



## Curriculum Vitae

1. Name & Designation : **Dr. M. A. NEELAKANTAN**  
Professor of Chemistry  
Head, Department of Science and Humanities  
Dean, Research and Development  
National Engineering College,  
K.R. Nagar, Kovilpatti – 628 503,  
Thoothukudi District, Tamil Nadu, India
2. Date & Place of Birth : 31- 07-1962, Kanyakumari District
3. Nationality : Indian
4. Present Post : Dean, Research and Development  
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8. Qualifications M.Sc., B.Ed., M.Phil., Ph.D

9. Experience

Period (Year)	Name of the Post	Area of specialization/ Subjects	Name of Institute/ University/
2015- Till date	Dean, Research and Development	Research	National Engineering College
2002- till Date	Professor and Head	Environmental Science and Engineering Inorganic Chemistry Bioinorganic Chemistry	National Engineering College
1999 - 2002	Assistant professor	Inorganic Chemistry	National Engineering College
1990-1999	Senior Lecturer	Inorganic Chemistry	National Engineering College
1986-1990	Lecturer	Inorganic Chemistry	National Engineering College
1984-1986	Lecturer	Inorganic Chemistry	Noorul Islam Polytechnic College

10.	<b>Areas of Research</b>
	<ul style="list-style-type: none"> <li>• Mixed Ligand Complexes</li> <li>• Solution Equilibria</li> <li>• Bio-Inorganic Chemistry</li> <li>• Computational Chemistry</li> <li>• Water Quality Parameters</li> <li>• Heavy metal contamination and removal</li> <li>• Environmental Science and Engineering</li> </ul>
11.	<b>Fellowship</b>
	<ul style="list-style-type: none"> <li>• Indian Council of Chemists</li> <li>• ISTE</li> </ul>
12.	<b>Member of Professional Bodies</b>
	<ul style="list-style-type: none"> <li>• American Chemical Society</li> <li>• Indian Chemical Society</li> </ul>
13.	<b>Member, Editorial Board</b>
	<ul style="list-style-type: none"> <li>• Member : ISRN Inorganic Chemistry</li> </ul>
14.	<b>Mentor for Ph.Ds</b>
	<ul style="list-style-type: none"> <li>• Ph.D produced : 13</li> <li>• Ph.D. Pursuing : 8</li> </ul>
15.	<b>Ph.D thesis Evaluated</b>
	<ul style="list-style-type: none"> <li>• No. of Ph.D thesis evaluated : 5</li> </ul>
16.	<b>Funded Projects</b>
	<ul style="list-style-type: none"> <li>• Title of Project : <b>Synthesis, Characterization and Stability of Bifunctional</b></li> </ul>

			<b>Chelate Ga(III), Cu(II) and Zn(II) complexes</b>
	Principal Investigator	:	M.A. Neelakantan
	Funding Agency	:	BRNS (DAE)
	Amount	:	Rs.28,18,550/-
	Duration	:	March 2007 – March 2010
	Status	:	Completed
•	Title of Project	:	<b>Cu(II) and Zn(II) Complexes of Imidazole and Amino acid Donors: Synthesis, Characterization, Stability and Biological Activities</b>
	Principal Investigator	:	M.A. Neelakantan
	Funding Agency	:	DST
	Amount	:	Rs.29,00,000/-
	Duration	:	November 2010 – November 2013
	Status	:	Completed
•	Title of Project	:	<b>Molecular design, Chemical synthesis and biological evolution of Zinc and Vanadium complexes</b>
	Principal Investigator	:	M.A. Neelakantan
	CoInvestigator	:	S.S.Mariappan
	Funding Agency	:	CSIR
	Amount	:	Rs.11,45,000/-
	Duration	:	July 2013– June 2016
	Status	:	Completed
•	Title of Project	:	<b>Syntheses of novel Bifunctional Chelating Agents and Biomolecule-BFCA conjugates for complexation with Copper, Rhenium, Gallium, Technetium and Lutetium radionuclides for possible applications in Radiopharmaceutical applications</b>
	Principal Investigator	:	M.A. Neelakantan
	CoInvestigator	:	S.Regupathy
	Funding Agency	:	BRNS(DAE)
	Amount	:	Rs.24,24,500/-
	Duration	:	June 2014 – May 2017
	Status	:	Completed
•	Title of Project	:	<b>Spatial Distribution of Uranium and Associated Water Quality Parameters in Five Districts of Tamilnadu (Viruthunagar, Ramanathapuram, Thoothukudi, Tirunelveli and Kanyakumari)</b>
	Principal Investigator	:	M.A. Neelakantan
	CoInvestigator	:	S.S.Mariappan
	Funding Agency	:	BRNS(DAE)
	Amount	:	Rs.25,24,650/-
	Duration	:	July 2015 – June 2017
	Status	:	Completed
•	Title of Project	:	<b>Synthesis, Structural Characterization, Stability and chemical nuclease Activities of some Cu(II) and Zn(II) Complexes containing Imidazole and pyridine moiety with multiple ligation sites</b>

		Principal Investigator : M.A. Neelakantan
	Funding Agency	: DST (SERB)
	Amount	: Rs.44,25,000/-
	Duration	: August 2015 –July 2018
	Status	: Completed
•	Title of Project	<b>Designing of novel benzothiazole derivatives and their Cu(II), Fe(II/III) and Al(III)complexes: Synthesis, structural characterization and biological exploration against distinct pathological factors in Alzheimer's disease</b>
	Co- Investigator	: M.A. Neelakantan
	Funding Agency	: DST (SERB)
	Amount	: Rs.26,19,200
	Duration	: 2018-2021
	Status	: Ongoing
17.	<b>Conference/Workshop/Symposium Organized</b>	
	<ul style="list-style-type: none"> <li>• 5 Days International Webinar for Engineering and Science Students on 08.06.2020 to 12.06.2020, 2020</li> <li>• DST Sponsored National level Symposium on "Emerging Concepts and Trends in Bioinorganic Chemistry" on 07.02.2014 and 08.02.2014.</li> <li>• MNRE Sponsored One day National Level Workshop on "Environmental Challenges in Diffusing the Pollution" on 15.02.2013.</li> <li>• DRDO sponsored National level workshop on "Recent Trends in Inorganic Materials (RTIM-12)" held on 9<sup>th</sup> and 10<sup>th</sup> March 2012.</li> <li>• DST Sponsored National level Symposium on "Emerging Concepts and Trends in Bioinorganic Chemistry" on 24.02.2011 and 25.02.2011.</li> <li>• AICTE sponsored two days workshop on "Awareness on Environment Pollution", on Feb 2004.</li> </ul>	
18.	<b>List of Publications</b>	
	1.	V Raja, MA Neelakantan (2022), Spatial interpretation, radiological mapping of background gamma radiation and risk evaluation for Southern regions of Tamil Nadu, India, Environmental Forensics, 1-9.
	2.	P Kowsalya, MA Neelakantan, NSP Bhuvanesh (2022), Tetranuclear Cu (II) complex with [2+4] Cu <sub>4</sub> O <sub>4</sub> cubane based core framework derived from 2-[{2-(1-hydroxy-ethyl)-phenylimino}-methyl]-6-methoxy-phenol: Quantifying conventional, P Kowsalya, MA Neelakantan, NSP Bhuvanesh, Journal of Molecular Structure 1254, 132396
	3.	MA Neelakantan, V Latha, S Thalamuthu (2022) Polyaromatic ring containing β-diketone derivatives with antiproliferative activity toward human breast cancer cell lines: Synthesis, structure, DNA binding and molecular docking, Journal of Molecular Structure 1249, 131573.
	4.	K.S. Neethu, S. Sivaselvam, M. Theetharappan, J. Ranjitha, N.S. P. Bhuvanesh, N. Ponpandian, M.A. Neelakantan, M.V. Kaveri (2021) In vitro evaluations of biomolecular interactions, antioxidant and anticancer activities of Nickel(II) and Copper(II) complexes with 1:2 coordination of anthracenyl hydrazone ligands, Inorganica Chimica Acta, 524, 120419
	5.	R.V. Lakshmi, V. Raja, S. Chidambaram, C.P. Sekar, M.A. Neelakantan, (2021) Industrial impact on groundwater quality with special reference to Cr <sup>3+</sup> and Pb <sup>2+</sup> in coastal aquifers, Environmental Monitoring and Assessment, 193(7), 389.
	6.	V.Raja, R.V. Lakshmi, C.P. Sekar, S. Chidambaram, M.A. Neelakantan, (2021) Health Risk Assessment of Heavy Metals in Groundwater of Industrial Township Virudhunagar, Tamil Nadu, India, Archives of Environmental Contamination and Toxicology, 80(1), pp. 144–163.
	7.	V. Raja, V., M.A. Neelakantan, (2021), Pollution and noncarcinogenic health risk levels of nitrate and fluoride in groundwater of Ramanathapuram district, Tamil Nadu, India,

		International Journal of Environmental Analytical Chemistry, <a href="https://doi.org/10.1080/03067319.2021.1890063">https://doi.org/10.1080/03067319.2021.1890063</a>
	8.	V. Raja, V., M.A. Neelakantan, (2021) Evaluation of groundwater quality with health risk assessment of fluoride and nitrate in Virudhunagar district, Tamil Nadu, India, Arabian Journal of Geosciences, 14(1), 52.
	9.	V. Raja, S.K. Sahoo, K. Sreekumar, M.A. Neelakantan, (2021), High background radiation places and spatial distribution of uranium in groundwater of monazite placer deposit in Kanniyakumari district, Tamil Nadu, India, Journal of Radio analytical and Nuclear Chemistry, 328(3), pp. 925– 939.
	10.	M. Theetharappan, M.A. Neelakantan, (2021), A Water-Soluble Schiff Base Turn-on Fluorescent Chemosensor for the Detection of Al <sup>3+</sup> and Zn <sup>2+</sup> Ions at the Nanomolar Level: Application in Live-Cell Imaging, Journal of Fluorescence, Pub Date : 2021-05-29 , DOI: 10.1007/s10895-021-02756-7.
	11.	S. Thalamuthu, M.A. Neelakantan, (2021) Trinuclear nickel(II) amino acid Schiff base complex containing phenolato and acetato bridges: Structural and functional resemblance of urease, Inorganica Chimica Acta, 516 , 120109,
	12.	R.Venkada Lakshmi , V. Raja , C. Puthiya Sekar , M.A. Neelakantan, (2020), Evaluation of Groundwater Quality in Virudhunagar Taluk, Tamil Nadu, India by using Statistical methods and GIS technique, Journal of the Geological Society of India, (Accepted manuscript).
	13.	D.Ganesh, G.Senthilkumar, Laith Ahmed Najam, V.Raja, M.A.Neelakantan and R.Ravisankar (2020) "Uranium quantification in groundwater and health risk from its ingestion in and around Tiruvannamalai,Tamilnadu, India" Radiation Protection Dosimetry., pp: 1-12 DOI: doi:10.1093/rpd/ncaa024
	14.	K.S. Neethu, Jayanthi Eswaran, M. Theetharappan, Nattamai S. P. Bhuvanesh, M.A.Neelakantan, Kaveri M. Velusamy (2019) "Organoruthenium(II) complexes featuring pyrazole-linked Schiff base ligands: Crystal structure, DNA/BSA interactions, cytotoxicity and molecular docking" Applied Organometallic Chemistry., DOI: 10.1002/aoc.4751.
	15.	M.A.Neelakantan, ChithiraivelBalakrishnan, P.Kowsalya, V.Selvarani (2018) "Experimental and theoretical studies on vanadium bromoperoxidase activity of alkyne arm dioxidovanadium(V) complex: Crystal structure, spectral studies, and DFT calculations" Polyhedron., 145, pp.191-199.
	16.	PerumalsamyKowsalya Dr.Nattamai S. P. Bhuvanesh Prof. Dr. Mallanpillai A. Neelakantan (2018) "Chemical Reactivity and Quantifying the Intra- and Intermolecular Interactions in Zwitterionic Compounds" ChemistrySelect., 3,pp. 2045-2052.
	17.	M.A. Neelakantan K. Balamurugan Chithiraivel Balakrishnan L. Subha (2018) "Interaction of Amino Acid Schiff Base Metal Complexes with DNA/BSA Protein and Antibacterial Activity: Spectral Studies, DFT Calculations and Molecular Docking Simulations", Applied Organometallic Chemistry., DOI: 10.1002/aoc.4259.
	18.	Chithiraivel Balakrishnan, M.A. Neelakantan (2018) "Crystal structure and bio-catalytic potential of oxovanadium(IV) schiff base complexes derived from 2-hydroxy-4-(prop-2-yn-1-yloxy)benzaldehyde and alicyclic/ aromatic diamines", Inorganic Chemica Acta., 469, pp.503-514.
	19.	M.A. Neelakantan, C. Balakrishnan, K. Balamurugan, S.S. Mariappan (2018) "Zinc (II) – N2O2 ligation complex-based DNA/protein binder and cleaver having enhanced cytotoxic and phosphatase activity", Applied Organometallic Chemistry., 32, pp.e4400.
	20.	S. Gandhimathi, M. Theetharappan, Nattamai S.P. Bhuvanesh, M.A. Neelakantan (2017) "Crystal structure, theoretical and experimental electronic structure and DNA/BSA protein interactions of nickel(II) N2O2 tetradentate schiff base complexes", Polyhedron., 138, pp. 88-102.
	21.	M.A. Neelakantan, Chithiraivel Balakrishnan, V. Selvarani, M. Theetharappan (2017) " DNA/BSA binding interactions and VHPO mimicking potential of vanadium (IV) complexes: Synthesis, structural characterization and DFT studies", Applied Organometallic Chemistry., 32, e4125.

	22.	Chithiraivel Balakrishnan, M.A.Neelakantan, Sharmila Banerjee (2017) "A zwitterionic pH responsive ESIPT-based fluorescence "Turn-On" Al <sup>3+</sup> ion sensing probe and its bioimaging applications", Sensors and Actuators B: Chemical., 253, pp. 1012-1025.
	23.	Somasundaram Chithiraikumar, Chithiraivel Balakrishnan, M.A.Neelakantan (2017) "Tuning ligand vicinity towards development of " turn-on" fluorescence for cadmium(II) ions under physiological pH and bio-imaging", Sensors and Actuators B: Chemical., 249, pp. 235-245.
	24.	Chithiraivel Balakrishnan, M. Theetharappan ,P. Kowsalya, Satheesh Natarajan, M.A. Neelakantan, S.S. Mariappan (2017) "Biocatalysis, DNA–protein interactions, cytotoxicity and molecular docking of Cu(II), Ni(II), Zn(II) and V(IV) Schiff base complexes", Applied Organometallic Chemistry.,31, e3776.
	25.	S. Chithiraikumar, S. Gandhimathi, M.A. Neelakantan,(2017) "Structural characterization, surface characteristics and non covalent interactions of a heterocyclic Schiff base: Evaluation of antioxidant potential by UV-visible spectroscopy and DFT",Journal of Molecular Structure.,1137, pp.569-580.
	26.	S. Gandhimathi,C.Balakrishnan, M.Theetharappan, M.A. Neelakantan,R. Venkataraman (2017) "Noncovalent interactions from electron density topology and solvent effects on spectral properties of Schiff bases", Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy., 175, pp.134-144.
	27.	M. Theetharappan, L. Subha, C. Balakrishnan, M.A. Neelakantan (2016), Binding interactions of mixed ligand copper(II) amino acid Schiff base complexes with biological targets: Spectroscopic evaluation and molecular docking", Applied Organometallic Chemistry.,31, e3713.
	28.	Chithiraivel Balakrishnan, Satheesh Natarajan and M. A. Neelakantan,(2016), Exploration of biological activities of alkyne arms containing Cu(II) and Ni(II) complexes: syntheses,crystal structures and DFT calculations", RSC Advances., 6, pp. 102482.
	29.	B. Annaraj, C. Balakrishnan, M.A. Neelakantan (2016) "Synthesis, structure information, DNA/BSA binding affinity and in vitro cytotoxic studies of mixed ligand copper(II) complexes containing a phenylalanine derivative and diimine co-ligands", J. Photochem. Photobiol., B, 160, pp. 278–291.
	30.	S. Gandhimathi, C. Balakrishnan, R. Venkataraman, M.A. Neelakantan (2016) "Crystal structure, solvatochromism and estimation of ground and excited state dipole moments of an allyl arm containing Schiff base: Experimental and theoretical calculations", J. Mol. Liquids, 219, pp. 239-250.
	31.	S. Chithiraikumar, M.A. Neelakantan (2016) "Experimental and theoretical investigation of a pyridine containing Schiff base: Hirshfeld analysis of crystal structure, interaction with biomolecules and cytotoxicity" J. Mol. Struct. 1108, pp. 654-666.
	32.	L. Subha, C. Balakrishnan, S. Natarajan, M. Theetharappan, B. Subramanian, M.A. Neelakantan (2016) "Water soluble and efficient amino acid Schiff base receptor for reversible fluorescence turn-on detection of Zn <sup>2+</sup> ions: Quantum chemical calculations and detection of bacteria" Spectrochim. Acta - Part A: Molecular and Biomolecular Spectroscopy, 153, pp. 249-256.
	33.	B. Annaraj, L. Mitu, M.A. Neelakantan (2016) "Synthesis and crystal structure of imidazole containing amide as a turn on fluorescent probe for nickel ion in aqueous media. An experimental and theoretical investigation" J. Mol. Struct. 1104, 21847, pp. 1-6.
	34.	B. Annaraj, M.A. Neelakantan, (2015), "Synthesis, crystal structure, spectral characterization and biological exploration of water soluble Cu(II) complexes of vitamin B6 derivative" Eur. J. Med. Chem.,102, pp. 1–8.
	35.	C. Balakrishnan, M. Theetharappan, S. Natarajan, S. Thalamuthu, M.A. Neelakantan (2015) "Fluorescence response of a thiazolidine carboxylic acid derivative for the selective and nanomolar detection of Zn(II) ions: Quantum chemical calculations and application in real samples" RSC Advances, 5, pp. 105453-105463.
	36.	C. Balakrishnan, L. Subha, M.A. Neelakantan, S.S. Mariappan (2015) "Synthesis, spectroscopy, X- ray crystallography, DFT calculations, DNA binding and molecular dockingof a propargyl arms containing Schiff base" Spectrochim. Acta - Part A: Molecular and Biomolecular Spectroscopy,

		150, pp. 671-681.
	37.	V. Latha, C. Balakrishnan, M.A. Neelakantan, (2015), "Synthesis, crystal structure and DFT studies of a dual fluorescent ketamine: Structural changes in the ground and excited states". <i>J. Mol. Struct.</i> , 1092, pp. 63–71.
	38.	B. Annaraj, M. A. Neelakantan, (2014), "Water-soluble pyridine-based colorimetric Chemosensor for naked eye detection of silver ions: design, synthesis, spectral and theoretical investigation". <i>Anal. Methods</i> , 6, pp. 9610-9615.
	39.	B. Annaraj, Sudip Pan, M.A. Neelakantan, P.K. Chattaraj, (2014), "DFT study on the ground state and excited state intramolecular proton transfer of propargyl arm containing Schiff bases in solution and gas phases", <i>Computational and Theoretical Chemistry</i> , 1028, pp 19–26.
	40.	L. Subha, C. Balakrishnan, S. Thalamuthu, M.A. Neelakantan, (2015), "Mixed ligand Cu(II) complexes containing o-vanillin-l-tryptophan Schiff base and heterocyclic nitrogen bases: synthesis, structural characterization, and biological properties". <i>J. Coord. Chem.</i> , 68, pp. 1021-1039.
	41.	V Latha, B Annaraj, M A Neelakantan, (2014), "ESIPT inspired dual fluorescent probe (Z)-3-((4-(4-aminobenzyl) phenyl) amino)-1,3-diphenylprop-2-en-1-one: Experimental and DFT based approach to photophysical properties". <i>Spectrochim. Acta A</i> , 133, pp. 44–53.
	42.	S. Thalamuthu, B. Annaraj M.A. Neelakantan, (2014), A systematic investigation on biological activities of a novel double zwitterionic Schiff base Cu(II) complex, <i>Spectrochim. Acta Part A</i> , 118, pp120-129.
	43.	P. Jeslin Kanaga Inba, B. Annaraj, S. Thalamuthu, M.A. Neelakantan, (2013), "Cu(II), Ni(II) and Zn(II) complexes of salan type ligand containing ester groups: Synthesis, characterization, electrochemical properties and invitro biological activities", <i>Bioionorg. Chem. Appl.</i> , 2013.
	44.	S. Thalamuthu, B. Annaraj, S. Vasudevan, and S. Sengupta, M.A. Neelakantan, (2013) "DNA binding, nuclease and colon cancer cell inhibitory activity of Cu(II) complex of a thiazolidine-4-carboxylic acid derivative", <i>J. Coord. Chem.</i> , 66, pp. 1805-1820.
	45.	V. Selvarani, B. Annaraj, M.A. Neelakantan, S. Sundaramoorthy, D. Velmurugan (2013) "Synthesis, characterization and crystal structures of copper(II) and nickel(II)" complexes of propargyl arm containing N2O2 ligands: Antimicrobial activity and DNA binding, <i>Polyhedron</i> , 54, pp. 74-83.
	46.	P. Jeslin Kanaga Inba, B. Annaraj, S. Thalamuthu, M.A. Neelakantan, (2013) "Salen, reduced salen and N-alkylated salen type compounds: Spectral characterization, theoretical investigation and biological studies" <i>Spectrochim. Acta Part A</i> , 104, pp. 300–309.
	47.	V. Selvarani, M.A. Neelakantan, V. Silambarasan, D. Velmurugan (2013) "2-Hydroxy-4-(prop-2-ynyoxy)benzaldehyde" <i>Acta Cryst.</i> , E69, pp. o64.
	48.	M. Esakkiammal, V. Selvarani, M.A. Neelakantan, V. Silambarasan, D. Velmurugan (2012) "2,4-Bis[(prop-2-ynyl)oxy]benzl-dehyde" <i>ActaCryst.</i> , E68, pp.o2465.
	49.	V. Selvarani, B. Annaraj, M.A. Neelakantan, S. Sundaramoorthy, D. Velmurugan (2012) "Synthesis and crystal structure of hydroxyacetophenone Schiff bases containing propargyl moiety: Solvent effects on UV-visible spectra" <i>Spectrochimica Acta Part A</i> , 91, pp. 329– 337.
	50.	M.A. Neelakantan, M. Sundaram, M.S. Nair (2011) "Solution Equilibria of Ni (II), Cu (II) and Zn(II) Complexes Involving Pyridoxine and Imidazole Containing ligands: pH metric, Spectral, Electrochemical, and Biological Studies" <i>J. Chem. Engg. Data</i> , 56, pp.2527–2535.
	51.	M.A. Neelakantan, M. Sundaram, M.S. Nair (2011) "Synthesis, Spectral and thermal studies of some transition metal mixed ligand complexes: Modeling of equilibrium composition and biological activity" <i>Spectrochim. Acta Part A</i> , 79, pp. 1693-1703.
	52.	A.C. Chamayou, M.A. Neelakantan, S.Thalamuthu, C. Janiak, (2011) "The first vitamin B6 zinc complex, pyridoxinato-zinc acetate: A 1D coordination polymer with polar packing through strong interchain hydrogen bonding", <i>Inorg. Chim. Acta.</i> , 365, pp.447-450.
	53.	F. Rusal Raj, M.A.Neelakantan, (2012), "Synthesis, Spectral, Electrochemical and Biological studies of VO(II) Schiff base complexes" <i>World Academy of Science, Engineering and Technology</i> , 64, pp.1244-1248.

	54.	B.M. Draskovic, G.A. Bogdanovic, M.A. Neelakantan, A.C. Chamayou, S.Thalamuthu, Y.S. Avaghut, J.S. Gunne, Sharmila Banerjee, C. Janiak (2010) "N-o-Vanillidene-L-histidine: Experimental charge density analysis of a double zwitterionic amino acid Schiff-base compound" Crystal Growth & Design, 10, pp.1665-1667.
	55.	M.A. Neelakantan, M. Sundaram, S. Thalamuthu, M.S. Nair, (2010) "Synthesis, characterization, thermal and redox behavior and biological activity of Ni(II), Cu(II) and Zn(II) complexes containing Pyridoxine and Imidazole moieties", J. Coord. Chem., 63, pp. 1969 -1985.
	56.	M.A. Neelakantan, S.S. Mariappan, J. Dharmaraja, K. Muthukumaran (2010) "pH metric, spectroscopic and thermodynamic study of complexation behaviour of 2-aminobenzthiazole with Ni(II) in presence of amino acids". Acta Chim. Slovenica, 57, pp. 198-205.
	57.	M.A. Neelakantan, C. Puthiyasekar, S. Poongothai (2010) "Heavy Metal Contamination in Bore Water due to Industrial Pollution and Polluted and Non Polluted Sea Water Intrusion in Thoothukudi and Tirunelveli of South Tamil Nadu, India Bull. Environ. Contam. Toxicol., 85, pp. 598-601.
	58.	M.A. Neelakantan, C. Puthiyasekar, S. Poongothai, (2009) "Impact of industrial pollution on the physicochemical characteristics of sea water in Thoothukudi coastal area". Rasayan J. Chem., 4, pp.912-919.
	59.	M.A. Neelakantan, K. Sirajudeen, P.T. Arasu, C. Puthiyasekar, S. Poongothai (2009) "Correlation study on physicochemical parameters of ground water in and around coastal area, Tirunelveli district" Int. J. Chem. Sci., 7, pp.1421-1426.
	60.	M.A. Neelakantan, and P. T. Arasu, S. Hema (2007) "Physico-chemical analysis of Tamirabarani river water in South area, Indian J. Sci. & Technol., 1,pp. 1-7.
	61.	M.A. Neelakantan, M. Esakkiammal, S.S. Mariappan, J. Dharmaraj, T. Jeyakumar (2010), "Synthesis, characterization and biocidal activities of some Schiff base metal complexes". Indian J. Pharm. Sci., 72, pp. 16-222.
	62.	M.A. Neelakantan, F. Rusal Raj, J. Dharmaraja, S. Johnson Raja, T. Jeyakumar, M.S. Pillai (2008) "Spectral characterization, cyclic voltammetry, morphology, biological activities and DNA cleaving studies of amino acid Schiff base metal(II) complexes." Spectrochim. Acta Part A, 71, pp.1599-1609.
	63.	M.A. Neelakantan, S.S. Marriappan, J. Dharmaraja, T. Jeyakumar, K. Muthukumaran (2008). "Spectral, XRD, SEM and biological activities of transition metal complexes of polydentate ligands containing thiazole moiety." Spectrochim. Acta Part A, 71, pp.628-635.
	64.	M.A. Neelakantan, F. Russal Raj, and M. S. Pillai (2008) "Spectroscopy, electrochemistry and biocidal activity of amino acid Schiff base metal complexes" J. Indian Chem. Soc., 85, pp. 100-104.
	65.	N. Raman, S. Thalamuthu, J. D. Raja, M.A. Neelakantan, Sharmila Banerjee (2007). "DNA Cleavage and Antimicrobial studies on Transition metal (II) complexes of 4-aminoantipyrine derivative", J. Chil. Chem. Soc., 52, pp.1314-1318.
	66.	M.S. Nair, S. Suda Kumari, M.A. Neelakantan, (2007). "Studies on some novel Schiff base complexes in solution and solid state. "J. Coord. Chem., 60, pp. 1291-1302.
	67.	S. Karthikeyan, M.A. Neelakantan, (2006) "Characteristics of Electroless Ni-P-graphite composite coatings", Electroplating and finishing 4, pp.1-4.
	68.	M.A. Neelakantan, M.S. Nair (2004) "Studies on Nickel(II)-pyridoxamine-imidazole containing Mixed Ligand Complex Systems", Iran. J. Chem. & Chem. Eng., 23, pp. 97-102.
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19.	Papers Presented in National and International Conferences	: 95
20.	<b>Any other information</b>	
	• Board of Studies Member for Engineering Chemistry Manonmaniam Sundaranar University, Tirunelveli	: 2002
	• Board of Studies Member for Chemistry Anna University, Chennai	: 2007
	• Board of Studies Member for Chemistry Anna University, Chennai	: 2018
	• Chair Person, Board of Studies (Science & Humanities) National Engineering College (Autonomous)	: 2012, 2014,

	•	Associate warden-NEC Boys Hostel	:	1999-2010
	•	No. of Books Published	:	2