

CURRICULUM VITAE



1. **Name** : **Dr. B. Narayana**
2. **Designation** : **Professor of Chemistry**
- Address : Mangalore University
Mangalagangothri - 574 199, Karnataka, INDIA
Phone: +91-(0)824-2287262(O), +91-9448408909 (M)
Fax : +91-(0)824-2287367(O)
E.mail : nbadiadka@gmail.com
3. **Date and Place of Birth** : **5th March, Badiadka**

4. Academic Qualifications Starting from First University Degree

Degree	Name of the Institution	Study Period	Marks (%)	Remarks
B.Sc.	Calicut University	1978-81	75.9	FirstClass
M.Sc.	Calicut University	1981-83	70.6	First Class & Third Rank
Ph.D.	Mangalore University	1984-89		Research Area: INORGANIC CHEMISTRY

5. Teaching Experience

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|--------------------------------------|----------------------|------------------------|
| 1. Lecturer in Chemistry (Temporary) | Mangalore University | September 1985 onwards |
| 2. Lecturer in Chemistry | Mangalore University | June 1988 onwards |
| 3. Senior Lecturer | Mangalore University | June 1993 onwards |
| 4. Reader/ Associate Professor | Mangalore University | June 1998 onwards |
| 5. Professor | Mangalore University | June 2006 onwards |

6. Citations, Awards and Administrative Experiences

- Member of **Syndicate, Academic Council** and **Finance Committee** of Mangalore University.
- Receipient of **Best Teacher Award**, 2013-14- Mangalore University (First Award of MU)
- Registrar** (Evaluation), Mangalore University – From August 2012 to December 2015.
- Finance Officer**, Mangalore University- From 31 March 2020 to 7th February 2022

5. Chairman, Department of Chemistry-January 2012 to August 2012.
6. Recipient of One time Basic Science Research Grant of Rs.7.0 lakhs from UGC, 2011-12.
7. Secretary, International Conference-ICRAIEST-2009.
8. Founder Coordinator, M.Sc. Course in Industrial Chemistry-June 2009 to June 2012.
9. Secretary, International Conference on Frontiers in Chemical Research, ICFCR-2008.
10. UGC Expert Committee member for the evaluation of Conference and Project Proposals.
11. Member of B O A at Pondicherry, Manonmaniam Sundaranar and Kuvempu Universities.
12. Name is cited in Marquis Who's Who - in the World, Vol. No. 14, 15 and 16.
13. Name is cited in the 26th ed. of Dictionary of International Biography (U.K.)
14. Name is cited in Asia/Pacific - "Who's Who" Vol. No.1, 152, 1997.
15. Name is cited in Reference Asia, Vol. 9, 1995, p.368.
16. Name is cited in Indo-Arab Who's Who. Vol. 1 1995.
17. Name is cited in LEARNED ASIA - Educationists Who's Who Vol. No. 2, 1996.
18. Name is cited in Indo-American 'Who's who' Vol.No.1, 1994.
19. Member of the New York Academy of Sciences, New York, USA.
20. Member of the Sectional Committee of the Sec. of Mat. Sci.for 1991-92(79th session of the ISCA).
21. Life Member of the Indian Science Congress Association.
22. Life Member of IANCAS, BARC, Bombay.
23. Life Member of the Indian Council of Chemists.
24. Life Member of the Indian Chemical Society.
25. Warden University Hostel for Men - Oct. 1990 to Dec. 1995.
26. Mangalore University Post-Graduate Research Fellow (1984- 88).
27. Secured **Third Rank** in M.Sc. (**Calicut University**).
28. Fr. Gabriel **Gold Medal** for securing highest mark in M.Sc. (Final) Chemistry.
29. Prof. A.C. Joseph Scholarship for securing highest marks in M.Sc. (Prev.) Chemistry.

7. Research Experience

A. Total Experience

Department of Studies in Chemistry	May 1984 onwards
Mangalore University, Mangalagangothri	(Above Thirty Five Years)

B. Ph.D. (1984-1989)

Title of PhD Thesis	: Studies on Heterocyclic Thiols and Thiones as Complexing Agents and Analytical Reagents.
Thesis Supervisor	: Prof. M.R. Gajendragad Former Vice-Chancellor, Kuvempu University
Institution	: Department of Chemistry, Mangalore University

C. PDF: Commonwealth Fellowship (1999-2000)

Title : Synthesis and Characterisation of Metallocene Derivatives Containing Schiff Base Ligands and Some Lithium Derivatives of Schiff Bases
Supervisor : Dr. Kenneth W. Henderson
Institution : Department of Pure and Applied Chemistry,
University of Strathclyde, Glasgow G1 1XL, U.K.

D. Research Areas of Interest

- i. Analytical Chemistry : *Spectrophotometric Studies on Drugs and Envir. Pollutants*
- ii. Envir. Radioactivity : *Environmental Radioactivity-Tritium and ¹⁴C Analyses*
- iii. Organic Synthesis : *Synthetic methods- New compounds-NLO Materials*
- iv. Structural Studies : *Single Crystal X-ray diffraction Studies of Small Molecules*

F. Research Publications

Papers published in international journals : **797**
Papers published in national journals : **55**
Papers presented in conferences : **206**
h-Index Scopus : **33(Citations: Above 6000)**
Google Scholar : **37 (Citations : Above 7600)**

G. Patents

Indian Patent Application no.	Title	Date of Filing	Inventors
202141005140	Citric Acid Cross Linked Carboxymethyl Cellulose-Pullulan Copolymer and Uses Thereof	2021/02/06	• DR. KABIRU BELLO • PROF. BALLADKA KUNHANA SAROJINI • PROF. BADIADKA NARAYANA • DR. ARUN KRISHNA KODOTH • DR. AVINASH KUNDADKA KUDVA
202141005142	Pyrazoline Derivative Doped UV Emissive Material and Uses Thereof	2021/02/06	• MRS. JAYA PAI • PROF. BALLADKA KUNHANA SAROJINI • PROF. BADIADKA NARAYANA
202141005143	Fabrication of Al doped Poly (Riboflavin) Modified Sensor for the Simultaneous Determination of Indigo Carmine, Tartrazine and Hydroquinone	2021/02/06	• DR. J. G. MANJUNATHA • GIRISH TIGARI • RARIL C • PROF. BADIADKA NARAYANA

H. Citation

Prof. B. Narayana, Department of Chemistry, Mangalore University, has been Ranked as World Top 2% Scientist in the Field of Energy and Analytical Chemistry (Rank#77812 in Singleyr 2020 and Rank #183542 in Author Career 2020) Updated in Science-wide author databases of standardized citation indicators. Prepared and published by Elsevier (Baas, Jeroen; Boyack, Kevin; Ioannidis, John P.A. (2021), "August 2021 data-update for "Updated science-wide author databases of standardized citation indicators"", Mendeley Data, V3, doi: 10.17632/btchxktzyw.3)

<https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/3>

Authors Singleyr-2020							
176442	Lucantoni, David	DLT Consulting	usa	26	1979	2003	2,99,757
176443	Narayana, B.	Mangalore University	ind	782	1975	2021	2,99,760
176444	Farquhar, Robert W.	KinetX Aerospace	usa	101	1967	2015	2,99,770
176445	Baggs, Judith Gedney	Oregon Health & Science	usa	73	1986	2021	2,99,790

8. PhD's Guided

Sl.No.	Name	Title	Awarded/ Submitted
01.	Dr. B. Muralidhara Rao	Studies on sulphur and nitrogen donor ligands as complexing agents and masking reagents.	26-03-1996
02.	Dr. Biju Mathew (CSIR, SRF)	Studies on the analytical applications and complexing structure of N, O and S donor ligands.	26-12-1997
03.	Dr. B. Ramachandra	Studies on N, O and S donor ligands as complexing agents, masking and gravimetric reagents.	26-06-1998
04.	Dr. Abraham Joseph	Studies on O, N and S donor ligands as complexing agents, analytical reagents and corrosion inhibitors.	04-11-2000
05.	Dr. K. Subramanya Bhat	Studies on the complexing and analytical structure of sulfur, nitrogen and oxygen donor ligands reagents.	13-12-2000
06.	Dr. C.H. R. Nambiar	Studies on some sulphur and nitrogen donor ligands in complexometry and spectrophotometry.	21-10-2002
07.	Dr. Ronald A. Nazareth	Analytical investigations with oxygen, nitrogen and sulphur donor ligands.	10-01-2003

08.	Dr. N.V. Sreekumar	Studies on new reagents for titrimetric, spectrophotometric determination of pollutants and corrosion inhibitor for metals in service.	30-01-2003
09.	Dr. N.G. Bhat	Studies on the complexing structure and analytical application of nitrogen, oxygen and sulfur donor heterocyclic ligands and allied reagents.	19-11-2003
10.	Dr. Tom Cherian	Studies on new reagents for the spectrophotometric and complexometric determinations of metal ions and anions.	20-07-2006
11.	Dr. M. Mathew	Studies on new reagents for the spectrophotometric determination of metal ions, anions and synthesis of some liquid crystalline materials.	01-12-2006
12.	Dr. K.K. Vijaya Raj	Synthesis and characterization of some new bioactive heterocyclic derivatives.	15-06-2007
13.	Dr. B.V. Ashalatha	Synthesis, characterization and applications of heterocyclic compounds.	29-11-2007
14.	Dr.T.V. Srividya	Spectrophotometric determinations and single crystal X-ray studies of some drugs and allied compounds.	31-10-2009
15.	Dr. Chand Pasha	Studies on new reagents for the spectrophotometric determination of anions, metal ions and drugs.	31-10-2009
16.	Dr. K. Sunil	Studies on new reagents for the spectrophotometric determination of metal ions and anions, and single crystal X-ray crystallography.	08-01-2010
17.	Dr. K. Veena	Spectrophotometric determination of some bioactive compounds and single crystal X-ray structures of chalcones.	02-08-2010
18.	Dr. S. Samshuddin	Synthesis and structural studies of some new nitrogen containing heterocyclic compounds	20-04-2013
19.	Dr. Divya N. Shetty	Studies on new reagents for the spectrophotometric determinations of some drugs and their intermediates	21-09-2013
20.	Dr. K. Divya	New Spectrophotometric Assay for the Determination of Some Selected Drugs in Pure and Dosage Forms	01-04-2015
21.	Dr. Prakash S. Nayak	Synthesis, Structural and Biological studies on Nitrogen containing heterocyclic compounds and Their Intermediates	28-05-2015
22.	Dr. R. Srinivasan	Synthesis, Biological and Structural Studies of Some New Aryl, Heteroaryl Piperidines and Spiro Cyclic Compounds	23-11-2016
23.	Dr. Sapna Kumari INSPIRE Fellow	Synthesis, structural study and pharmacological evaluation of some new heterocyclic compounds	16-02-2017
24.	Mrs. Nasrin Banu Shaikh Ismail	Development of visible spectrophotometric methods for the assay of some drugs in bulk and formulations	21-12-2017

25.	Mrs. Vinutha V. Salian	Synthesis and structural studies on cyclic derivatives derived from chalcones	04-10-2018
26.	Mrs. Subbulakshmi N. Karanth	Structural and biological evaluation of some N,S-containing heterocyclic nutraceuticals	04-04-2019
27.	Mrs. Jayashree A	Synthesis and characterization of heterocyclic... applications	20-05-2021
28.	Mr. Srinivas S Kamath	Standardisation of methods for long term continuous sampling of air and water for ^3H measurement in the vicinity of PHWR nuclear power plant	20-05-2021
29.	Mrs. Likhitha U.	Studies on cocrystals and polymorphs of Pharmaceutically important drugs and Related compounds	30-12-2022 (PhD- Industrial Chemistry)
30.	Mr. Harisha, K.K.	Biosynthesis and Characterization of Metal Nanoparticles for Colorimetric Sensor Applications	23-03-2022 (PhD-Physics)
31	Mr. Suresh N Kodlady	Design and Development of New Color Sensors for the Determination of Anions	29-03-2022
32	Mr. Gauthama B. U.	Synthesis and Studies on Novel Reagents for the Spectrophotometric Determination of Some Biologically Significant Metal Ions and Anions	Submitted PhD thesis -Nov 2021

9. Research Scholars Working

S. No.	Name	Title	Ongoing
01.	Mr. Basappa Harijan	Synthesis and Characterization silver nanocomposites	Registered for PhD(Physics)
02.	Ms. Srijana, P. J.	Preparation and Characterization Cocrystals of Pharma Importance	Registered for PhD
03.	Ms. Sreevani, K	Studies on naturally Occurring Polymers and Their Applications to Dental Implants	Registered for PhD
04.	Mr. Satyanarayana G	Synthetic Studies on Oxadiazine Derivatives	Registered for PhD
05.	Mrs. Nishitha M	Synthetic Studies on Crosslinked Polymers and their Industrial Applications	Registered for PhD(Industrial Chemistry)

10. M. Phil Guided

Sl.No.	Name of the candidate	Year	Present address
01.	Mrs. Mahadevi. S.	1991	NSS College, Palghat, Kerala.
02.	Mr. Abraham Joseph	1992	University of Calicut, Malappuram.
03.	Mrs. Indira C.	1994	Kerala Varma College, Thrissur,
04.	Mr.C.H.R. Nambiar	1996	University College, Mangalore.
05.	Mrs. Sharada Airani	1997	G.C.College, Ankola, U.K. Dist.
06.	Mrs. Ashwini K	2009	B.M.C. College for Women, Bangalore

11. Research Project Completed

S. No.	Funding Agency	Title of the Project	Amount	Year From- To
1.	BRNS	Standardization of methods for long term continuous sampling of air for 3H measurement and for the measurement of OBT and TFWT in environmental matrices (Principal Investigator)	Rs.184L	2014-21
2.	BRNS-MAC	Evaluation of cytotoxicity and radiosensitizing efficacy of novel sulfonamide/nitro group containing imidazothiazole derivatives for synergetic anticancer activity (CoPI)	Rs. 13.14L	2015-18
	BRNS-MAC	Studies on radio protective efficacy of pyrazole and pyrimidine derivatives using <i>Drosophila</i> model system.	Rs. 14.0 L	2011-14
3.	BRNS	Baseline database on radiation level, radionuclides and stable elements concentration in environmental matrices around Gugi.	Rs. 36.15 L	2010-13
4.	BRNS-MAC	<i>In vivo</i> Studies on Comparative and Synergetic Radioprotective Effect of 4-Amino-5-mercapto-3-substituted-1,2,4-triazole derivatives and <i>Nardostachys Jatmansii</i> Extract.	Rs. 14.7 L	2009-12
5.	NPCIL-KAIGA	Physicochemical Characteristics of Water in Kaiga Area	Rs. 10.37 L	2008-11
6.	BRNS-MAC	<i>In vitro</i> studies on radioprotective effect of chalcone and its derivatives from synthetic and natural origin in bacteria	Rs. 11.82 L	2008-11

7.	DST	The Impact of Natural Process and Anthropogenic Activities on the Atmospheric Chemistry of Dakshina Kannada on the Qualities of Natural Waters	Rs. 14.30 L	2000-03 3 years and 8 months
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12. List of Publications

A International Journals

1. Experimental and theoretical approach on third-order optical nonlinearity of a highly efficient anthracene-based chalcone derivative for optical power limiting, Elizabeth Mathew, Vinutha V.Salian, **B. Narayana**, I. Hubert Joe. *Journal of Molecular Structure*, ISSN:0022-2860 (2022),1250,131704, DOI: <https://doi.org/10.1016/j.molstruc.2021.131704>. (Impact Fcator: 3.196).
2. Exploration of structural insights, spectroscopic assignments of 4-amino-6-methyl-3-thioxo-3, 4-dihydro-1,2,4-triazin-5(2H) one, G.Jeyanthi, T.Karthick, **B.Narayana**, Gnana Sambandam, *Journal of Molecular Structure*, ISSN:0022-2860 (2022), 1249, 131559. DOI: <https://doi.org/10.1016/j.molstruc.2021.131559>. (Impact factor: 3.196).
3. Stabilization of the DMSO Solvate of 2-Chloro-5-nitrobenzoic acid (Mesalazine Impurity M) by Bifurcated Hydrogen Bonds: Crystallographic, Spectroscopic, Thermal and Computational Studies. U Likhitha, **B. Narayana**, B.K Sarojini, S.Madan Kumar, Naha Anup, P.J Srijana, H.S Yathirajan, *Journal of Chemical Crystallography*, ISSN:1074-1542 (2022) 1-11, DOI: <https://doi.org/10.1007/s10870-021-00913-1>. (Impact factor:0.603).
4. Third-order NLO studies of 2, 4-Bis (4-fluorophenyl)-2, 3-dihydro-1H-1, 5-benzodiazepine using Z-scan technique and DFT method, P Aswathy, I Hubert Joe, S Samshuddin, **B. Narayana**, J Clemy Monicka, *Journal of Molecular Structure*, ISSN:0022-2860, 1246 (2021)131-169, DOI: <https://doi.org/10.1016/j.molstruc.2021.131169>. (Impact Fcator: 3.196).
5. Isomers of Biologically Active 2-Aminopyrimidinium Picrate through Intrinsic Reaction Coordinate Analysis and Spectroscopic Measurements, T Karthick, Keshav Kumar Singh, Swapnil Singh, Poonam Tandon, **B Narayana**, *Polycyclic Aromatic Compounds*, ISSN:1040-6638, (2021), 1-12, DOI: <https://doi.org/10.1080/10406638.2021.2003412>. (Impact factor: 3.744).
6. Molecular structure determination, Bioactivity score, Spectroscopic and Quantum computational studies on (E)-N'-(4-Chlorobenzylidene)-2-(naphthalen-2-yloxy) acetohydrazide, A Jeelani, S Muthu, **B Narayana**, *Journal of Molecular Structure*, ISSN:0022-2860, 5 (2021) 130-558, DOI: <https://doi.org/10.1016/j.molstruc.2021.130558>. (Impact factor: 3.196).
7. Detailed Study of Three Halogenated Benzylpyrazole Acetamide Compounds with Potential Anticancer Properties, Y Shyma Mary, Yohannan Sheena Mary, Renjith Thomas, **B. Narayana**, *Polycyclic Aromatic Compounds*, ISSN:1040-6638, (2021), 1-15, DOI: <https://doi.org/10.1080/10406638.2021.1988997>. (Impact Fcator-3.744).
8. Exploring crystal, electronic, optical and NLO properties of ethyl 4-(3,4-dimethoxy phenyl)-6-methyl-2-thioxo-1,2,3,4-tetrahydro pyrimidine-5-carboxylate (MTTHPC). M. A. M. El-Mansy, A. Suvitha, **B. Narayana**, *Optical and Quantum Electronic*, ISSN: 0306-8919 (2021) 53:424, DOI: <https://doi.org/10.1007/s11082-021-03057-w>. (Impact Fcator: 2.084).

9. Colorimetric “off–on” fluorescent probe for selective detection of toxic Hg²⁺ based on rhodamine and its application for in-vivo bioimaging, B.U. Gauthama, **B. Narayana**, B. K. Sarojini, N. K. Suresh, Y. Sangappa, Avinash K.Kudva, G.Satyanarayanaa Shamprasad Varija Raghu, *Microchemical Journal*, ISSN: 1095-9149 (2021) 166, 106-233.DOI:<https://doi.org/10.1016/j.microc.2021.106233>. (Impact factor-. 4.821)
10. Molecular structure determination, Bioactivity score, Spectroscopic and Quantum computational studies on (E)-N'-(4-Chlorobenzylidene)-2-(naphthalen-2-yloxy) acetohydrazide, A. Jeelani, S. Muthua, **B. Narayana**, *Journal of Molecular Structure*, ISSN: 0022-2860 (2021) 1241, 130-558, DOI: <https://doi.org/10.1016/j.molstruc.2021.130558>. (Impact factor- 3.196)
11. Highly selective and sensitive colorimetric detection of arsenic(III) in aqueous solution using green synthesized unmodified gold nanoparticles, K.S Harisha, **B. Narayana**, Y Sangappa , *J. of dispersion science and technology*, ISSN: 1532-2351 (2021) 1-12, DOI: <https://doi.org/10.1080/01932691.2021.1931286>. (Impact factor-1.701)
12. Theoretical Studies on the Structure and Various Physico-Chemical and Biological Properties of a Terphenyl Derivative with Immense Anti-Protozoan Activity, Y. Sheena Mary, Y. Shyma Mary, Renjith Thomas, **B. Narayana**, S. Samshuddin, B. K. Sarojini, Stevan Armarković, Sanja J. Armarković & Girinath G. Pillai, *Polycyclic Aromatic Compounds*, ISSN: 1040-6638 (2021) 41, 825-840, DOI: <https://doi.org/10.1080/10406638.2019.1624974>. (Impact factor- 3.744)
13. Colorimetric sensor based on hydrazine moiety for rapid and selective detection of fluoride ion via intramolecular charge transfer, Suresh N Kodlady, **B. Narayana**, B.K Sarojini, B.U Gauthama, J.G Manjunatha, *International Journal of Environmental Analytical Chemistry*, ISSN : 1029-0397 (2021) 1-19, DOI: <https://doi.org/10.1080/03067319.2021.1893708>. (Impact factor- 2.826)
14. A facile synthesis of pyrano[2,3-d:6,5-d']dipyrimidines via microwave-assisted multicomponent reactions catalyzed by β-cyclodextrin, Jayashree Avvadukkam, **B.Narayana**, Sarojini B.Kunhanna, Madan S Kumar, *J. of heterocyclic chemistry*, ISSN: 2456-4311 (2021) 58, 724-736, DOI: <https://doi.org/10.1002/jhet.4207>. (Impact factor- 2.193)
15. Eco-synthesis of gold nanoparticles by Sericin derived from Bombyx mori silk and catalytic study on degradation of methylene blue, K.S Harisha, N .Parushuram, S Asha, S.B Suma, **B Narayana**, Y Sangappa *Particulate Science and Technology*, ISSN: 0272-6351 (2021) 39, 131-140, DOI: <https://doi.org/10.1080/02726351.2019.1666951>. (Impact factor- 2.356)
16. Crystallographic and theoretical interpretation of supramolecular architecture in a new salt hydrate of DL-Tartaric acid and Dimethylamine (DLTA-DA), U. Likhitha, **B. Narayana**, B. K. Sarojini, S. Madan Kumar, T. Karthick, *Journal of Molecular Structure*, ISSN: 0022-2860 (2021) 1225, 129-284, DOI: <https://doi.org/10.1016/j.molstruc.2020.129284>. (Impact factor- 3.196)
17. FT-IR and FT-Raman investigation, quantum chemical analysis and molecular docking studies of 5-(4-Propan-2-yl)benzylidene)-2-[3-(4-chlorophenyl)-5-[4-(propan-2-yl)phenyl-4,5-dihydro-1H-pyrazol-1-yl]-1,3-thiazol-4(5H)-one, K. Venila, A. Lakshmi, V. Balachandran, **B. Narayana**, Vinutha V. Salian, *Journal of Molecular Structure*, ISSN: 0022-2860 (2021) 1225, 129-070, DOI: <https://doi.org/10.1016/j.molstruc.2020.129070>. (Impact factor-3.196)
18. Molecular structure, spectroscopic, quantum chemical, topological, molecular docking and antimicrobial activity of 3-(4-Chlorophenyl)-5-[4-propan-2-yl) phenyl-4, 5-dihydro-1H-pyrazol-1-yl] (pyridin-4-yl) methanone, C. Sivakumar, B. Revathi, V. Balachandran, **B. Narayana**, Vinutha V. Salian, N. Shanmugapriya, K. Vanasundari, *Journal of Molecular Structure*, ISSN: 0022-2860 (2021)1224, 129-286, DOI: <https://doi.org/10.1016/j.molstruc.2020.129286>. (Impact factor-3.196)
19. Molecular spectroscopic investigation, quantum chemical, molecular docking and biological evaluation of 2-(4-Chlorophenyl)-1-[3-(4-chlorophenyl)-5-[4-(propan-2-yl) phenyl-3, 5-dihydro-1H-pyrazole-yl] ethenone, C. Sivakumar, B. Revathi, V. Balachandran, **B. Narayana**, Vinutha V. Salian, N. Shanmugapriya, K.

- Vanasundari, *Journal of Molecular Structure*, ISSN: 0022-2860 (2021)1224, 129-010, DOI: <https://doi.org/10.1016/j.molstruc.2020.129010>. (Impact factor-3.196)
20. Crystallographic and theoretical interpretation of supramolecular architecture in a new salt hydrate of DL-Tartaric acid and Dimethylamine (DLTA-DA), U. Likhitha, **B. Narayana**, B. K. Sarojini, S. Madan Kumar, Anupam G. Lobo, T. Karthick, *Journal of Molecular Structure*, ISSN: 0022-2860, (2020), 128-244, DOI: <https://doi.org/10.1016/j.molstruc.2020.128052>. (Impact factor: 2.463)
 21. A study on interwoven hydrogen bonding interactions in new zidovudine-picric acid (1: 1) cocrystal through single crystal XRD, spectral and computational methods, U. Likhitha, **B. Narayana**, B. K. Sarojini, S. Madan Kumar, Anupam G. Lobo, T. Karthick, *Journal of Molecular Structure*, ISSN: 0022-2860, (2020), 128052, DOI: <https://doi.org/10.1016/j.molstruc.2020.128052>. (Impact factor: 2.463)
 22. Quinoline derivatives as possible lead compounds for anti-malarial drugs: spectroscopic, DFT and MD study, B. S. Kumar, S. Y. Mary, C. Y. Panicker, S. Suma, S. Armakovic, S. J. Armakovic, C. V. Alsenoye, **B. Narayana**, *Arab Journal of Chemistry*, ISSN: 1878-5352, (2020), 1, 632-648, DOI: <https://doi.org/10.1016/j.arabjc.2017.07.006>. (Impact factor: 4.762)
 23. Quantum chemical studies of molecular structure, vibrational spectra and nonlinear optical properties of p-iodoaniline and p-bromoaniline, N. L. John, S. Abraham, D. Sajan, B. K. Sarojini, **B. Narayana**, *Journal of Molecular Structure*, ISSN: 0022-2860, (2020), 1222, 128939, DOI: <https://doi.org/10.1016/j.molstruc.2020.128939>. (Impact factor: 2.463)
 24. Colorimetric 'naked eye' sensor for fluoride ion based on isatin hydrazones via hydrogen bond formation: Design, synthesis and characterization ascertained by Nuclear Magnetic Resonance, B. U. Gauthama, **B. Narayana**, B. K. Sarojini, J. G. Manjunatha, N. K. Suresh, *Inorganic Chemistry Communications*, ISSN: 1387-7003, (2020), 121, 108216, DOI: <https://doi.org/10.1016/j.inoche.2020.108216>. (Impact factor: 1.943)
 25. Understanding reactivity of a triazole derivative and its interaction with graphene and doped/undoped-coronene DFT study, Y. Sheena Mary, Y. Shyma Mary, S. Armaković, S. J. Armaković, **B. Narayana**, *Journal of Biomolecular Structure & Dynamics*, (2020), 1-11, DOI: <https://doi.org/10.1080/07391102.2020.1837677>. (Impact factor: 3.310)
 26. Molecular Docking, Spectroscopic, and Computational Studies of 2-[3-(4-Chlorophenyl)-5-[4-(Propan-2-yl) Phenyl]-4, 5-Dihydro-1H-Pyrazol-1-yl]-1, 3-Thiazol-4 (5H)-One, J. Jayasudha, V. Balachandran, **B. Narayana**, *Polycyclic Aromatic Compounds*, ISSN: 1563-5333, (2020), 1-23, DOI: <https://doi.org/10.1080/10406638.2020.1830810>. (Impact factor: 1.34)
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