

CURRICULUM VITAE

Dr. SELVA GANAPATHY M
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RG Score: 20; h index: 9; i10 index: 7 Citations: 198

OBJECTIVE

Aim to be associated with a progressive organization that gives me to update my knowledge and skills in accordance with latest trend and be a part of team and dynamically work towards the growth of the organization and satisfaction thereof.

PROFESSIONAL SUMMARY

- ✓ Ph. D. in Chemistry having eight (8) years' experience in teaching with good knowledge in the area of Analytical chemistry and Bio-molecular chemistry for B.Sc. & B.E. graduates at various Institutes. 10 years of research experience with various physico-chemical and electro-analytical techniques. Twenty research articles published in Scopus/SCI indexed journals along with ten International/ National conferences presented and participated.
- ✓ Research Excellence Award received from Institute of Scholars (2022)
- ✓ Administrative works like Academic calendar and syllabus preparation, Admission, Purchase and Commission of equipment for different labs as per AICTE/University norms, Examinations, etc.,
- ✓ Research Coordinator in ACS College of Engineering from 2017-2021.
- ✓ Experience in NBA/NAAC Accreditation Process and Documentation. Participated and contributed in the selection of materials and supplies for theoretical and practical curriculum.
- ✓ Youth Red Cross & RRC Co-ordinator in Kodaikanal Institute of Technology, Kodaikanal.

EDUCATIONAL QUALIFICATIONS

☞ *Doctor of Philosophy* in CHEMISTRY (August 2015) at VHNSN College (Affiliated to Madurai Kamaraj University), Virudhunagar, India.

Thesis Title: ***Sulphurated Amino Acid based Transition Metal Complexes: Synthesis, Characterization and DNA Interaction Studies***

☞ **Master of Philosophy** in CHEMISTRY, (April 2011) at V.H.N.S.N. College (Madurai Kamaraj University), Virudhunagar, India. (Securing **80 %**)

Dissertation Title: *Design, synthesis, chemical nuclease activity and antimicrobial evaluation of Cu(II), Co(II), Ni(II) and Zn(II) metal complexes containing tridentate Schiff base*

☞ **Master of Science** (special) in CHEMISTRY, (April 2010) at Thiagarajar College (Affiliated to Madurai Kamaraj University), Madurai, India. (Securing **68.76 %**)

Dissertation Title: *Characterization of LiCoO₂ synthesized using Template assisted method*

☞ **Bachelor of Science** in CHEMISTRY, (April 2008) at V.V.V. College for Women (Affiliated to Madurai Kamaraj University), Virudhunagar, India. (Securing **72.72 %**)

☞ **Higher Secondary** (March 2005) at Perunthalaivar Kamarajar Higher secondary School, Meenakshipuram, Rajapalayam, Virudhunagar, India. (Securing **81.66 %**)

☞ **Secondary Education** (March 2003) at Perunthalaivar Kamarajar Higher Secondary School, Meenakshipuram, Rajapalayam, Virudhunagar, India. (Securing **92 %**)

PROFESSIONAL EXPERIENCE

- ✓ **Assistant Professor in Chemistry** (Aug 2021 – Till date)
Mount Carmel College, Vasanth Nagar, Bengaluru-52, Karnataka.
- ✓ **Associate Professor in Chemistry** (Aug 2017 – July 2021)
ACS College of Engineering, Kambipura, Bengaluru-74, Karnataka.
- ✓ **Assistant Professor in Chemistry** (July 2016 – May 2017)
VelTech Dr.RR & Dr.SR University, Avadi, Chennai-62, Tamilnadu.
- ✓ **Assistant Professor in Chemistry** (July 2015 – July 2016)
Dr. MGR Educational and Research Institute, Maduravoyal, Chennai-95, Tamilnadu.
- ✓ **Assistant Professor in Chemistry** (August 2014 – June 2015)
Kodaikanal Institute of Technology, Kodaikanal, Tamilnadu.

PROFESSIONAL ACIVITIES

- **Indian Patent** filed on 26/04/2022, entitled *Nanocarbon-containing biofertilizer composition and preparation method thereof* - Application No. 202241024552; Published on: 13/05/2022.
- **Research Excellence Award** from InSc International Publishers 2022.
- **Editor** for the Book series of *Futuristic Trends in Chemical, Material Sciences & Nano Technology* Series Volume I under Iterative International Publishers (IIP), USA & India.

- Selected as one of the **Most Promising Educators in Higher Education across India" for the year 2019** by uLektz Learning Solutions.

MEMBERSHIP IN PROFESSIONAL BODIES

- Professional Member of InSc International Publishers
- Member of ACS Community – 32912177
- Member of Research and Scientific Innovation Society
- Fellow Member of Scholars Academic and Scientific Society

REVIEWER FOR THE FOLLOWING JOURNALS

- Reviewer of InSc International Publishers
- Reviewer of International Journal of Research & Scientific Innovation (IJRSI)
- Reviewer of Advances in Science, Technology and Engineering Systems Journal (ASTESJ)
- Reviewer of International Journal of Engineering & Technology
- Reviewer of International Journal of Research and Innovation in Applied Science (IJRIAS)

LIST OF PAPERS PUBLISHED

- ✍ Fabricating BiOCl/BiVO₄ nanosheets wrapped in a graphene oxide heterojunction composite for detection of an antihistamine in biological samples, Balanurugan Thirumalraj, Dhayanantha Prabu Jaihindh, MSP Sudhakaran, Muthusamy Selvaganapathy, Akram Alfantazi, Kyungjung Kwon, *Environmental Research (In Press)*
- ✍ DNA interaction perspectives of sulphur containing Knoevenagel condensed copper(II) complexes: Molecular docking, DFT, anti-biogram and in silico assessment, Michael Samuel, Rajamanickam Rajasekar, Porkodi Jeyaraman, Selvaganapathy Muthusamy, Velmurugan Muniyandi, Natarajan Raman*, *Inorg. Chim. Acta.* 533 (2022) 120783.
- ✍ Simultaneous Electrochemical Determination of Antibiotic and Procardial Drug with Assistance of Needle Shaped Perovskite Structure Barium Stannate, S.M. Chen*, B. Muthukutty, A. Krishnapandi, T.W. Chen, X. Liu, **M. Selvaganapathy**, *Microchim. Acta* 188 (2021) 19.
- ✍ Bismuth molybdate incorporated functionalized carbon nanofiber as an electrocatalytic tool for the pinpoint detection organic pollutant in life samples, A. Krishnapandi, B. Muthukutty, T.A. Kumaravelu, J.S. Huang, **M. Selvaganapathy**, S.M. Chen*, *Ecotoxicol. Environ. Saf.*, 209 (2021) 111828.

- ✍ One pot Engineering of Novel Cashewnut like Cobalt Tungstate (CoWO₄) as a Dynamic Electrocatalyst for the Selective Detection of Promethazine Hydrochloride, A. Krishnapandi, B. Muthukutty, S.M. Chen*, **M. Selvaganapathy**, *Microchem. J.*, 159 (2020) 105381.
- ✍ Ultrasonication–Dry-based Synthesis of Gold Nanoparticle-Supported CuFe on rGO Nanosheets for Competent Detection of Biological Molecules, V. Elayappan, **M. Selaganapathy**, G. Mayakrishnan, R. Balasubramaniam, Y.S. Lee, H.S. Noh, D. Kwon, M.M. Mussa, H. Lee*, *Appl. Surf. Sci.*, 531 (2020) 147415.
- ✍ Pharmacological Activity of a Few Transition Metal Complexes: A Short Review, **M. Selvaganapathy**, N. Raman*, *J. Chem Biol. Ther.* 2 (2016) 1-17.
- ✍ Exploring the photochemosensitivity by novel cysteine-based mixed ligand complexes, **M. Selvaganapathy**, N. Pravin, V. Muniyandi, M. Nazeer, N. Raman*, *J. Photochem. Photobiol. B* 157 (2016) 77-88.
- ✍ DNA, the biopolymer as a target material for metalloinsertors: From chemistry to preclinical implications, N. Raman*, **M. Selvaganapathy**, S. Sudharsan, *Mater. Sci. Eng. C* 53 (2015) 239-251.
- ✍ Photo biological activation of NSO donor mixed-ligand complexes: *In vivo* and preclinical perspectives, **M. Selvaganapathy**, N. Pravin, K. Pothiraj, N. Raman*, *J. Photochem. Photobiol. B* 138 (2014) 256-272.
- ✍ Anomalous chemosensitivity of SOD mimetic sulphurated amino acid-phen complexes: Synthesis, characterization and DNA cleavage efficacy, N. Raman*, **M. Selvaganapathy**, J. Thamba, *Monatsh. Chem.* 145 (2014) 1417-1430.
- ✍ Efficient interrupting skills of amino acid metallointercalators with DNA at physiological pH: Evaluation of biological assays, N. Raman*, **M. Selvaganapathy**, R. Srinivasan, *Spectrochim. Acta Part A* 127 (2014) 185–195.
- ✍ Screening of biological response to L-methionine based complexes as antitumor agents, N. Raman*, **M. Selvaganapathy**, R. Senthilkumar, *Inorg. Chem. Commun.* 39 (2014) 99–105.
- ✍ Chelating Effect of DNA interaction involving antioxidative 4-aminoantipyrine incorporating mixed ligand complexes having alpha-amino acid as co-ligand, N. Raman*, A. Sakthivel, **M. Selvaganapathy**, L. Mitu *J. Mol. Struct.* 1060 (2014) 63–74.
- ✍ Pyrazolone incorporating amino acid metallointercalators as effective DNA targets: Synthesis and in vitro biocidal evaluation, N. Raman*, **M. Selvaganapathy**, *Inorg. Chem. Commun.* 37 (2013) 114–120.
- ✍ DNA binding mode of novel tetradentate amino acid based 2-hydroxybenzylidene-4-aminoantipyrine complexes, N. Raman*, S. Sobha, **M. Selvaganapathy**, R. Mahalakshmi, *Spectrochim. Acta Part A* 96 (2012) 698–708.
- ✍ Probing the DNA-binding behavior of tryptophan incorporating mixed-ligand complexes, N. Raman*, S. Sobha, **M. Selvaganapathy**, *Monatsh. Chem.* 143 (2012) 1487–1495.

✍ Chelating behavior and biocidal efficiency of tryptophan based mixed-ligand complexes, **M. Selvaganapathy**, N. Raman*, *Inorg. Chem. Commun.* 20 (2012) 238–242.

✍ Cu(II) and Zn(II) complexes with unsymmetrical tetradentate Schiff base ligands: Synthesis, spectral characterization, antimicrobial assay and DNA binding property, N. Raman*, A. Selvan, R. Mahalakshmi, **M. Selvaganapathy**, *J. Iran. Chem. Res.* 5 (2012) 197-212 ISSN 2008-1030

✍ Probing the DNA binding mode of transition metal based biologically active compounds: Validation by spectroscopic methods, N. Raman*, S. Sobha, **M. Selvaganapathy**, *Int. J. Pharm. Bio. Sci.* 3 (2012) 251-268. ISSN 0975-6299.

CONFERENCES / SEMINARS / WORKSHOP

International Conference	: 10	National Conference	: 5
International FDP	: 4	National FDP	: 8
International Seminar	: 3	National Seminar	: 10
International Webinar	: 5	National Webinar	: 12
International Workshop	: 2	National Workshop	: 5

RESEARCH INTEREST

- amino acid based mixed-ligand complexes of Ru(II) and Ru(III) containing β -diketone, Schiff base or thiosemicarbazones
- Electrochemistry & Coordination chemistry of Ni(II), Zn(II), Ru(II), Cu(II) and Co(II)
- DNA binding, photocleavage and biological studies of metal complexes
- pharmacological studies like, *In vivo* antitumor, anti-inflammatory, anti-convulsant activity and analgesia activity
- Development of carbon nanofiber and nano catalytic systems

PERSONAL PROFILE

Name	Dr. SELVA GANAPATHY M
Father's Name	Mr. R. Muthusamy
Mother's Name	Mrs. M. Thangamari
Sex	Female
Date of Birth	05/08/1987
Marital Status	Married
Husband Name & Qualification	Mr.J.Prabaharan M.E., – Computer Science and Engineering
Profession	Assistant Professor in RajaRajeswari College of Engineering, Bangalore.
Nationality	India

Mother tongue	Tamil
Languages Known	English, Kannada and Tamil
Permanent Address	1/10 North Street, C. Keeranur, Vriddachalam (TK), Cuddalur (DT) - 606110, Tamilnadu, India.

DECLARATION

I, here by, declare that all the above furnished details are true to the best of my knowledge and belief.



Place: Bengaluru

Date: 18-05-2022

M. SELVAGANAPATHY

REFEREES

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