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Scopus link : Scopus - Author search results
Vidwan link if available

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1. Personal Details

Date of Birth & Age	: 03/06/1977
Gender & Marital Status	: Male
Community	: MBC
Nationality	: Indian
Place of Birth	: Dindigul

2. Educational Qualifications

2.1. Academic

Degree/ Examination	Name of the Exam	University/ Institute	Year of Passing	Percentage/ Grade	Main Subject
Under Graduate	BSc	Gandhigram University	1997	First	Chemistry
Post Graduate	MSc	Gandhigram University	1999	First	Chemistry

2.2. Research

Degree	Name of the University	Title of the Thesis	Date of Submission	Date of Award
PhD	Gandhigram University	Synthesis, characterization of achiral and chiral multi-site phase-transfer catalysts and their applications to various organic reactions	29/08/2005	24/4/2006

3. Post-Doctoral / Research Associate / Industrial Experience

Name of the University / Institute / Industry	Period of Work	Nature of Work
Department of Chemical Engineering, Pohang University of Science and Technology	22/08/2007 to 16/10/2010	Research Professor

(POSTECH), Pohang, South Korea.		
Syngene International Pvt Ltd, A Biocon Company, Bangalore, Karnataka	03/10/2005 to 09/08/2007	Associate Scientific Manager

4. Professional Experience

No	Name of the University / Institution	Position Held	From (Date)	To (Date)
1	Department of Inorganic Chemistry, School of Chemistry, Madurai Kamaraj University, Madurai	Associate Professor	18/10/2020	Till Date
2	Department of Inorganic Chemistry, School of Chemistry, Madurai Kamaraj University, Madurai	Assistant Professor	18/10/2010	17.10.2020

5. Teaching

No	Year	Semester	Course Code	Course Title	Hours per Week
1	2022-23	I	CHE2212C CHE2215E	Inorganic Chemistry I Nanoscience and Environmental Chemistry	7
2	2022-23	II	CHE2222C CHE2224C CHE2225E	Inorganic Chemistry II Inorganic Chemistry Practical Elective	11
3	2022-23	III	CHE2133C CHE2135E	Applications of Spectroscopy and Magnetism Elective	6
4	2022-23	IV	CHE2142	Inorganic Chemistry IV	3
5	2022-23	M.Phil (I Sem)	-	Advanced Inorganic Chemistry	3

6. Design/Development of New Curricula and Courses

No	Description	Organization for which it was Developed	Level (PG/UG)
1	M.Sc Chemistry (General Chemistry)	Department of Chemistry, Manonmaniam Sundaranar University	PG
2	M.Sc Chemistry (General Chemistry)	School of Advaced Sciences, Dept. of Chemistry, Vellore Institute of Technology, Vellore	PG

7. Creation of ICT Mediated Teaching-Learning Pedagogy: --

7.1. SWAYAM / MOOCs **---**

No	Description	Organization for which it was Developed	Level (PG/UG)

7.2. E-Contents : Nil

No	Description	Organization for which it was Developed	Level (PG/UG)

7.3. Development of other ICT Mediated Teaching-Learning Pedagogy : Nil

No	Description	Organization for which it was Developed	Level (PG/UG)

8. Research Specialization / Field of Research

- Asymmetric Synthesis
- Chemosensor
- Organic Photovoltaics.
- Supramolecular Chemistry
- Organometallic Chemistry

9. Research Publications

Type	International	National
Papers Published in UGC-CARE Listed Journals	107	---
Papers in Refereed Journals (Not mentioned above)		
Books Published	1	--
Books Edited	--	--
Contributions to Book Chapters	1	
Editor of Conference/Seminar Proceedings	--	
Papers Published in Conference/Seminar Proceedings	4	--
Papers Presented in Conferences/Seminars	42	24
Deposits in CCDC, PDB, etc.	2	

10. Citation Metrics

Cumulative Impact Factor (Recent Annual JCR)	436
Total Citations (Scopus/Web of Science)	1420
h-Index (Scopus/Web of Science)	24
g-Index (Scopus/Web of Science)	--
i10 Index (Scopus/Web of Science)	54

11. Details of Patents : Nil

12. Research Guidance/Supervision

Degree / Programme	Completed	Submitted	Ongoing
PhD (Full-time)	12	1	2
PhD (Part-time)	3	--	1
MPhil Research Project (Full-time)	18		
MPhil Research Project (Part-time)	--	--	--
MSc Projects/Dissertation	32	--	3
MSc Internships/Summer or Winter Projects	2	--	--

13. Funded Research Projects

13.1. Ongoing

No	Title of the Project	Funding Agency	Period / Duration	Total Grants Sanctioned (Rs)
1	Development of Functional Nanomaterials for Green Energy and Environment	RUSA, MHRD	2021-2023	1,67,00000 (One of the PI, Group Project)
2	Synthesis and Studies of D-A-π-A-D Type Weak Donor [Thieno(Indenoindole)] and Strong Acceptors Based Polymers Solar Cell	TANSCHE, Chennai, Tamilnadu	2020-2023	38,16,500

13.2 Completed

No	Title of the Project	Funding Agency	Duration and Month & Year of Completion	Total Grants Received (Rs)	No of Papers out of Project
1	Stimuli-response supramolecular assembly	DST-SERC, Fast Track, New Delhi	2012-2015	24,55,000	13
2	Perpendicularly Aligned Organic Nanotubes for Photonics and Optoelectronics	CSIR-HRDC, New Delhi	2012-2015	22,93,000	9
3	Molecular engineering approach for Dye sensitized solar cells	UGC-Major Research, New Delhi	2012-2015	6,00,000	7
4	Triarylamine and Carbazole-Based Hole Transporting Materials and Their Applications in Efficient Organic Solar Cells	DST-SERB, EMR, New Delhi	2016-2019	40,26,000	14
5	Investigation of New	DST-CERI,	2016-2019	23,36,000	15

	Hole Transporting Materials for Efficient Perovskite Organic-Inorganic Hybrid Solar Cells	New Delhi			
6	Supramolecular Architectures of Azo Derivatives: Properties and Applications	CSIR, HRDC, New Delhi	2017-2020	9,00,000	13

14. Reviewer in Journals

Name of the Journal	Publisher	No of Papers Reviewed
Inorganic Chemistry Communictions	Elsevier	14
Molecular Catalysis A: Chemical	Elsevier	1
Tetrahedron Letters	Elsevier	6
Sensor and Actuators B: Chemical	Elsevier	13
Dyes and Pigments	Elsevier	6
Spectrochimica acta	Elsevier	3
Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	Elsevier	16
Journal of Photochemistry and Photobiology A: Chemistry	Elsevier	9
Analytica Chimica Acta	Elsevier	3
New Journal of Chemistry	Royal Society of Chemistry	7
RSC Advances	Royal Society of Chemistry	4
Organic and Biomolecular Chemistry	Royal Society of Chemistry	3
Chemical Communications	Royal Society of Chemistry	1
Photochemical & Photobiological Sciences	Royal Society of Chemistry	2
Journal of Materials Chemistry A	Royal Society of Chemistry	2
Journal of Fluorescence	Springer	4
Research on Chemical Intermediates	Springer	3
Chemistryselect	Willey Inter Sciences	12
Energy and Fuels	American Chemical Society	6
Organic Letters	American Chemical Society	2
Advanced Energy Materials	American Chemical Society	3
Synlett	Thieme	4
Journal of Physical Chemistry C	American	2

	Chemical Society	

15. Research Collaborations

Name of the Collaborator	Institute	Collaboration Details
Prof. Taiho Park	POSTECH, South Korea	DSSC, device fabrication and analysis
Dr. S. Easwaramoorthi	CLRI, Adyar, Chennai	Ultra-fast process analysis
Dr. R. Easwaramoorthi	ARCI, Hyderabad	Perovskite Solar cell analysis and characterization

16. Countries Visited

Name of the Country	Period	Purpose
South Korea	2007	Research Professor
Japan	2009	International Conference

17. Honours / Awards / Recognitions

Name of the Honours / Awards / Recognition	Awarding Agency	International / National / State / Institute Level
Fellow of Academy Sciences	FAS, Chennai, Tamil nadu	State Level
Brain of Korea Research fellow-2007	POSTECH, South Korea.	International Level
Young scientist fellow (DST-Fast Track)	DST-SERC	National Level
Best research award (Kalvi Valarchi naal, MKU, 2017)	MKU, 2017	Institute Level

18. Conferences / Seminars / Workshops Organized

Level	Conference Title	Date(s)	Place	Role Played	Funding
International	International conference on recent trends in Chemistry and Biosciences-2019 (ICRTCB-2019) May 16-17, 2019	May 16-17, 2019	MKU	Organising Secretary	CSIR, DST

19. Invited Lectures / Resource Person

No	Institute / Organizer	Name of the Conference / Seminar / Workshop	International / National / State / Institute Level	Date(s)
1	MKU	Academic Staff College, Madurai Kamaraj University, Madurai, Tamil Nadu	Institute Level	25-07-2015

		Refresher Resource person: Stimuli Responses of Azo macromolecules		
2	MKU	Academic Staff College, Madurai Kamaraj University, Madurai, Tamil Nadu Refresher Resource person: Novel Hole Transport Materials for Dye Sensitized Solar Cells	Institute Level	29-11-2016
3	Bhrathiar University	Recent Treads in Dye Sensitised Solar Cells	Institute Level	07.02.2018
4	Bhrathiar University	New Approaches for the Design of Asymmetric Catalysts: Applications in Various Organic Reactions	National Level	14.08.2020

20. Professional Development Programs / Faculty Development Programs Organized: -

Name of the Program	Role	Place	Date(s)	Funds in Rs & Sponsor

21. Professional Development Programs / Faculty Development Programs Attended

Name of the Program	Place	Date(s)	Sponsor
Orientation Course, Academic Staff College, MKU, India	Madurai Kamaraj University, Madurai	27th July 2011 to 23rd August 2011 (Four weeks)	UGC
Refresher Course, Academic Staff College, MKU, India	Madurai Kamaraj University, Madurai	12th July 2012– 1st August 2012. (Three weeks)	UGC
Refresher Course, Academic Staff College, MKU, India	Madurai Kamaraj University, Madurai	1st February 2018 to 21st February 2018 (Three weeks)	UGC
Novel Applications of Waste technology Systems for Sustainable Future	M S RAMAIAH INSTITUTE OF TECHNOLOGY, Bengaluru	9th March 2020 to 13th march 2020	AICTE training and learning Academy, New Delhi
Research Methodology	26th April 2021 to 1st May 2021	Kamala Nehru Mahavidyalaya, Nagpur	MHRD, New Delhi
Green Technology and	Athiyamaan College	2nd August	AICTE

Sustainability in Chemistry	of Engineering, Hosur	2021 to 6th August 2021	training and learning Academy, New Delhi

22. Administrative Experiences

Role Played	Responsibilities	Period (from … to)
Coordinator-Campus Interview (SOC)	Campus interview arrangement-M.Sc, M.phil and Ph.D students (Chemistry)	2011-2013
SOC, Chemical Store In charge	Maintain the stock register and Purchase of chemicals	2012-2015
Analytical instruments in charge (HPLC, DSC-TGA, EPR)	Maintain instruments	2015-till date
Exam Coordinator (SOC)	Preparing time tables, exam schedule, Exam Hall arrangements	2020 to till date
Building Coordinator	School of Chemistry Building Maintenance	2022- till date

23. Membership in Academic Bodies

Duration / Date range (In chronological order)	*Details of activity*
12.2.2014	Constitution of doctoral committee meeting at Anna University, Dindigul.
12.2.2014	M.Sc programme examination question setter, at Manonmaniam Sundaranar University, Tirunelveli
21.02.2014	Constitution of doctoral committee meeting at VIT university, Vellore.
14.03.2014	Doctoral Committee meeting-External Member, Gandhigram Rural University, Gandhigram, Dindigul.
19.08.2014	Doctoral Committee meeting-External Member, Gandhigram Rural University, Gandhigram, Dindigul.
30.10.2014	Constitution of doctoral committee meeting at VIT university, Vellore.
15.11 2014	Gandhigram Rural Institute-DU, Ph.D chemistry, semester examination valuation of answer papers, Gandhigram
15.12 2014	Gandhigram Rural Institute-DU, M.Sc chemistry, semester examination valuation of answer papers, Gandhigram
06.02.2014	Constitution of doctoral committee meeting at VIT university, Vellore.
12.03.2015	External examiner for Ph.D. public viva voce examination at Prist University, Tanjore.

25.03.2015	External examiner for Ph.D. public viva voce examination at Prist University, Tanjore.
21.04.2015	Doctoral Committee meeting-External Member, Gandhigram Rural University, Gandhigram, Dindigul.
30.04 2015	Gandhigram Rural Institute-DU, M.Sc chemistry, semester examination question setter, GRI, Gandhigram
07.05.2015	External examiner for Ph.D. public viva voce examination at Prist University, Tanjore.
9.04.2015	External examiner for M.Sc. project evaluation and viva voce examination at Lady Doak College, Madurai.
25.06. 2015	Gandhigram Rural Institute-DU, Ph.D chemistry, semester examination valuation of answer papers, Gandhigram
15.10.2015	Doctoral Committee meeting-External Member, Gandhigram Rural University, Gandhigram, Dindigul.
30.11 2015	Gandhigram Rural Institute-DU, M.Sc chemistry, semester examination question setter, GRI, Gandhigram
4.2.2016	Adjudicators of Ph.D thesis evaluation, VIT University, Vellore.
12.02. 2015	Gandhigram Rural Institute-DU, Ph.D chemistry, semester examination valuation of answer papers, Gandhigram
28.3.2016	Subject expert for selection committee, DST-SERB project, Thiagarajar college, Madurai
30.03. 2016	Bharathidasan University, M.Sc chemistry, semester examination question setter, BDU, Tiruchirappalli.
28.04. 2016	Bharathidasan University, M.Phil chemistry, semester examination question setter, BDU, Tiruchirappalli.
16.12 2016	Gandhigram Rural Institute-DU, M.Sc chemistry, semester examination question setter, GRI, Gandhigram
22.12 2016	Gandhigram Rural Institute-DU, M.Phil chemistry, semester examination question setter, GRI, Gandhigram
26.12.2016 to 7.1-2017	Mother Teresa womens university, PG chemistry, semester examination valuation of answer papers, Theni
20.04. 2017	Bharathidasan University, M.Sc., chemistry, semester examination question setter, BDU, Tiruchirappalli.
27.04 2017	Gandhigram Rural Institute-DU, M.Sc., chemistry, semester examination question setter, GRI, Gandhigram
07.06.2017 to 18.6.2017	Mother Teresa womens university, PG chemistry, semester examination valuation of answer papers, Theni
22.05.2017	Constitution of doctoral committee meeting at VIT university, Vellore.
08.11.2017	Gandhigram Rural Institute-DU, External examiner for M.Sc., Chemistry practicals. Gandhigram
30.10.2018	Gandhigram Rural Institute-DU, External examiner for M.Sc.,

	Chemistry practicals. Gandhigram
10.12.2018	Gandhigram Rural Institute-DU, External examiner for M.Sc., Chemistry paper evaluation, Gandhigram
29.10.2019	Gandhigram Rural Institute-DU, External examiner for M.Sc., Chemistry practicals. Gandhigram
04.12.2019	Doctoral Committee meeting-External Member, Manonmaniam Sundaranar University, Tirunelveli.
03.07.2020	Constitution of doctoral committee meeting at VIT university, Vellore.
11.09.2020	Constitution of doctoral committee meeting, Bharathiar University, Coimbatore.
21.10.2020	Constitution of doctoral committee meeting at VIT university, Vellore.

24. Membership in Recognised Professional Bodies

Name of the Professional Body	International / National	Type of Membership
Korean polymer society	International	Life member
CRSI	National	Life Member

25. Languages Known

Languages	Read	Write	Speak
Tamil	Yes	Yes	Yes
English	Yes	Yes	Yes

26. Competence in Computer Applications

27. Involvement in Extension Activities other than Academic Works

(i) Editorial Board member in Current organic Synthesis
(ii) Editorial board member in Journal of applied polymer Science

28. Any Other Relevant Information

Future Plans

Teaching:

- To teach scientific ways of thinking
- New methods for making more effective class sessions
- Actively involve students in their own learning
- Way to encourage student's participation in competitive examinations
- Promote student discussion and group activities
- To teach effective examples for laboratory practices
- Help students experience science in varied, interesting and enjoyable ways.
- Assess student understanding at frequent intervals throughout the learning process.

Details of Publications

1. Books Published

Spectroscopy-Applications in organic and inorganic chemistry, Alagappa University, Karaikudi, 2019.

2. Books Edited : Nil

3. Contribution to Book Chapters

Nelson Malini, Sepperumal Murugesan, **Ayyanar Siva**, Design and Synthesis of Fluorescent Chemosensors for the Detection of Biological Amines and their Cell Imaging Studies (Book chapter in Press)

4. Editor of Conference/Seminar Proceedings : Nil

5. Research Publications

5.1. UGC-CARE Listed Journals

Total Number of Publications : 109

<u>Selected Publications</u>

1. Design, synthesis, experimental investigations, theoretical corroborations, and distinct applications of a futuristic fluorescence chemosensor for the unveiling of Zn^{2+} ions Malini Nelson; Franc Predih; Aravind Manikka Kubendran; Gayathri Santhalingam; Ashokkumar Balasubramaniem, and **Siva Ayyanar**, *Journal of Molecular structure*, **2023**, Accepted for publication.
2. A novel hydrazone platform for the recognition of Cd^{2+} and F^{-} ions: Imaging analysis in Zebrafish embryos Krishnaveni Karuppiah, Malini Nelson, Muniyappan

Chinnamadhaiyan, Manickam Selvaraj, Murugesan Sepperumal and **Siva Ayyanar**, *Journal of Molecular structure*, **2023**, Accepted for publication.

3. Molecular Design and Cost-Effective Synthesis of Tetraphenylethene-Based Hole-Transporting Materials for Hybrid Solar Cell Application, Harikrishnan Muniyasamy, Kandasamy Muthusamy, Muniyappan Chinnamadhaiyan, Murugesan Sepperumal, **Siva Ayyanar**, Manickam Selvaraj, *Energy Fuels*, **2022**, 36, 7, 3909–3919. Impact factor: 4.32.
4. Incredible colorimetric sensing behavior of pyrazole-based imine chemosensor towards copper (II) ion detection: synthesis, characterization and theoretical investigations, Malini Nelson, Harikrishnan Muniyasamy, Pavithra Ongi, Sankar Balakrishnan, Murugesan Sepperumal, **Siva Ayyanar**, Rajesh Jegathalaprathaban, *Results in Chemistry*, **2022**, 4, 100501. Impact factor: 2.21.
1. Visualization of CO_3^{2-} detection using colorimetric chemosensor by simple molecular motif in aqueous environment and its versatile utilizations, Nelson Malini, **Ayyanar Siva,** Inorganic Chemistry Communications, **2022**, 143, 109754. Impact factor: 2.9.
2. Synthesis of C3-Symmetric Triazine-Based Derivatives: Study of their AIEE, Mechanochromic Behaviors, and Detection of Picric Acid and Uric Acid in Aqueous Medium, Harikrishnan Muniyasamy, Chithiraikumar Chinnadurai, Malini Nelson, Ashokkumar Veeramanoharan, Murugesan Sepperumal and **Siva Ayyanar,** *Industrial & Engineering Chemistry Research*, **2021**, 60, 21, 7987-7997. Impact factor: 4.05.
3. Carbazole based fluorescent chemosensor for the meticulous detection of tryptamine in aqueous medium and its efficacy in cell-imaging and molecular logic gate, Malini Nelson, Harikrishnan Muniyasamy, Aravind Manikka Kubendran, Ashokkumar Balasubramaniem, Murugesan Sepperumal, **Siva Ayyanar,** *Journal of Molecular Liquids* **2021**, 337, 116445. Impact factor: 6.206.
4. Triazole-naphthalene based fluorescent chemosensor for highly selective naked eye detection of carbonate ion and real sample analyses, Harikrishnan Muniyasamy, Chithiraikumar Chinnadurai, Malini Nelson, Muniyappan Chinnamadhaiyan, **Siva Ayyanar**, *Inorganic Chemistry Communications*, **2021**, 133, 108883. Impact factor: 2.9.
5. Fluorimetric and colorimetric detection of multianalytes Zn2+/Cd2+/F− ions via 5-bromosalicyl hydrazone appended pyrazole receptor; live cell imaging analysis in HeLa cells and zebra fish embryos, Karuppiah Krishnaveni, Sepperumal Murugesan,

Ayyanar Siva, *Inorganic Chemistry Communications*, 132, **2021**, 108843. Impact factor: 2.9.

6. Efficient base-free asymmetric one-pot synthesis of spiro [in doline-3,3′-pyrrolizin] -2-one derivatives catalyzed by chiral organocatalyst, Chinnadurai Chithiraikumar, Kottala Vijaya Ponmuthu, Muniyasamy Harikrishnan, Nelson Malini, Murugesan Sepperumal, **Ayyanar Siva,** *Research on Chemical Intermediates*, **2021**, 47, 895–909. Impact factor: 2.99.
7. An aerobic oxidation of alcohols into carbonyl synthons using bipyridyl-cinchona based palladium catalyst, Ravi Kumar Cheedarala, Ramasamy R. Chidambaram, **Ayyanar Siva** and Jung Il Song, RSC Advances., **2021**, 11, 32942. Impact factor: 3.245.
8. Highly Selective fluorogenic chemosensor for cyanide ion in aqueous medium and its applications of logic gate and Hela cells, Harikrishnan Muniyasamy, Chithiraikumar Chinnadurai, Malini Nelson, Aravind Manikka Kubendran, Karthika Sukumaran, Ashokkumar Balasubramaniem, Murugesan Sepperumal, **Siva Ayyanar**, Mani Govindasamy, Ayman Ghfar, Fehaid Mohammed Alsubaied, Journal of Molecular Liquids, 334, **2021**, 116076. Impact factor: 6.206.
9. Marine algal antagonists targeting 3CL protease and spike glycoprotein of SARS-CoV-2: a computational approach for anti-COVID-19 drug discovery, Marine algal antagonists targeting 3CL protease and spike glycoprotein of SARS-CoV-2: a computational approach for anti-COVID-19 drug discovery, *Journal of Biomolecular Structure and Dynamics*, **2021**, 1-28. Impact factor: 4.15.
10. Anthracene-based fluorescent probe: Synthesis, characterization, aggregation-induced emission, mechanochromism, and sensing of nitroaromatics in aqueous media, Kumaraguru Duraimurugan, Muniyasamy Harikrishnan, Jagannathan Madhavan, **Ayyanar Siva**, Seung Jun Lee, Jayaraman Theerthagiri, Myong Yong Choi, *Environmental Research*, 194, **2021**, 110741. Impact factor: 7.64.
11. A dual responsive probe based on bromo substituted salicyl hydrazone moiety for the colorimetric detection of Cd2+ ions and fluorometric detection of F– ions: Applications in live cell imaging, Krishnaveni Karuppiah, Iniya Murugan, Murugesan Sepperumal, and **Siva Ayyanar,** *Int. J. Bioorg. and Med. Chem.* **2021**, 1, 1-9.
12. Naphthyl hydrazone anchored with nitrosalicyl moiety as fluorogenic and chromogenic receptor for heavy metals (Ag^{+}, Hg^{2+}) and biologically important F^{-} ion and its live cell imaging applications in HeLa cells and Zebrafish embryos, Karuppiah

Krishnaveni, Murugan Iniya, **Ayyanar Siva**, Narayanadoss Vidhyalakshmi, Sundaresan Sasikumar, Uthanda Kalai Pandian Ramesh, Sepperumal Murugesan, *Journal of Molecular Structure* 1217, **2020**, 128446. Impact factor: 3.57.

13. Design and synthesis of new salicylhydrazone tagged indole derivative for fluorometric sensing of Zn^{2+} ion and colorimetric sensing of F^- ion: Applications in live cell imaging, Krishnaveni Karuppiah, Harikrishnan Muniyasamy, Murugesan Sepperumal, **Siva Ayyanar,** *Microchemical Journal*, 159, **2020**, 105543. Impact factor: 4.821.
14. A highly sensitive and selective Schiff-base probe as a colorimetric sensor for Co2+ and a fluorimetric sensor for F− and its utility in bio-imaging, molecular logic gate and real sample analysis, Ganesan Jeya Shree, Sepperumal Murugesan, **Ayyanar Siva,** *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 2265, **2020**, 117613. Impact factor: 4.831.
15. Novel star-shaped D–π–D–π–D and $(D–\pi)_2$–D–$(\pi–D)_2$ anthracene-based hole transporting materials for perovskite solar cells, Muniyasamy Harikrishnan, Sepperumal Murugesan and **Ayyanar Siva,** *Nanoscale Advances*, **2020**, 2, 3514. Impact factor: 5.11.
16. Cu $(OAc)_2$-entrapped on ethylene glycol modified melamine-formaldehyde polymer as an efficient heterogeneous catalyst for Suzuki-Miyaura coupling reactions, Velu Sadhasivam, Balakrishnan Sankar, Ganesan Elamathi, Mathappan Mariyappan and **Ayyanar Siva,** *Res. Chem. Intermed*, **2020**, 46, 681-700. Impact factor: 2.99.
17. Copper nanoparticles supported on highly nitrogen-rich containing covalent organic polymers as heterogeneous catalyst for *ipso*-hydroxylation of phenyl boronic acid to phenol, Velu Sadhasivam, Muniyasamy Harikrishnan, Ganesan Elamathi, Rajendran Balasaravanan, Sepperumal Murugesan and **Ayyanar Siva,** ***New J. Chem.***, **2020, 44,** 6222-6231. Impact factor: 3.63.
18. Energy Level Tuning of Novel Star Shaped D-π-D-A Based Metal Free Organic Dyes for Solar Cell Application, Harikrishnan Muniyasamy, Sadhasivam Velu, **Siva Ayyanar**, Anandan Sambandam, Vijaya Subbiah, Murugesan Sepperumal, *J. Phys. Chem. C*, **2019**, 123, 21959−21968. Impact factor: 4.126.
19. Catalytic hydrogenation of aldehydes and ketones using cinchona–bipyridyl-based palladium catalyst, Ramasamy R. Chidambaram, Velu Sadhasivam,

Mathappan Mariyappan, **Ayyanar Siva,** *Journal of the Iranian Chemical Society*, **2019**, 16, 2, 373–384. Impact factor: 2.30.

20. Execution of julolidine based derivative as bifunctional chemosensor for Zn^{2+} and Cu^{2+} ions, Jeya Shree Ganesan, Sivaraman Gandhi, K. Radhakrishnan, Murugesan Sepperumal and **Siva Ayyanar,** *Dyes and Pigments*, **2019**, 163, 204-112. Impact factor: 5.122.
21. Design, synthesis of organic sensitizers containing carbazole and triphenylamine π-bridged moiety for dye-sensitized solar cells, Velu Sadhasivam, Muniyasamy Harikrishnan, **Ayyanar Siva**, Suresh Maniarasu, Ganapathy Veerappan, Sepperumal Murugesan, *Journal of the Iranian Chemical Society*, **2019**, 16, 9, 1923–1937. Impact factor: 2.30.
22. Novel furan coupled quinoline diamide hybrid scaffolds as potent antitubercular agents: Design, synthesis and molecular modelling, Anantacharya Rajpurohit , Satyanarayan Nayak Devappa , Lokesh Pathak , **Siva Ayyanar** , Chidambaram Ramaswamy Rishinaradamangalam , Praveen Shoorapani, *Medicinal Chemistry*, **2020**, 16, 4, 507-516. Impact factor: 2.36.
23. The organocatalytic Highly Enantioselective Knoevenagel Condensation: Applications in the Synthesis of Various Chiral Amide Derivatives, Veeramanoharan Ashokkumar, **Ayyanar Siva** and Balakrishnan Sankar, *Journal of the Iranian Chemical Society* **2019**, 29, 3 737–749. Impact factor: 2.30.
24. Turn-on fluorescence chemosensor for Zn^{2+} ion using salicylate based azo derivatives and their application in cell-bioimaging, Mathappan Mariyappan, Nelson Malini, Jayaraman Sivamani, Gandhi Sivaraman, Muniyasamy Harikrishnan, Sepperumal Murugesan and **Ayyanar Siva,** *Journal of Fluorescence*, **2019**, 29:737–749. Impact factor: 2.525.
25. A Simple Triazine (D-A) Based Organic Fluorophore Selective Dual Sensor for Copper (II) and Dichromate ions and its Solvatochromism, Solid state sensing, Logic gate applications, Muniyasamy Harikrishnan, Velu Sadhasivam, Mathappan Mariyappan, Nelson Malini, Sepperumal Murugesan, **Ayyanar Siva,** *Dyes and Pigments*, **2019**, 168, 123-133. Impact factor: 5.122.
26. PdO nanoparticles supported on triazole functionalized porous triazine polymer as an efficient heterogeneous catalyst for carbonylation of aryl halides, Velu Sadhasivam, Rajendran Balasaravanan, **Ayyanar Siva,** *Applied Organometallic Chemistry*, **2019**, 33, 8, e4994. Impact factor: 3.77.

27. Design, simple and efficient synthesis of bio active novel pyrazolyl-isoxazoline hybrids, Balakrishnan Sankar, Muniyasamy Harikrishnan, Ranganathan Raja, Velu Sadhasivam, Nelson Malini, Sepperumal Murugesan, **Ayyanar Siva,** *New Journal of chemistry*, **2019**, **43,** 10458-10467. Impact factor: 3.63.
28. Dual-mode recognition of biogenic amine tryptamine and fluoride ion by naphthyl hydrazone platform: Application in fluorescence imaging of HeLa cells and Zebrafish embryos, Karuppiah Krishnaveni, Sepperumal Murugesan and **Ayyanar Siva,** *New Journal of chemistry*, **2019**, **43,** 9021-9031. Impact factor: 3.63.
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42. A phenanthroimidazole based effective colorimetric chemosensor for copper (II) and Fluoride ions, A. Jesin Beneto, **A. Siva**, *Sensor and Actuators B: Chemical*, **2017,** 247, 526-531. Impact factor: 8.42.
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5.2. Other Refereed Journals : Nil

5.3. Papers Published in Conference Proceedings : Nil

5.4.1. International Conferences

1. Duraimurugan Kumaraguru, Sathiyaraj Munusamy, Thiagarajan Viruthachalam and **Siva Ayyanar**, Synthesis, photo physical properties and DFT study of triphenylamine based fluorescent dyes, International Conference on Advances in New materials [ICAN -2014], 20 th & 21st June 2014.
2. Sivamani Jayaraman and **Siva Ayyanar**, Highly Enantioselective Asymmetric Michael Addition Reactions with New Chiral Multisite Phase Transfer Catalysts, International Conference on Advances in New materials [ICAN -2014], University of Madras.20 th & 21 st June 2014,
3. Balasaravanan Rajendiran, Thiagarajan Viruthachalam and **Siva Ayyanar**, Synthesis and two photon absorption properties of novel triphenylamine based dendrimers, International Conference on Advances in New materials [ICAN -2014], University of Madras, 20 th & 21st June 2014.
4. Ashokkumar Veeramanoharan and **Siva Ayyanar**, Cinchona Alkaloid Based Quaternary Ammonium Salt as Chiral Phase-Transfer Catalysts, Asymmetric Michael Addition Reactions, International Conference on Advances in New materials [ICAN -2014], University of Madras 20 th & 21 st June 2014.
5. KottalaVijaya Ponmuthu and **Siva Ayyanar**, Enantioselective Epoxidation of α, β-Unsaturated Ketones Mediated by New Cinchona Alkaloid as Chiral Phase-Transfer Catalysts, International Conference on Advances in New materials [ICAN -2014], University of Madras, 20 th & 21st June 2014.
6. Sathiyaraj Munusamy, Duraimurugan Kumaraguru, Thiagarajan Viruthachalam and **Siva Ayyanar**, Synthesis, characterization and photophysical properties of 9,10-Bis (alkoxystyrylanthracene with various chain length, International Conference on Advances in New materials [ICAN -2014], University of Madras, 20 th & 21 st June 2014.
7. Arockiam Jesin Beneto and **Ayyanar Siva**, Triphenylamine based benzothiazolepyridinyl funcitonalized fluorophore for tunable switching under peace, themo,protonation and deprotonation conditions, 13th Eurasia conference on chemical sciences, Indian Institute of Science, Bangalore, India. December 14-18, 2014.

8. Duraimurugan Kumaraguru and **Siva Ayyanar**, Aggregation-induced emission and piezochromic luminescence behavior of 9, 10-bis(alkoxystyryl)anthracene derivatives, New Materials in Chemistry (NMC-2015), University of Calicut, 30 & 31 January 2015.
9. Jayaraman Sivamani, Rajendiran Balasaravanan, Velu Sadhasivam and **Ayyanar Siva**, Synthesis, Characterization and photo physical properties of biphenyl based azo derivatives, New Materials in Chemistry (NMC-2015), University of Calicut, 30 & 31 January 2015.
10. Balasaravanan Rajendiran, Sivamani Jayaraman, Balaji Ganesan and **Siva Ayyanar**, Synthesis and Photophysical Properties of Multi Branched Triphenylamine Derivatives, New Materials in Chemistry (NMC-2015), University of Calicut, 30 & 31 January 2015.
11. Ashokkumar Veeramanoharan and **Siva Ayyanar**, Cinchona Alkaloid Based Chiral Catalysts act as Highly Efficient Multifunctional Organocatalysts for the Asymmetric Conjugate Addition of Malonates to Nitroolefins,New Materials in Chemistry (NMC-2015), University of Calicut,30 & 31 January 2015,.
12. Duraimurugan Kumaraguru and **Siva Ayyanar**, Synthesis, characterization and photophysical properties of triazine based star-like dendrimers, International Conference on Recent Advances in Materials and Chemical Sciences [ICRAMCS-2015] Gandhigram Rural Institute-Deemed University, 14 & 15 th December 2015.
13. Ashokkumar Veeramanoharan and **Siva Ayyanar**, Binaphthol based efficient chiral organocatalysts for enantioselective synthesis of Nitroaldol reaction, , International Conference on Recent Advances in Materials and Chemical Sciences [ICRAMCS-2015] Gandhigram Rural Institute-Deemed University, 14 & 15 th December 2015.
14. KottalaVijaya Ponmuthu, Murugesan Sepperumal and **Siva Ayyanar**, Highly Enantioselective Epoxidation of Benzylidenemalononitrile Derivatives Using New Cinchona Alkaloid Based Chiral Phase-Transfer Catalysts, International Conference on Recent Advances in Materials and Chemical Sciences [ICRAMCS-2015], Gandhigram Rural Institute-Deemed University, 14 & 15 th December 2015.
15. Kumaresan Gnanasekaran, Kottala Vijaya Ponmuthu, and **Siva Ayyanar**, An Efficient Method For The Heck Coupling Reactions Catalysed By Bipyridine Based Palladium Catalyst, International Conference on Recent Advances in Materials and

Chemical Sciences [ICRAMCS-2015], Gandhigram Rural Institute-Deemed University, 14 & 15 th December 2015.

16. Muniyasamy Harikrishnan, Velu Sadhasivam, Mathappan Mariyappan, Sepperumal Murugesan, **Ayyanar Siva**, Design, Synthesis and Characterization of Triazine (D-A) Based Fluorophore for Selective Sensing of Copper (II) and Dichromate ions by Naked eye, at international conference on Advances, University of Madras, Jun-2018
17. Nelson Malini, Muniyasamy Harikrishnan, Ongi Pavithra, **Ayyanar Siva**, Incredible Colorimetric Sensing Behavior of Pyrazole-Based Imine Chemosensor towards Copper (II) Ion Detection: Synthesis, Characterization and Theoretical Investigations. International Conference on Frontiers in Chemical and Material Sciences (ICFCMS-2020), The Gandhigram Rural Institute (Deemed to be University), 24-25 Feb 2020.
18. Sabareesan A, Malini N, Berty Ashley, Arun Shastry, **Siva A**, Process and Development of novel method for synthesis of Modified Oligonucleotides with Phosphorothioate backbone as potential Antisense Drugs for Duchenne Muscular Dystrophy, International Conference on Frontiers in Chemical and Material Sciences (ICFCMS-2020), The Gandhigram Rural Institute (Deemed to be University), 24-25 Feb 2020.
19. Malini Nelson, Harikrishnan Muniyasamy, Chithiraikumar Chinnadurai and **Siva Ayyanar**, Triazole-Naphthalene based Fluorescent Chemosensor for Highly Selective Naked Eye Detection of Carbonate Ion and Real Sample Analyses, Recent Trends in Natural Products Research and their Applications (RTNPRA-21), Madurai Kamaraj University, School of Chemistry, 16-17th September, 2021.
20. Muniyappan Chinnamadhaiyan Harikrishnan Muniyasamy and **Siva Ayyanar**, Design, Synthesis of Carbazole and Triphenylamine Based Metal Free Organic Dyes for Solar Cell Application, Recent Trends in Natural Products Research and their Applications (RTNPRA-21), Madurai Kamaraj University, School of Chemistry,16-17th September, 2021.
21. Yesudhasan Chinnaraj, Krishnaveni Karuppiah,Murugesan Sepperumal and **Siva Ayyanar**, A Novel 5-Bromoindolehydrazone Anchored Diiodosalicylaldehyde Derivative As Turn- On Multifunctional Probe For The Selective And Sensitive Detection Of Biogenic Tryptamine And F– Ions and Their Live Cell Applications in Hela Cells/Zebrafish Embryos, Recent Trends in Natural Products Research and their Applications (RTNPRA-21), Madurai Kamaraj University, School of Chemistry 16-17th September, 2021.

22. Muniyappan Chinnamadhaiyan, **Siva Ayyanar**, Molecular design and Cost-effective Synthesis of Tetraphenylethene based Hole transporting Materials for Hybrid Solar cell Application, Recent Advances in Chemical Sciences (RACS 2k22), The Gandhigram Rural Institute (Deemed to be University), July 21-22, 2022.
23. K. Fathima Ramisha, Nelson Malini, **Ayyanar Siva**, Visualization of CO_3^{2-} Detection using Colorimetric Chemosensors by Simple molecular motif in aqueous Environment and its Versatile Utilizations. Recent Advances in Chemical Sciences (RACS 2k22), The Gandhigram Rural Institute (Deemed to be University), July 21-22, 2022.

5.4.2. National Conferences

1. KottalaVijaya Ponmuthu, Murugesan Sepperumal and **Siva Ayyanar**, Inversion of the Enantioselectivity in Michael Addition Reaction using Chiral Phase Transfer Catalysts derived from Cinchonine, National Conference on Chemistry for Sustainable Energy, Clean Environment and Health (CEEH), Manonmaniam Sundaranar University, Tirunelveli. 21 & 22 nd January 2015,
2. Kumaraguru Duraimurugan and **Ayyanar Siva**, Electron Rich Triphenylamine Derivative (D-Π-D) For Selective Sensing of Picric Acid in Aqueous Media, Indian National conference on Development in Inorganic Applications (INDIA-2015), Periyar University,15 & 16 th October 2015,
3. Jayaraman Sivamani, and **Ayyanar Siva**, A Selective and Effective Detection of Hg 2+ on Biphenyl Oxime Based Azo Derivative, Indian National conference on Development in Inorganic Applications (INDIA-2015), Periyar University,15 & 16 th October 2015.
4. Rajendiran Balasaravanan and **Ayyanar Siva**, Intramolecular Charge Transfer and Aggregation Induced Emission Properties of Cyano Substituted Triphenylamine Derivatives, Indian National conference on Development in Inorganic Applications (INDIA-2015), Periyar University, 15 & 16th October 2015,
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6. Vaithilingam Dhanamoorthy and **Ayyanar Siva**, Alkylation reactions of Curcumin in Presence of Novel Multi-site Quaternary Ammonium ion act as a Phase Transfer Catalyst, Indian National conference on Development in Inorganic Applications (INDIA-2015), Periyar University, 15 & 16 th October 2015.
7. Velu Sadhasivam, Jayaraman Sivamani and **Ayyanar Siva**, Triphenylamine Based Azo Derivative for Selective Turn-Off Sensing of Picric acid, Indian National conference on Development in Inorganic Applications (INDIA-2015) Periyar University. 15 & 16 th October 2015.
8. Arockiam Jesin Beneto and **Ayyanar Siva**, Selective detection of trivalent cations (Al^{3+}, Cr^{3+}, Fe^{3+}) by pyridinyl functionalized triphenylamine fluorogen, National conference on recent advances in chemical sciences (RACS-2015), Gandhigram Rural Institute-Deemed university 5-6 march 2015.
9. Arockiam Jesin Beneto and **Ayyanar Siva**, Phenanthro[9,10-d] imidazole based ratiometric pH sensor, 10 th Mid-Year Chemical Research Society of India (CRSI) symposium in chemistry, jointly organised by Nationl Institute of Technology & Bharathidasan University, Tiruchirappalli, India, july23-25, 2015.
10. **Siva Ayyanar**, Participated in Solar Energy Conversion, Lecture Workshop conducted by School of Chemistry, Madurai Kamaraj University, Madurai, India. 29 th September 2014.
11. **Siva Ayyanar,** Participated in Recent Trends in Chemistry, National seminar organised by School of Chemistry, Madurai Kamaraj University, Madurai, India. September 11 th , 2015.
12. Ashokkumar Veeramanoharan and **Siva Ayyanar**, (Poster Presentation), Highly Efficient Direct Asymmetric Aldol Reactions in Aqueous Media Catalyzed by a Bifunctional Chiral Organocatalysts, CRSI organized Three-day National Seminar on Emerging Trends in Chemistry, School of Chemistry, Madurai Kamaraj University, Madurai, Tamil Nadu, 18-20, February-2016.
13. Vaithialingam Dhanamoorthy and **Ayyanar Siva**, Catalyst Free Effective synthesis of α–Fluorinated amides, Presented poster presentation in Three-Day National Seminar on EmergingTrends in Chemistry, Madurai Kamaraj University, Madurai-21. during February 18-20, 2016.
14. Ponmuthu KottalaVijaya, Sepperumal Murugesan and **Ayyanar Siva**, Asymmetric Henry Reaction Catalyzed by New Cinchona Alkaloid as Chiral Phase-Transfer Catalysts. Paper presented in National Seminar on Emerging Trends in Chemistry,

School of Chemistry, Madurai Kamaraj University, Madurai-625 021, February 18 to 20, 2016.

15. Muniyasamy Harikrishnan, Velu Sadhasivam, Sepperumal Murugesan, Nelson Malini, **Ayyanar Siva**. Photophysical studies tetraphenylethene base hole transport materials. International conference on Nanomaterials for Energy, Environment, Catalysis and Sensors, MKU, Madurai, Dec-2017, participation
16. Muniyasamy Harikrishnan, Velu Sadhasivam, Sepperumal Murugesan, **Ayyanar Siva**, Energy level tuning of novel star shaped D-π-D-A based dyes for DSSCs applications, Gandhigram Rural Institute, March 2019.
17. Balakrishnan Sankar, Nelson Malini, Muniyasamy Harikrishnan, Sepperumal Murugesan and **Ayyanar Siva**, Design of a simple and efficient synthesis for bioactive novel pyrazolyl–isoxazoline hybrids, Gandhigram Rural Institute, March 2019.
18. Nelson Malini, **Ayyanar Siva**, Exploiting tryptamine detection via carbazole based fluorescent chemosensor under aqueous medium and its usefulness in cell-imaging and molecular logic gate, National Conference on Analytical and Materials Chemistry for Everyday life (AMC-21), Theivanai Ammal College for women (autonomous), Villupuram, 3rd feb 2021.

5.4.3. State : Nil

5.5. Any Other Publications Not Mentioned Above

6. Conferences / Seminars / Workshops / Webinars Attended : Nil

7. Details of Deposits in CCDC, PDB, etc.

No	Name of Deposit	Reference No.	Date of Deposition
1	**Ayyanar Siva**	1516218	**10.10.2016**
2	**Ayyanar Siva**	1897410	**08.07.2019**