Lu, P. Thanasekaran and S. Rajagopal, "Development of luminescent sensors based on transition metal complexes for the detection of nitroexplosives," Dalton Transactions, 46, 16738-16768 (2017).
- 5. P. Balakumar, S. Balakumar, **P. Subramaniam** and D. Sweetlin Rajula Rubavathi, "Kinetic Study on the Oxidation of Phenyl Vinyl Sulfide with Iron(III)-Polypyridyl Complexes in the Presence of Anionic Micelle", **Int. J. Chem Tech Res.**, 11, 262-264 (2018), ISSN: 0974-4290.
- 6. **A. Ramdass**, V. Sathish and P. Thanasekaran, "Utilization of Heavy Metal Complexes as Phosphorogenic Sensors for the Detection of Amino Acids, (A Review)", Oriental Journal of Chemistry, 34, 01-23 (2018) ISSN: 0970-020 X.
- 7. S. Densil, C. -H. Chang, C. -L. Chen, A. Mathavan, A. Ramdass, V. Sathish, P. Thanasekaran, W.-S. Li and S. Rajagopal, "Aggregation-induced emission enhancement of anthracene-derived Schiff base compounds and their application as a sensor for bovine serum albumin and optical cell imaging, The Journal of Biological and Chemical Luminescence, Feb 2018.
- 8. **A. Ramdass**, S. Veerasamy, M. Velayudham and P. Thanasekaran and S. Rajagopal "Phosphorescence 'Turn-On' Sensing of Anions by Rhenium(I) Schiff-Base Complexes" Chemistry Select, 3 (8), 2277–2285 (2018).
- 9. V. Sathish, E. Babu, M. Velayudham, A. Ramdass, P. Thanasekaran and S. Rajagopal, "Recent developments on optical and electrochemical sensing of copper(II) ion based on transition metal complexes," Coordination Chemistry Reviews, 343, 278-307 (2017).
- 10. **P. Subramaniam** and C. Shanmugasundari, "Oxidative decarboxylation Reaction between Phenylsulfinylaceticacids and [Fe<sup>III</sup>(salen)CI] Complex in TX-100 Medium", **J. Chem & Cheml. Sci.**, 7, 486-494 (**2017**), ISSN 2229-760x (Print) ISSN 2319-7625(Online).
- 11. M. Murugan, M. Jansirani, **P Subramaniam** and E Subramanian, "Arsenic removal using silver-impregnated *Prosopis spicigera* L. wood (PSLW) activated carbon: batch and column studies", **J. Appl. Sci. Environ. Manage**., 21, 1307-1312 (2017), ISSN 1119-8362.
- 12. S. Shobana, **P. Subramaniam**, J. Dharmaraja, S. Arvind Narayan and L. Mitu, "Stability studies on solution equilibria of Zn(II) pyrimidine nucleus bases", **Bul.** Chem. Comm., 49, 347-353 (2017).
- 13. S. Selvakumari, M. Chandran, S. Premlatha, G. N. K. Ramesh Bapu and **P. Subramaniam**, "Effect of additives on electrodeposition of zinc and zinc-cobalt alloy in non-cyanide alkaline bath," **J. Res. in Sci.**, 3, 45-50 (2017).
- 14. S. Selvakumari, M. Chandran, S. Premlatha, G. N. K. Ramesh Babu and **P. Subramaniam**, "Effect of additives on morphology texture and corrosion resistance of

electrodeposited zinc and zinc-cobalt alloy," Int. J. Eng. Res. Devel., 13, 21-31 (2017).

#### 2016-17

- 1. **P. Subramaniam**, R. Jeevi Esther Rathinakumari and J. Janet Sylvia Jaba Rose, "Importance of ground state stabilization in the oxovanadium(IV)-salophen mediated reactions of phenylsulfinylacetic acids by hydrogen peroxide-Nonlinear Hammett correlation," **Polyhedron**, 117, 496-503 (**2016**).
- 2. **P. Subramaniam**, **S. Anbarasan**, S. Sugirtha devi and A. Ramdass, "Modulation of catalytic activity by ligand oxides in the sulfoxidation of phenylmercaptoacetic acids by oxo(salen)chromium(V) complexes", **Polyhedron**, 119, 14-22 (**2016**).
- 3. P. Muhambihai, V. Naveen Kumar, V. Rama and **P. Subramaniam**, "Photocatalytic degradation of direct red 80 using ZnO and its Nanocomposites with calcinated black soil", National seminar on Recent advances in Bioinorganic and Medical Chemistry, page-39.
- 4. Ion-exchange behavior of new and novel zirconium(IV)-based. composite cation-exchangers, K. Jacinth Mispa, R. Muthulakshmi, C. Prathees Kumar, P. Subramaniam and R. Murugesan, Polymer-Plastics Technology and Engineering, 56, 55-70 (2017).

- 1. **P. Subramaniam**, J. Janet Sylvia Jaba Rose and R. Jeevi Esther Rathinakumari, "A paradigm shift in rate determining step from single electron transfer between phenylsulfinylacetic acids and iron(III) polypyridyl complexes to nucleophilic attack of water to the produced sulfoxide radical cation: a non-linear Hammett," **J. Phy. Org. Chem.**, 29, 496-504 (**2016**).
- 2. **P. Subramaniam**, S. Sugirtha devi and S. Anbarasan, "Electrophilic and nucleophilic pathways in ligand oxide mediated reactions of phenylsulfinylacetic acids with oxo(salen)chromium(V) complexes," Polyhedron, 115, 164-173 (2016).
- 3. S. Shobana, **P. Subramaniam**, J. Dharmaraja and S. Arvindnarayan, "Stability and Structural Studies on Ni(II) -5 –Fluorouracil Mixed Ligand Complex System", , **J. Solution Chem.**, 45, 334-358 (**2016**) ISSN: 1572-8927, Impact factor: 0.92.
- 4. A. Rajeswari, **A. Ramdass,** P. Muthu Mareeswaran, S. Rajagopal, "Electron Transfer Studies of Ruthenium (II) Complexes with Biologically Important Phenolic Acids and Tyrosine", J Fluoresc. 26, 531-543 (2016).
- 5. E. Babu, **A. Ramdass**, P. Muthu Mareeswaran, P. Ramesh, S. Rajagopal, "Label free luminescence strategy for sensitive detection of ATP using aptamer-Ru (II) Complexes", Journal of Luminescence, 175, 267-273 (2016), Impact factor: 2.74.

- 6. P. Subramaniam and N. Thamil Selvi, "Interaction of Pyridine -2,6-dicarboxylic Acid with Cr(VI) in the Oxidative Decarboxylation of Phenylsulfinyl Acetic Acid and Linear Free Energy Relationship", **Amer. Chem. Sci. J.**, 6, 105-114 (**2015**).
- 7. Pushpa R Gopalan, **P. Subramaniam** and A.G. Annaselvi, "Spectroscopic Study of Bifenox Complexation with α-, β- and γ- Cyclodextrin in Solution and Solid State", **Amer. Chem. Sci. J.**, 6, 115-125 (**2015**) Impact factor: 0.043.
- 8. P. Balakumar, S. Balakumar and **P. Subramaniam**, "Kinetic Study on the Oxidation of Phenyl Vinyl Sulfide with Iron (III)- Polypyridyl Complexes in the Presence of Non-Ionic Micelle", Chem. Tech Res., 8, 603-606 (2015).
- 9. **P. Subramaniam** and N. Thamil Selvi, "Dynamics of cetylammonium bromide-mediated reaction of phenylsulfinylacetic acid with Cr(VI): Treatment of pseudo-phase models", J. Serb. Chem. Soc., 80, 1019-1034 (2015).
- 10. **P. Subramaniam** and N. Thamil Selvi, "Picolinic Acid Promoted Oxidative Decarboxylation of phenylsulfinylacetic Acid By Cr(VI)", Bull. Chem. Soc. Ethiop., 30, 137-146 (**2016**) ISSN 1011-3924.
- 11. S. Shobana, **P. Subramaniam**, J. Dharmaraja and S. Arvind Narayan, "Structural, morphological investigations of some transition metal -5- Fluorouracil –amino acid mixed ligand complexes", Inorganica Chemica Acta, 435, 244-261 (**2015**) Impact factor: 2.002.
- 12. A. Rajeswari, **A. Ramdass,** P. Muthu Mareeswaran, S. Rajagopal, "Electron transfer reactions of ruthenium (II) complexes with polyphenolic acids in micelles", Journal of Luminescence, 170, 8-16, (2016) Impact factor: 2.74.
- 13. M. Jansi Rani, M. Murugan, **P. Subramaniam** and E. Subramanian, "Study of water soluble dyes adsorption from aqueous solution by *Prosopis spicigera* L. wood (PSLW) carbon", Indian J. Chem. Tech., 23, 22-30 (**2016**) ISSN: 0975-0991, Impact factor: 0.568.

- 1. A. Affrose, P. Suresh, **I. Abulkalam Azath,** and K. Pitchumani, "Palladium nanoparticles embedded on thiourea-modified chitosan: a green and sustainable heterogeneous catalyst for the Suzuki reaction in water," RSC Adv., 5, 27533-27539 (2015).
- 2. S. Shobana, **P. Subramaniam**, L. Mitu, J. Dharmaraja and S. Arvind Narayan, "Synthesis, structural elucidation, biological, antioxidant and nuclease activities of some 5-Fluorouracil-amino acid mixed ligand complexes", Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 134, 333-344 (2015).
- 3. **P. Subramaniam**, T. Vanitha, T. Kodispathi and C. Shanmuga Sundari, "Role of Iron(III)-salen chloride as oxidizing agent with thiodiglycolic acid: The Effect of Axial Ligands," J. Mex. Chem. Soc., 58, 211-217 (2014).

- 4. **P. Subramaniam** and N. Thamil Selvi, "Micellar and substituent effects on the redox reactions of phenylsulfinylacetic acid and Cr(VI) in SDS Medium," Inter. J. Adv. Sci. Tech. Res., 4, 418-427 (2014).
- 5. M. Jansi Rani, M. Murugan, **P. Subramaniam** and E. Subramanian, "A Study on Water hyacinth *Eichhorina crassipes*as oil sorbent", J. Appl. Nat. Sci., 6, 134-138, (2014).
- 6. M. Murugan, M. Jansi Rani, **P. Subramaniam** and E. Subramanian, "Fluoride Removal from Aqueous Solution Using Batch, Column and Home Water Treatment method by Low Cost adsorbent: *Prosopis spicigera* L. Wood (PSLW) Carbon", Indian J. Envir. Prot., 34, 207-216 (2014).
- 7. S. Deepalakshmi, A. Sivalingam, T. Kannadasan, **P. Subramaniam**, "Spectroscopic investigation on kinetics, thermodynamics and mechanism for electron transfer reaction of iron (III) complex with sulphur centered radical in stimulated biological system", Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 124, 315-321 (2014).
- 8. S. Shobana, **P. Subramaniam** and S. Arvind Narayan, "Synthesis and Structural Elucidation of Cu(II)-Pyrimidine-Amino acid Mixed Ligand Complex: Spectral, Morphological, Thermo and Electrochemical Studies", J. Emerging Tech. Mech. Sci. Eng. 5, 201-205 (2014).
- 9. **P. Subramaniam**, S. Sugirtha Devi and **S. Anbarasan**, "Proximal effect of the nitrogen bases in the oxidative decarboxylation of phenylsulfinylacetic acids by oxo (salen) chromium (V) complexes", J. Mol. Catalysis A: Chemical, 390, 159-168 (2014).
- 10. **K. Jacinth Mispa, P. Subramaniam** and R. Murugesan, "Studies on Polyaniline/Silver Molybdate Nanocomposites", International Journal of Nanoscience, 1,1 (2014).
- 11. A. Affrose, **I. Abulkalam Azath**, A. Dhakshinamoorthy, K. Pitchumani, "Oxidative hydroxylation of arylboronic acids to phenols catalyzed by copper nanoparticles ellagic acid composite", J. Mol. Cat. A: Chemical, 395, 500-515 (2014).
- 12. P. Kaleeswaran, **I. Abulkalam Azath,** V. Tharmaraj, and K. Pitchumani, "A Ratiometric Tetrazolyl pyridine-Based "*Turn-On*" Fluorescent Chemosensor for Zinc(II) Ion in Aqueous Media", Chem Plus Chem, 79, 1361-1366 (2014).

# **Department of Chemistry (PG)**

#### 2018-19

**1. N. Kohila, P. Subramaniam,** K. Sathyaseelan, "Preparation, characterization and ion-exchange properties of an organic inorganic composite cation exchanger: Polyaniline-Bi(III) iodovanadate", International Journal of Chemical and Pharmaceutical Sciences, (Accepted) April 2019, (Impact Factor- 0.781)

- 2. A. Antony Muthu Prabhu, Madi Fatiha, Nouar Leila, T. Anantha raj, Inmaculada Navarro-González, Maria Jesús Periago, Maria Josefa Yáñez-Gascón, Horacio Pérez-Sánchez, "Investigation of 3D contour map and intermolecular interaction of dopamine with β-cyclodextrin and 2-hydroxypropyl β-cyclodextrin," Journal of Solution Chemistry, 47, 409-429 (2018) Impact factor: 1.039, ISSN: 0095 9782.
- 3. **A. Antony Muthu Prabhu**, Madi Fatiha, B. Sivaraman, Maria Josefa Yáñez-Gascón, Horacio Pérez-Sánchez, "Effect of natural and modified cyclodextrins on the excited state proton transfer of 7-hydroxy-4-methylcoumarin," Journal of Molecular Liquids, 268, 911–924 (**2018**). **Impact factor: 4.561, ISSN: 0167 7322.**
- 4. **R. Rajkumar** and C. Vedhi, "A study of corrosion protection efficiency of Silica nanoparticles acrylic coating on mild steel electrode", Vacuum, 161, 1–4 (2019). (Impact Factor: 2.067)
- 5. **R. Rajkumar** and C. Vedhi, "Green Synthesis of Silica nanoparticles from Rice Husk and its characterization", National Conference on Energy Materials–2018 (NCEM-2018), 170-171 (2018). ISBN: 978-93-81402-55-9.
- 6. **R. Rajkumar** and C. Vedhi, "Synthesis and Characterization of Zinc Oxide Nanoparticles by a solution-free mechanochemical reaction", International Journal of Science, Engineering and Management, 3 (4), 686-689 (2018) ISSN: 2456 1304.
- 7. **P. Muhambihai,** "A study on the degradation of Aniline Blue using ZnO based nanocomposites with calcinated black soil," National Conference on Energy materials-2018, ISBN: 978-93-81402-55-9, June 2018.
- 8. **P. Muhambihai,** "Calcination of Red soil and Black soil used for the degradation of Aniline Blue dye," Journal of Scientific Research and Reviews, ISSN: 2279-0543, January March 2019.
- 9. **P. Muhambihai,** "Catalytic degradation of Organic dye using ZnO nanoparticles and its nanocomposites with Calcinated black soil," International Journal of Scientific Research and Review, ISSN: 2279-543X, 2019.
- 10. **R. Rajkumar** and C. Vedhi, "Preparation of poly (*o*-toluidine)/SiO<sub>2</sub>/Acrylic Nanocomposites coating and Evaluation of its corrosion Resistance on Mild steel", International conference on Advanced Materials and their Applications, 27<sup>th</sup> December 2018.
- 11. **P. Muhambihai**, "Preparation of calcinated red soil and it composites with NiO based nano materials its application for the photodegradation of textile dyes", International conference on emerging trends in Mathematical Physical and chemical science(ETMPC 2019), 22 February 2019.

- 12. **A. Antony Muthu prabhu**, "Theoretical study on inclusion complexation of azo and hydrazo tautomers of sudhan II with  $^{\beta}$ -cyclodextrin", ETBPC, pp -04, 2019.
- 13. G. Annalakshmi and **A. Antony Muthu Prabhu**, "Absorption spectral and theoretical investigation of 4- methoxybenzoic acid with <sup>β</sup>-cyclodextrin and 2- hydroxypropyl <sup>β</sup>-cyclodextrin", Emerging Trends in Material chemistry, 22<sup>nd</sup> Jan 2019.
- 14. G. Vijila Gnanaselvi and **A. Antony Muthu Prabhu**, "Conductometric studies of pure and mixed sodium dodecylbenzene sulfate and alizarin red S", Emerging Trends in Material chemistry, 22<sup>nd</sup> Jan 2019.
- 15. **A. Antony Muthu Prabhu**, G. Sri Renganayaki and P. Rushel, "Mixed Micellization between methyl orange and anionic surfactant sodium dodecylbenzene sulfate at different temperature", Emerging Trends in Material chemistry, 22<sup>nd</sup> Jan 2019.
- 16. K. Sathiyaseelan and **A. Antony Muthu Prabhu**, "Supramolecular interaction of calyx [4]-resorcinarene and phenylalanine-spectral and theoretical studies", Emerging Trends in Material chemistry, 22<sup>nd</sup> Jan 2019.
- 17. V. Suganya and **A. Antony Muthu Prabhu**, "Interaction of ponceau S Sodium salt and sodium dodecylbenzene sulfate by conductometric method", Emerging Trends in Material chemistry, 22<sup>nd</sup> Jan 2019.
- 18. **A. Antony Muthu Prabhu**, M. Valikathaperumal, M. A. J. Thowfeek and S. Sudalaivadivoo, "Inclusion complexation of cofotaxime sodium salt with  $^{\beta}$ -cyclodextrin and 2-hydroxypropyl  $^{\beta}$ -cyclodextrin", International Conference entitled Recent Advanced in Materials and Environmental Remediation (RAMEER 2018).
- 19. **R. Rajkumar** and C. Vedhi, "Synthesis and Characterization of Zinc Oxide Nanoparticles by a solution–free Mechanochemical Reaction", International Journal of Science, Engineering and Management, Volume 3, Issue 4, April 2018. Page 686.
- 20. **R. Rajkumar** and C. Vedhi, "A Study of Corrosion Protection efficiency of silica nanoparticles acrylic coated on mild steel electrode", Journal Elsevier, Vacuum 161 (2019)1-4.
- 21. **A. Antony Muthu Prabhu**, Madi Fatiha, B. Sivaraman, Maria Josefa Yanez-Gascon, Horacio Perez-Sanchez, "Effect of natural and modified cyclodextrins on the excited state proton transfer of 7-hydroxy-4-methylcoumarin", Journal of Molecular Liquids, Elsevier, page 911-924.

1. **N. Kohila,** "Synthesis and ion exchange characteristics of polyaniline–Cerium(IV) iodomolybdate, A new cation exchanger", Frontier Areas in Chemical Sciences, June 2017, ISBN: 978-93-81723-69-2.

- 2. **N. Kohila,** "Catalytic activity of polyaniline doped zirconium tungstate ion exchanger in MB dye degradation", Recent Developments in the Applications of Transition Metal Complexes in Bioinorganic and Medicinal Chemistry, July 2017, ISBN: 978-93-81723-70-8.
- 3. **N. Kohila,** "Studies on synthesis and characterization of reduced graphite oxide nanocomposites and their photocatalytic activity in textile dye degradation", Recent Developments in the Applications of Transition Metal Complexes in Bioinorganic and Medicinal Chemistry, July 2017, ISBN: 978-93-81723-70-8.
- 4. **A. Antony Muthu Prabhu**, "Computational study on the encapsulation of *o*-phenylenediamine, *m*-phenylenediamine and *p*-phenylenediamine into the host cucurbit[7]uril," Journal of Indian Chemical Society, 94, 279-287 (**2017**). **Impact factor: 0.11, ISSN: 0019 4522.**
- 5. **P. Muhambihai,** "Sunlight aided Photocatalytic Degradation of Aniline Blue dye using CRS: a noval route for dye degradation," Frontier Areas in chemical Sciences, ISBN: 978-93-81723-69-2, June 22, 2017.
- 6. **R. Rajkumar,** E. Nimrod Vijay and M. Santhana Kumar, "Comparative Adsorption Studies for the removal of heavy metal ions on Polyindole and Polyindole/SiO<sub>2</sub> nanocomposites", A Treatise on Recent Advances in Bioinorganic and Medicinal Chemistry February (2017) 151-157. ISBN: 978-93-81723-63-0.

- 1. **N. Kohila,** "Bentonite nanocomposites as low cost material for adsorption of toxic Cr(III) & Pb(II) ions", Recent Advances in Bio-inorganic and Medicinal Chemistry, February 2017. ISBN: 978-93-81723-63-0.
- 2. **N. Kohila,** "Photocatalytic activity of RGO/ metal oxide nanocomposites", Recent Advances in Bio-inorganic and Medicinal Chemistry, February 2017, ISBN: 978-93-81723-63-0.
- 3. **N. Kohila,** "Application of white silica sand coated polyaniline composite as a low-cost adsorbent in dye degradation", Recent Advances in Bio-inorganic and Medicinal Chemistry, February 2017, ISBN: 978-93-81723-63-0.
- 4. **P. Muhambihai,** "Photocatalytic Degradation of direct red 80 using ZnO and its nanocomposites with Calcinated Black Soil," A treatise on Recent advances in Bioinorganic and Medicinal chemistry, ISBN: 978-93-81723-63-0, February 15, 2017.
- 5. **R. Rajkumar**, E. Nimrod Vijay and M. Santhana Kumar, "Comparative Adsorption studies for the removal of heavy metal ions on Polyindole and Polyindole/SiO<sub>2</sub>

- Nanocomposites", National seminar on Recent advances in Bioinorganic and Medical Chemistry, ISBN: 978-93-81723-63-0, page-151.
- P. K. Ganesan, R. Rajkumar, M. Kasthuri, A. Angeline Divya, K. Manokari, M. Mariammal and K. Abishek, "Photocatalytic degradation of Textile dyes from waste water using nanocomposites under Solar and UV light source", New Advances in Chemistry and Materials (ICNCM -16), January (2016) 156-164. ISBN: 978-93-5258-236-5.
- 7. **R. Rajkumar,** P. Nishanthini, V. Ashok and T. Nanthini Devi, "Investigation on Corrosion and Electrical Conductivity of Silver nanoparticles embedded in Poly(otoluidine) Nanocomposites", New Advances in Chemistry and Materials (ICNCM -16), January (2016) 187-195.. ISBN: 978-93-5258-236-5.

- 1. **R. Rajkumar,** T. M. Shiji, D. Suba Kohila and M. Petchimuthu, "Anticorrosive properties of Poly(aniline)/MgO nanocomposite coated mild steel", A Treatise on Emerging Trends in Bio-inorganic Chemistry, January (2015), 109-117. ISBN: 978-93-81723-31-9.
- **2. R. Rajkumar,** U. Venisha Banumathi, D. Vinslin and L. Suyambu Durai, "Synthesis, Characterization and dielectric properties of CdS doped with polypyrrole nanocomposite", A Treatise on Emerging Trends in Bio-inorganic Chemistry, January (2015), 118-125. ISBN: 978-93-81723-31-9.
- 3. **N. Kohila,** "Studies on synthesis and characterization of Reduced Graphite Oxide nanocomposites and their photocatalytic activity in textile dye degradation", New Advances in Chemistry and Materials, January 2016, ISBN: 978-93-5258-236-5.
- 4. **N. Kohila,** "Synthesis and physico-chemical characterization of Mg<sup>2+</sup> selective Polyaniline Ce(IV)iodotungstate as composite ion exchanger", New Advances in Chemistry and Materials, January 2016, ISBN: 978-93-5258-236-5.
- 5. **P. Muhambihai, P. K. Ganesan, N. Kohila, R. Rajkumar, K. Sivasaranya**, "New Advances in Chemistry and materials", National Conference on Recent Trends in Materials Science (RTMS-16) 15<sup>th</sup> December, 2016.
- 6. **P. Muhambihai,** "Adsorption and Photocatalytic Degradation of CV and DR 80 Using CuO nanoparticles," A treatise on New Advances in Chemistry and Materials, ISBN: 978-93-5258-2365, January 5, 2016.
- 7. **P. Muhambihai,** "A Study on the synthesis, characterization and Adsorption of ZnO Nanoparticles, Amberlite IR 120 and ZnO/ Amberlite nanocomposites," A treatise on New Advances in Chemistry and Materials, ISBN: 978-93-5258-2365, January 5, 2016.

8. **K. Sivasaranya,** "Enhanced photocatalytic degradation of methyl violet dye pollutant under sunlight and UV light irradiation on metal doped metal oxide nanocomposites," A treatise on New Advances in Chemistry and Materials, ISBN: 978-93-5258-236-5, January 5, 2016.

- 1. **R. Rajkumar,** I. Maria Arul, B. Sangeetha, K. P. Padma Malini and A. Ragavan Kebin, "Preparation and Characterization of Polypyrrole/CaCO<sub>3</sub> composite and its application as anticorrosive coating on mild steel", The International Journal of Science and Technology, Vol. 2 Issue 10 October 2014, 79-83. ISSN: 2321-919X.
- 2. P. K. Ganesan and **R. Rajkumar**, Synthesis, Characterization and Anticorrosion Efficiency of Novel Polythiophene and its nanocomposites on mild steel using Epoxy resin by Electrochemical studies, The International Journal of Science and Technology, Vol. 2 Issue 10 October 2014, 122-128. ISSN: 2321-919X.
- 3. **R. Rajkumar** and P. K. Ganesan, "Synthesis and Characterization of Polypyrrole/Metal oxide nanocomposites and evaluation of their corrosion performance by electrochemical studies on mild steel in epoxy coating", A Treatise on Modern Trends in Chemical Sciences, July (2014), 104-110. ISBN: 978-93-81723-25-8.
- 4. **N. Kohila,** "Synthesis, physico-chemical characterization and ion exchange studies of a new hybrid 'organic-inorganic' nanocomposite cation exchanger: poly-o-toluidine Bi(III) phosphotungstate", A Treatise on Modern Trends in Chemical Sciences, July, 2014, ISBN: 978-93-81723-25-8.
- 5. **N. Kohila** and A. Sivaraman "Synthesis and characterization of nano composite polyaniline Ce(IV) tungstomolybdate and its application as cation exchanger", International Journal of Science and Technology, Vol.2, Issue 10, October 2014, pp. 56-59, ISSN Number 2321-919X.
- 6. **N. Kohila,** "Ion-exchange characteristics of newly synthesised cerium(IV) iodooxalate and its catalytic activity in dye removal", Emerging Trends in Bio-inorganic Chemistry, January 2015, ISBN:978-93-81723-31-9.
- 7. **P. Muhambihai,** "Synthesis and Characterisation of maghemite nanoparticles and maghemite/ Amberlite nanocomposites and their application for the removal of heavy metal ions from waste Water," A Treatise on Modern Trends in Chemical Sciences, ISBN: 978-93-81723-25-8, July-2014.

- 8. **P. Muhambihai,** "Synthesis and Characterization of DETA-MMT nanocomposites and its applications for the removal of congo red," International Journal of Science and Technology, ISSN: 2321-191X, 27<sup>th</sup> August 2014.
- 9. **P. Muhambihai,** Synthesis and Characterisation of low cost chitosan bio polymer and its nanocomposites and their removal of cationic dyes by adsorption studies, International Journal of Science and Technology, ISSN: 2321-191X, 27<sup>th</sup> August 2014.
- 10. **P. K. Ganesan** and **P. Muhambihai**, "Synthesis and Characterisation of Maghemite Nanoparticles and Maghemite / Amberlite Nanocomposites and Their Application for the Removal of Heavy Metal Ions from Waste Water," A Treatise on Modern Trends in Chemical Sciences, July 2014, ISBN: 978-93-81723-25-8.
- 11. K. Jeya Prasanna Devi and **P. K. Ganesan**, "Photocatalytic Degradation of Various Days Using Medicinal Plants Mediated Silver and Silver Doped Metal Oxide Nanocomposites using Sunlight and UV Light." A Treatise on Modern Trends in Chemical Sciences, July 2014, ISBN: 978-93-81723-25-8.
- 12. **R. Rajkumar** and **P. K. Ganesan**, "Synthesis and Characterization of Polypyrrole/Metal Oxide Nanocomposites and Evaluation of Their Corrosion Performance By Electrochemical Studies on Mild Steel in Epoxy Coating", A Treatise on Modern Trends in Chemical Sciences, July 2014, ISBN: 978-93-81723-25-8.
- 13. N. Kohila, "Synthesis, Physico-Chemical Characterization and Ion Exchange Studies of New Hybrid Organic Inorganic Nanocomposite Cation Exchanger: Poly -O- toluidine Bi (III) phosphotungstate", A Treatise on Modern Trends in Chemical Sciences, July 2014, ISBN: 978-93-81723-25-8.
- 14. K. Jeya Prasanna Devi and **P. K. Ganesan**, "Synthesis and Characterization of Novel Quinoxaline Derivatives Using Metal Oxide Nano Particles as efficient recyclable catalyst Evaluation Quinoxaline as Corrosion inhibitors for Copper in Nitric acid Medium", International Journal of Science and Technology, Aug. 2014.
- 15. **N. Kohila,** "Synthesis and Characterization of Nanocomposite Polyaniline–Ce(IV) Tungstomolybdate: its Application as Cation Exchanger", International Journal of Science and Technology, Aug. 2014.
- 16. **R. Rajkumar**, "Preparation and Characterization of Polypyrrole/CaCO<sub>3</sub> Composites and its Application as Anticorrosive Coating on Mild Steel", International Journal of Science and Technology, Aug. 2014.
- 17. **P. K. Ganesan** and **R. Rajkumar**, "Synthesis, Characterization of Anti-corrosion Efficiency of Novel Polythiophene and its Nanocomposites on Mild Steel Using Epoxy Resign by Electrochemical Studies," International Journal of Science and Technology, Aug. 2014.

- 18. **P. Muhambihai**, "Synthesis and Characterization of DETA-MMT nanocomposites and its Applications for the Removal of Congo Red," International Journal of Science and Technology, Aug. 2014.
- 19. **P. K. Ganesan** and **P. Muhambihai**, "Synthesis and Characterization of low-cost Chitosan Bio Polymer and its Nanocomposites and Their Removal of Cationic Dyes by Adsorption Studies", International Journal of Science and Technology, Aug. 2014.

# **Department of Zoology**

- 1. M. Muthukani, C. **Sundaravadivel**, "Biochemical composition of *Sardinella longiceps* during different seasons at Thoothukudi coastal region," Review of Research, 8 (3), 1-8, 2018.
- 2. **P. Arockia Mary Fernandez**, **D. Vasumathi**, "Pharmaceutical evaluation of *Avicennia marina* (Forssk) vierh," In International Conference on Bio-Commerce *2019* (Eds. G. Lakshmanan, T. Mohanraj and S. Lingathurai) Department of Zoology and Research Centre, Aditanar College of Arts and Science, Tiruchendur, Tamil Nadu, India. ISBN 978-93-5351-473-0. *pp* 49-57, 2019.
- 3. D. Srithivya, K. Banumathi, G. Arunkumar, **P. Arockia Mary Fernandez**, "Extraction of Lipase enzyme by *Aspergillus oryzae* using fishery waste," Indian Journal of Microbiology, 2018.
- 4. P. Arockia Mary Fernandez, **D. Vasumathi**, G. Arunkumar, D. Sinthiya, "Evaluation of Mangrove plant *Avicennia marina* against Tobacco cut worm *Spodoptera litura*," International journal of Natural and Applied sciences, 5(2), ISSN: 2349-4077, 2018.
- 5. **P. Rama Devi,** C. Babu, I. Vasudhevan, S. Felcial and G. Lakshmanan, "Publication and characterization of protease enzyme from sea weed *Gracilariafergusonii*", International Journal of Current Research in Life Science, 7, 2801-2804 (2018).
- 6. K. Shameemrani, S. Nagarajan, V. Selvi and **S. Lingathurai,** "Comparative studies on heavy metal analysis of Kollidam estuary water and fish tissue," International Journal of Basic and Applied Research, 8 (7), 571-587, 2018. ISSN 2249-3352 (P) 2278-0505 (E):
- 7. **S. Lingathurai**, P. Sivadurga devi, S. Nagarajan, K. Shameem Rani and V. Selvi, "Antiangiogenic and Anti-cancer activities of *Acalypha fruticosa* Forssk (Euphorbiaceae). In *Innovative Trends in Life Science* (Eds. S. Abirami, G.Gnanamuthu and M. Sangeetha) PG Department of Microbiology, Kamaraj College, Tuticorin, Tamil Nadu. *pp* 40-50, 2018, ISBN 978-93-86712-44-8.
- 8. S. Nagarajan, B. Shanmugasundari, K. Shameem Rani, S. Lingathurai and V. Selvi, "Biochemical Changes of Ornamental Fish, *Poecilla sphenops* (Valenciennes, 1846)

- with reference to Aluminium sulphate," In *Innovative Trends in Life Science* (Eds. S. Abirami, G. Gnanamuthu and M. Sangeetha) PG Department of Microbiology, Kamaraj College, Tuticorin, Tamil Nadu. *pp* 27-39, 2018, ISBN 978-93-86712-44-8.
- 9. M. Amuthaselvi, C. Balachandar, A. Dayalan, **S. Lingathurai** and S. Ignacimuthu, "A comparision of the effects of cobaloximes on antibacterial and antifungal properties," In *International Conference on Bio-Commerce 2019* (Eds. G. Lakshmanan, T.Mohanraj and S. Lingathurai) Department of Zoology and Research Centre, Aditanar College of Arts and Science, Tiruchendur, Tamil Nadu, India. *pp* 302-311, 2019, ISBN 978-93-5351-473-0.
- 10. G. Bakavathiiappan, S. Baskaran and S. Lingathurai, "Antifeedant and Toxic Properties of *Calotropis procera* (Aiton) W.T Aiton Extract on *Helicoverpa armigera* Hubner," In *International Conference on Bio-Commerce 2019* (Eds. G. Lakshmanan, T.Mohanraj and S. Lingathurai) Department of Zoology and Research Centre, Aditanar College of Arts and Science, Tiruchendur, Tamil Nadu, India. *pp* 312-319, 2019, ISBN 978-93-5351-473-0.
- 11. T. Saranya and **S. Lingathurai**, "Bio-efficacy of *Euphorbia hirta* L (Euphorbiaceae) against Cotton Bollworm, *Helicoverpa armigera* Hub. (Lepidoptera: Noctuidae) in the Laboratory and Green house," In *International Conference on Bio-Commerce 2019* (Eds. G. Lakshmanan, T.Mohanraj and S. Lingathurai) Department of Zoology and Research Centre, Aditanar College of Arts and Science, Tiruchendur, Tamil Nadu, India. *pp* 384 390, 2019, ISBN 978-93-5351-473-0.
- 12. K. Uma maheswari, G. Chandran, S. Rajeshkannan, **S. Lingathurai** and S. Nagarajan, "Diversity of Zooplankton in Thayamangalam Pond Sivagangai District, Tamil Nadu, India," In *International Conference on Bio-Commerce 2019* (Eds. G. Lakshmanan, T. Mohanraj and S. Lingathurai) Department of Zoology and Research Centre, Aditanar College of Arts and Science, Tiruchendur, Tamil Nadu, India. *pp* 398 402, 2019, ISBN 978-93-5351-473-0.
- 13. D. Sarasa, P. C. Sathya Narayanan, Pushpalatha, R. Jalajagandhi, M. Vidhya and S. Lingathurai, "Toxicity and Synergistic study on *Azadirachta indica* A. Juzz. and *Melia azedrach* L. on *Callosobruches maculates* Fabricius," In *International Conference on Bio-Commerce* 2019 (Eds. G. Lakshmanan, T. Mohanraj and S. Lingathurai) Department of Zoology and Research Centre, Aditanar College of Arts and Science, Tiruchendur, Tamil Nadu, India. pp 403 419, 2019, ISBN 978-93-5351-473-0.

- 14. D. Sarasa, P. C. Sathya Narayanan, Pushpalatha, R. Jalajagandhi, M. Vidhya and S. Lingathurai, "Biological activities of Extracts from *Azadirachta indica* A. Juss and *Melia azedrach* Linn. On *Spodoptera litura* Fab (Lepidoptera: Noctuidae)," In *International Conference on Bio-Commerce 2019* (Eds. G. Lakshmanan, T. Mohanraj and S. Lingathurai) Department of Zoology and Research Centre, Aditanar College of Arts and Science, Tiruchendur, Tamil Nadu, India. pp 420 433, 2019, ISBN 978-93-5351-473-0.
- 15. **S. Lingathurai,** P. Sivadurgadevi and P. Hemavathi, "Biodegradiation of Sunthetic pyrethroid- Cyfluthrin by *Enterobacter asburiae* from soil," In *International Conference on Bio-Commerce 2019* (Eds. G. Lakshmanan, T. Mohanraj and S. Lingathurai) Department of Zoology and Research Centre, Aditanar College of Arts and Science, Tiruchendur, Tamil Nadu, India. *pp* 434 443, 2019, ISBN 978-93-5351-473-0.
- 16. **S. Lingathurai,** "Toxic and Feeding deterrence, Nutritional and Developmental physiology of *Piper betle* L. (Piperaceae) treated *Spodoptera litura* Fab. (Lepidoptera: Noctuidae)," In *International Conference on Bio-Commerce 2019* (Eds. G. Lakshmanan, T. Mohanraj and S. Lingathurai) Department of Zoology and Research Centre, Aditanar College of Arts and Science, Tiruchendur, Tamil Nadu, India. *pp* 449 468, 2019, ISBN 978-93-5351-473-0.
- 17. T. Saranya and S. Lingathurai, "Bio-efficacy and Detoxifying enzyme activities of *Euphorbia hirta* L. (Euphorbiaceae) treated Army worm, *Spodpotera litura* Fab. (Lepidoptera: Noctuidae)," In *International Conference on Bio-Commerce 2019* (Eds. G. Lakshmanan, T. Mohanraj and S. Lingathurai) Department of Zoology and Research Centre, Aditanar College of Arts and Science, Tiruchendur, Tamil Nadu, India. *pp* 469 474, 2019, ISBN 978-93-5351-473-0.

- 1. **C. Sundaravadivel**, T. A. Sethuramalingam, "Growth performance of *Macrobrachium idea* Juveniles fed with carbohydrate rich diets," Journal of Advanced Zoology, 38(1), 33-43. ISSN: 0253-7214. IMF: 0.864, 2017.
- 2. **C. Sundaravadivel,** "Growth performance of *Macrobrachium idea* Juveniles fed with diets containing animal protein sources," Scrutiny International Research Journal of Advanced Zoology, Animal Sciences and Nutrition. 4(1), 1-13. ISSN: 2349-4263, 2017.
- 3. P. Arockia Mary Fernandez, **D. Vasumathi**, G. Arunkumar, D. Sinthiya, "Evaluation of Mangrove plant *Avicennia marina* against Tobacco cut worm *Spodoptera litura*," International journal of Natural and Applied sciences, 5(2), ISSN: 2349-4077,2018.

- 1. **F. Esther Isabella Eucharista**, "The Investigation of some Physico-chemical Parameters in Marine onshore and offshore water at Kulasekaranpattinam, Thoothukudi District, India", International Journal of Recent Scientific Research, 9 [6(G)], 27702–27706 (2018).
- 2. **F. Esther Isabella Eucharista,** "Study of physico-chemical total and feacal coliform parameter of water in the Borewell at Tiruchendur", International Journal of Scientific and Research, 6, 2347–3878 (2018).
- 3. **T. Mohanraj**, M. Vinitha and T. Jabarani Rajathi, "Gut Bacterial diversity of marine food fishes of Tiruchendur coast", Proceedings of National conference on Innovative trends in life sciences. 1(1), 21–26 (2018), ISBN: 978-93-86712-44-8.
- 4. I. Jagadis, V. Kripa, K. S. Mohamed, K. P. Said Koya, **T. Mohanraj**, K. K. Saji Kumar, H. Sivanesh and S. Pradeep, "Technology transfer, adoption and performance evaluation of pearl culture technology at selected ecosystems of India," Journal of the Marine Biological Association of India, 60 (1), 40-47, 2018.
- 5. M. Sheeba and **T. Mohanraj**, "Ecology of Tuticorin and Vembar group of Islands, Gulf of Mannar", Proceedings of International Conference on Bio-Commerce, 1 (1): 255-270 (2019) ISBN: 978-93-5351-470-0.
- 6. T. Jebarani Rajathy and **T. Mohanraj**, "Diversity of Marine Finfish Resources of Tiruchendur Coast," Proceedings of International Conference on Bio-Commerce, 1 (1): 93-100 (2019) ISBN: 978-93-5351-470-0.
- 7. S. R. T. Sherly Cross and **T. Mohanraj**, "Analysis of Heavy Metal Concentration of Tuticorin Mangrove Ecosystem," Proceedings of International Conference on Bio-Commerce, 1 (1): 58-65 (2019) ISBN: 978-93-5351-470-0.
- 8. A. Vanmathi and **T. Mohanraj,** "Observation on Captured Marine Fishes of Manapadu Coast," Proceedings of International Conference on Bio-Commerce, 1 (1), 271-277 (2019) ISBN: 978-93-5351-470-0.

- 1. **F. Esther Isabella Eucharista**, "A comparative study on physico-chemical characteristics of marine water onshore and offshore at Kulasekaranpattinam, Thoothukudi District, India". International Journal of Creative Research Thoughts, 6 (2), 76-82 (2018) ISSN: 2320-2882.
- 2. **F. Esther Isabella Eucharista** and M. Karthika, "Distribution of some heavy metals in water bodies and water sediments of the Tamirabarani River at Eral, Tamil Nadu, South India". Elixir Appl. Zoology, 50043–50046 (2018) ISSN:2229-712X.

- 3. T. Selvarathinam, **K. Senthilkumar** and G. Marimuthu, "Ecological challenges of roosting in the leaf nosed bat, *Hipposiderosspeoris*", International Journal of Scientific Research and Modern Education, 2(2), 52-55 (2017) ISSN (Online): 2455 5630.
- 4. **F. Esther Isabella Eucharista** and M. Karthika, "Heavy Metal Pollution in The Water Bodies and Water Sediments of the Tamirabarani River at Eral, Tamil Nadu, South India", International Journal of Recent Scientific Research, 9 [2(H)], 24279-24283 (2018).
- 5. I. Vasudhevan, **P. Rama Devi** and K. Asokan, "Effects of Optimum Vitamin E with Different levels of Vitamin C on Growth, Reproduction and Immune Response in Blue Gourami (*Trichogastertrichopterus*)", Emer. Life Sci. Res., 3(1), 57-62 (2017).
- 6. S. R. T. Sherly Cross, T. Jebarani Rajathy and **T. Mohanraj**, "Studies on plankton diversity of Tuticorin mangrove ecosystem", Shanlax International Journal of Arts, Science and Humanities. 5 (4): 292-296 (2018) ISSN: 2321-788X.
- 7. M. Sheeba and **T. Mohanraj**, "Distribution of Benthic Foraminifera Around Six Coral Islands off Tuticorin, Bay of Bengal", World Journal of Zoology, 12 (2), 22-29 (2017) ISSN 1817-3098.
- 8. **P. Ramadevi**, I. Vasudhevan, C. Babu, M. Muthuganga, and **C. P. Balakrishnan**, "Phytochemical analysis and bioactive compound separation of seaweed *Hypneavalentrae*", International Journal of Research in Advanced technology, 6(11), 3192-3196 (2018).

- 1. A. Rathinakumar, Mauricio Cantor, **K. Senthilkumar**, P. Vimal, P. Kaliraj and G. Marimuthu, "Social grooming among Indian short-nosed fruit bats," *Behaviour* **154** (1), 37 63 (2017) ISSN: 0005-7959; E-ISSN: 1568-539X.
- 2. **F. Esther Isabella Eucharista**, "Assessment of water quality of bore hole water in Tiruchendur," International Journal of Research Granthaalayah, 4 (12), 124-131(2016) ISSN-2350-0530(O), ISSN 2394-3629(P). Impact Factor: 4.321.
- 3. **F. Esther Isabella Eucharista,** S. Jeyakumar and S. Devi Priya, "Biodiversity of aquatic insects and physico-chemical parameters of Junai Temple pond Melaputhukudi, Thoothukudi District, Tamil Nadu, India". Research Ambition: An International Multidisciplinary e-Journal Nov (2016) ISSN No:2456-0146 1(3).
- 4. **F. Esther Isabella Eucharista**, X. Jenitta and A. Vanmathi, "A physico-chemical characteristics study of Avudaiyar pond in Tiruchendur". Research Inspiration: An International Multidisciplinary e-Journal June (2016) ISSN No: 2455-443X 1(3).

- 5. **P. Ramadevi** and C. Babu, "Pigment production of pathogenic bacteria using *Randia longispina*" International Journal of Research in Applied Sciences & Engineering Technology, 9(9), 40-42 (2016).
- 6. I. Vasudhevan, **P. Ramadevi** and K. Kumarasamy, "Effect of Lactobascillus on growth, feeding parameters and survival of koi carp, *Cyprinuscarpio*," International Journal of Research Fish and Aquaculture, 7(1), 37-41 (2017).

- 1. T. Jebarani Rajathy, Swizel Vienna Goes, **T. Mohanraj** and Subadhra Devi Gadi, "Diversity and abundance of microzooplankton of coastal waters of South Goa" European Journal of Biological Sciences, 8 (4) 130–135, 2016.
- 2. S. R. T. Sherly Cross, **T. Mohanraj** and S. Shanmugavel, "Diversity and distribution of shore birds in Tuticorin coastal area of Gulf of Mannar," Advances in Applied Science Research, 6 (4), 45–49, 2016.
- 3. G. Marimuthu, A. Rathinakumar, **K. Senthilkumar** and V. Elangovan, "Bats: Diversity, Behaviour and Conservation" in *Faunal Diversity in India* (Eds. R.C. Sobti, Kamal Jaiswal and Suman Mishra) Chapter 22. Narendra Publishing House, Delhi. Pages 445-478, ISBN-13: 9789384337223, 2015.

### 2014-15

1. **P. Kombiah**, "Chemical Constituents of essential oils of *Tephrosia purpurea* and *Ipomo cacarnea* and their repellent activity against *Odoiporus longicoollis*," J. Serb. Chem. Soc., 79, 1-13 (2014).

# **Department of Botany**

#### 2017-18

- 1. P. Jenifer, C. P. Balakrishnan, S. Chidambaram Pillai, "Identification of Antioxidant compound cholest-5-en-ol from choloroform extract of *Gracilaria folifera* using GC-MS analysis", World Journal of pharmaceutical research, ISSN 2277-7105, Vol 6, Issue 8,1782-1792.
- **2.** P. Jenifer, **C. P. Balakrishnan**, S. Chidambaram Pillai "Identification of antioxidant compound Cholest-5-en-3ol from chloroform extract of Gracilaria foliifera using GC-MS analysis", World J. Pharm. Research. 6, 1782-1792, 2017.

- 1. P. Jenifer, C. P. Balakrishnan, S. Chidambaram Pillai, "*In-Vitro* Antioxidant Activity of Marine Red Algae *Gracilaria foliifera*", ISSN Print: 2231-5705, ISSN Online: 2231-5713, Volume 7, Issue-2, 2017.
- 2. P. Jenifer, C. P. Balakrishnan, "Phytoconstituents screening and *invitro* evaluation of total antioxidant activity of marine red algae *Gracilaria fergusonii J. Agardh.*" Int. J. Res. Pharm. Phytopharmcol. Research, 6 (1), 9 13, 2016.
- **3.** P. Jenifer, **C. P. Balakrishnan**, S. Chidambaram Pillai, "*Invitro* antioxidant activity of marine red algae *Gracilaria foliifer*", Asian J. Pharmacy and technology, 7 (2): 779 789, 2017.

- 1. P. Jenifer, C. P. Balakrishnan, "Free radicals scavenging activity of different extracts of *Gracilaria fergusonii*," Asian J. Res. Biol. and Pharm. Science, 3 (4), 162–168, 2015.
- 2. P. Jenifer, C. P. Balakrishnan, "Invitro antioxidant evaluation of Gracilaria fergusonii using various solvent extracts. World J. Pharm. Research, 5 (3), 779–789, 2016.

- 1. **C. P. Balakrishnan**, "Effect of Different extraction processes on yield and quality of agar in *Gracilaria edulis* and *Gracilariaverrucosa*", International Journal of Seaweed Research and Utilization, Vol. 36 (1&2), 59-65, 2014.
- 2. **C. P. Balakrishnan**, K. Venkataraman, "Effect of different extraction processes on yield and quality of agar in *Gracilaria edulis* and *Gracilaria verrucosa*," Seaweed Res. Utiln., 36 (1&2), 59-65, 2014.
- 3. **C. P. Balakrishnan**, P. Jenifer, "Morpho-anatomical and phytochemical studies of *Commenlina benghalensis* L. of *Commenliaceae*," International Journal of Phytopharmacology, 6(3), 143-151, 2015.
- 4. P. Jenifer, **C. P. Balakrishnan**, "Anti-pesticidal and anti-nematicidal compounds from *Gracilaria corticata L. Agardh* under GC-MS analysis", Seaweed Res. Utiln.,37 (1&2): 81-84, 2015.

# **Department of Computer Science**

#### 2018-19

- 1. M. Jeyanthi, C. Velayutham, "Machine Learning Verdict of EEGSignals in Brain Computer Interface", International Journal of Scientific Research in Computer Science, Engineering and Information Technology, Volume 3, Issue 8, ISSN No. 2456 3307, 2018.
- 2. R. Praba Manieswari, **D. S. Mahendran,** T. C. Rajakumar, "A parallel approach to modified RP set" JETIR, Volume 6, Issue 2, ISSN NO. 2349-5162, February 2019.
- 3. S. Sweetlin Susilabai, **D. S. Mahendran**, S. John Peter, "Interbit exchange and merge (IBEM) pattern of blowfish algorithm", International Journal of Recent Technology and Engineering, ISSN No. 2277-3878, Issue 552, January 2019.
- 4. S. Rajan, **D. S. Mahendran**, S. John Peter, "Analysis on cryptographic algorithms for effective secure implementation of cryptosystem in cloud", International Journal of Engineering Research in Computer Science and Engineering, Volume 5, Issue 4, ISSN No. 2394-2320, April 2018.
- 5. S. Rajan, **D. S. Mahendran**, S. John Peter, "Implementation of modified security paradigm to data for cloud computing", JETIR, Volume 6, Issue 2, ISSN NO. 2349-5162, March 2019.

- 1. R. Prabamanieswari, **D. S. Mahendran,** T. C. Raja Kumar, "NCFP-tree: A Non-Recursive Approach to CFP- tree using Single Conditional Database", International Journal for Research in Applied Science and Engineering, Technology (IJRASET), ISSN:2321-9653;IC Value45.98, Volume 5, Issue XI, November 2017.
- S. Rajan, D. S. Mahendran, S. John Peter, "A Novel Model for Key Management on Cloud Research Article/Survey Paper/Case Study", International Journal of Scientific Research Engineering & Technology (IJSRET), ISSN 2278 – 0882, Volume 6, Issue 9, September 2017.
- 3. S.Rajan, **D. S. Mahendran**, S. John Peter, "Scalable Map Reduce Model for Aggregating the Data in the Cloud", International Journal of Engineering Research in Computer Science and Engineering, ISSN(Online) 2394-2320, Volume 4, December 2017.

- 4. R. Prabamanieswari, **D. S. Mahendran**, T. C. Raja Kumar, "Comparative Study of FPclose and NCFPGEN Algorithms", International Journal of Computer Sciences and Engineering, E-ISSN: 2347-2693, Volume-6, Issue -3, 143.
- 5. S. Rajan, **D. S. Mahendran**, S. John Peter, "Analysis on Economic Viability of Location Based Cloud", International Journal of Scientific Research in Science and Technology, Online ISSN: 2395-602X, Print ISSN: 2395-6011, Volume 4, 977-981.
- 6. S. N. Sithi Shamila, **D. S. Mahendran**, Mohamed Sathik, "Addressing the Issues of Text Analytics", International Journal of Engineering Research in Computer Science and Engineering (IJERCSE) Vol 4, ISSN (Online) 2394-2320, Issue 12, December 2017.
- 7. M. Christy Rama, **D. S. Mahendran,** T. C. Raja Kumar, "Land Cover Classification using Opponent Texture Pattern with Multi-Color Model Histogram", International Journal of Engineering Research in Computer Science and Engineering, ISSN (Online) 2394-2320, volume 4, Issue 12, December 2017.
- 8. R. Sahaya JeyaSutha, **D. S. Mahendran**, S. John Peter, "A Survey on Block Truncation Coding based Content Based Image Retrieval", International Journal of Computer Application (2250-1797), Volume 7- No.6, Nov. 2017.
- 9. S. Sweetlin Susilabai, **D. S. Mahendran,** S. John Peter, "Survey on Different Data Security Cryptographic Algorithms", International Journal of Engineering Research in Computer Science and Engineering, ISSN (online) 2394-2320, Vol 4, Issue 12, December 2017.
- 10. R. Sahaya JeyaSutha, **D. S. Mahendran,** S. John Peter, "An Overview of Content Based Image Retrieval Techniques", International Journal of Advanced Research Trends in Engineering and Technology (IJARTET), ISSN 2394-3777(Print) ISSN 2394-3785(Online)Vol. 4,Special Issue 4, March 2017.

1. **C. Velayutham**, "Non-invasive Electroencephalography Signals Classification using Rough Neural Network", International Journal of Computational Biology and Drug Design, 8(3), 212-225, 2015.

# **Department of Commerce**

#### 2017-18

1. **A. Soundara Rajan**, K. Sudha, "Study of Online Shopping Behaviour and its impact on online Deal Websites", International Journal of Business and Administration Research Review, 2(20), 66-73, 2017.

#### 2014-15

- 1. **S. Sivakumar**, "Quality of Work Life of College Teachers A Study with Reference to Madurai District", Indian Journal of Applied Research, 4 (8), 56-58, 2014.
- **2. V. Gopalakrishnan**, "A Study on Empowerment Developments of-Entrepreneurs in Tirunelveli District", Golden Research Thoughts, 3 (12), 1-7, 2014.

# **Department of Commerce (SF)**

#### 2017-18

- 1. **D. Jeya Raman**, **M. Dhilip Kumar**, "Role of Technology in Entrepreneurial Development Facilitating Innovative Ventures", ISBN No. 9788193382127, page 69.
- 2. **S. Siril Arun**, **M. Ruban Jesu Adaikalam**, "A Study on Retail Marketing and Customer Services of Departmental Stores in Thoothukkudi Town", Journal of Social Science, ISSN: 0975-9999(P) 2349-1655(O), Vol. IX, Issue.36, April-June 2018.

### 2016-17

1. **S. Siril Arun, M. Ruban Jesu Adaikalam**, "Stress Reactions among Bank Employees in Thoothukudi District", Vol – IV, July, Dec – 2016.

# **Department of Business Administration**

- 1. Jubel Mathew, M. Edwin Gnanadhas, **S. Narayana Rajan**, "A Comparative study on work related stress and gender among young men and women with reference to the broad casting industry in Kerala", International Journal of Entrepreneurship and Business Environment Perspectives, ISSN:2279-0918 (print), ISSN:2279- 0926 (Online); Volume:5, Number:3, pp. 2547-2553, July to September,2016.
- 2. Jubel Mathew, M. Edwin Gnanadhas, **S. Narayana Rajan**, "A study on Personality Traits and Motivational aspects of Male Entrepreneurs with Reference to Entrepreneurs in Ernakulam Kerala, Primax International Journal of Marketing, Print ISSN: 2348-0491, 106-109.
- 3. K. Uma Maheswari, **S. Narayana Rajan**, "Attitude of Employees on outsourcing: A Study on Telecom industry in Bangalore City", Multidisciplinary National Conference on Research in Present Scenario, 119, January 27, 2017.
- 4. **T. Selvakumar**, "A Study on Entrepreneurship Attitude among college students in Tiruchendur", Multidisciplinary National Conference on Research in Present Scenario, 120, January 27, 2017.
- 5. R. Banila, **S. Narayana Rajan**, "Entrepreneurial Orientation in the performance of Micro Industries in Thoothukudi District", Shanlax International Journal of Management, ISSN:2321-4643, Vol.5, No.3, January 2018.
- 6. **S. Narayana Rajan**, "Impact of Demographic factors on personality traits of first-generation entrepreneurs environmental", International Journal of Economic and Business Review, ISSN (print):2349-0187, Volume 5, Issue 12, December 2017.
- 7. **S. Narayana Rajan**, G. Rajesh, "The Effectiveness of Adjudication Machineries in Kerala", International Journal of Business and General Management; ISSN (Print):2319-2267; ISSN (Online): 2319-2275, Vol-6, Issue-6, Oct-Nov 2017.
- 8. G. Rajesh, **S. Narayana Rajan**, "An Assessment of service Quality of Organized Super Markets in Kerala", International Journal of Business and General Management", ISSN (Print): 2319-2267; ISSN(Online): 2319-2275, vol-6, Issue; Oct-Nov 2017.
- 9. **S. Narayana Rajan**, "A Study on motivational Aspects of entrepreneurs with References to entrepreneurs in Ernakulam, Kerala", International Journal of Advanced in Management Technology and Engineering Sciences, ISSN No.2249-7455, Volume 7, Issue 8, August 2017.

1. **M. R. Karthikeyan**, "To measure the Health Insurance companies service and Purchase Habits (Special Reference to star Health Insurance Company Ltd., in Madurai City)", PARIPEX – Indian Journal of Research, ISSN No.: 2250-1991, Volume 6, Issue 2, February 2017.

### 2015-16

1. **S. Narayana Rajan**, "Labour Rights and corporate Social Responsibility to Telecom Service industry in Bengaluru City", Roots International Journal of Multidisciplinary researchers, Special Issue on Corporate Social Responsibility and Sustainable Development [Special Issue 7] ISSN 2349 – 8684 134 -138 (2016)

# **Department of Physical Education**

#### 2017-18

- 1. K. Chandrasekar, **D. Jim Reeves Silent Night**, "Comparative Effect of Different Intensity of Physical Fitness Exercises on Muscular strength and anaerobic power of obese school boys", Emperor International Journal of Finance and Management Research, Mayas Publication, ISSN: 2395-5929, 124.
- 2. S. Balasingh, **D. Jim Reeves Silent Night**, "Effect of interval training on selected performance related physical fitness variable among athletes," International Journal of Yogic, Human Movement and sports sciences, 3(2), 183-185, 2018.
- 3. K. Boopathirajan, **D. Jim Reeves Silent Night**, "Effect of drop jump training on biomotor variables among football players", International Journal of Yogic, Human Movement and sports sciences, 3(2), 28-30,2018.
- 4. S. Balasingh, **D. Jim Reeves Silent Night**, "Effect of interval and circuit training on vo2 max of kabaddi players", International Journal of Yogic, Human Movement and sports sciences, 3(2), 186-187, 2018.

- 1. K. Boopathi Rajan, **D. Jim Reeves Silent Night**, "Effect of Drop Jump Training on selected performance Related Fitness Variable among Football Players", International Journal of Physical Education, Yoga and Health Sciences, ISSN 2349-6312, Volume-3, Issue-2, August 2016.
- 2. K. Chandra Sekar, **D. Jim Reeves Silent Night**, "Effect of Different Intensities of Physical fitness Exercises on selected body composition variables among obese school boys", ISSN 2349-6312, Volume 4, Issue-1, February 2017.
- 3. **D. Jim Reeves Silent Night**, "Influence of Circadian Rhythm on selected Physiological variables and swimming performance of school boys," International Journal of Physical Education, Yoga and Health Sciences, ISSN 2349-6312, Volume-3, Issue-2, August 2016.
- 4. K. Chandra Sekar, **D. Jim Reeves Silent Night**, "Comparative Analysis on Body Mass Index (Bmi) among Rural and Urban Based School Children", A Multi-Disciplinary Referred Journal, Volume-10, Special Issue 1, 2017.

5. S. Balasingh, **D. Jim Reeves Silent Night**, "Effect of Aerobic Interval Training on Selected Physical Variables among college Athletes", A Multi-Disciplinary Referred Journal, Volume-10, Special Issue 1, 2017.

- 1. **D. Jim Reeves Silent Night**, "Influence of varied intensity of walking on selected Physical, Physiological and Psychologicalvariables among middle aged men", International Journal of Health, Physical Education and Computer Science in Sports, Volume No. 15, No.1, (2014) pp 464-466 ISSN 2231-3265, Impact Factor 0.624.
- 2. **D. Jim Reeves Silent Night**, "Effect of Visual Practice with and without Skills Training on Heading and Passing of Men Soccer Players", Promotion of Yoga, Health Awareness and Physical Fitness-A Multi-Dimensional Approach Edited Book **D. Jim Reeves Silent Night**, October 2014, ISBN 978-93-84734-02-2
- 3. **D. Jim Reeves Silent Night**, "Effect of Mass Drill Exercise Training on Selected Gross Motor Skills among School Children", Promotion of Yoga, Health Awareness and Physical Fitness-A Multi-Dimensional Approach" Edited Book **D. Jim Reeves Silent Night**, October 2014, ISBN 978-93-84734-02-2.
- 4. D. Jim Reeves Silent Night, "Effect of Mass Drill Exercise Training on Selected Gross Motor Skills among School Children", Promotion of Yoga, Health Awareness and Physical Fitness-A Multi-Dimensional Approach" Edited Book D. Jim Reeves Silent Night, October 2014, ISBN 978-93-84734-02-2
- 5. **D. Jim Reeves Silent Night**, "Influence of Varied Intensity of Walking on Selected Muscular Strength Variable among Middle Aged Men", Promotion of Yoga, Health Awareness and Physical Fitness A Multi-Dimensional Approach.
- 6. **D. Jim Reeves Silent Night**, "Analysis of Psychometric Intelligence of Yoga Practicing Hockey Players", Promotion of Yoga, Health Awareness and Physical Fitness A Multi-Dimensional Approach" Edited Book **D. Jim Reeves Silent Night**, October 2014, ISBN 978-93-84734-02-2.
- 7. D. Jim Reeves Silent Night, "Awareness of Physical Activity and Status of Health and Physical Fitness for Government Aided School Boys", Promotion of Yoga, Health Awareness and Physical Fitness-A Multi-Dimensional Approach" Edited Book D. Jim Reeves Silent Night, October 2014, ISBN 978-93-84734-02-2.