

Detailed CV



Name : Prof. B. K. SAROJINI
Educational Qualification : M.Sc., Ph.D
Designation : Professor of Industrial Chemistry

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Research Areas : Synthetic and Medicinal Chemistry
Functional Biopolymeric Materials Chemistry
Photonics

Professional Teaching Experience : 20 years

Research Guidance (Ph.D.) :

Completed students' list

Sl. No.	Name	Type	Title	Status
1.	Darshan Raj. C. G [BRNS project fellow]	Full time	Synthesis and characterization of bio active chalcone derivatives & studies on their anti microbial & antioxidant activities.	Ph.D. Awarded [2012]
2.	Vidyagayatri. M.	Part time	Studies on synthesis characterization and biological properties of new nitrogen heterocycles.	Ph.D. Awarded [2013]

3.	Umesha. K.	Part time	Multicomponent synthesis, characterization and applications of new n-bridged heterocycles.	Ph.D. Awarded [2014]
4.	Krishna B. G	Part time	Synthesis, characterization and applications of some new simple and condensed sulphur-nitrogen heterocycles.	Ph.D. Awarded [2014]
5.	Kabeeru Bello	Full time	Preparation and applications of environmentally benign polysaccharide hydrogels	Ph.D. awarded (2020)

Ongoing Registered Students' list

Sl. No.	Name	Type	Title	Status
1	Mohan B.J.	Full time	Studies on Radioprotective and neuroprotective efficacy of pyrazole indazole and pyrimidine derivatives	Ph.D. Registered (2014)
2	Manjula P.S.	Full time	Studies on Synthesis, Characterization and Utility of 4-amino-3-mercapto-5- substituted benzyl- 1, 2, 4-triazole derivatives as Biological and Complexing agents.	Ph.D. Submitted (2019)
3	Jaya Pai A	Part time	Studies on Optical and Pharmaceutical Applications of doped Biopolymer derivatives	Ph.D. Registered (2014)
4.	Harshitha K.R.	Full time	Studies on the applications of new chalcone derivatives and their nanocomposites	Ph.D. submitted (2020)
5	Krishnakishore M. [BRNS Project fellow]	Full time	Studies on Imidazole and thiazole derivatives for radiosensitizing and anticancer activities	Ph.D. Registered (2015)
6	Praveen P.	Full time	Green synthesis of N,O,S heterocycles using nanocatalysts	Ph.D. Registered (2015)
7	Pushparekha	Part time	Studies on optical and pharmaceutical applications of	Ph.D. Registered

8.	Niveditha N.B.	Full time	pullulan and chitosan blends and their nano composites “Isolation and Biochemical characterization of collagen and its hydrolysates from fish wastes”	(2016) Ph.D. Registered (2016)
9.	Uwabagira Nadine	Full time	Design Synthesis of biologically active thiazole scaffolds <i>in vitro</i> and <i>in silico</i> studies	Ph.D. submitted (2020)
10.	Taddesee Bassie	Full time	Fabrication and characterization of some polymer-metal oxide composites for photocatalysis and related applications	Ph. D Registered (2018)

Research Projects (List)

Completed

Sl No	Title	Position	Granting Body	Amount	Status
1.	Studies on NLO and Liquid crystalline properties of some substituted chalcones and related compounds	PI	[CAYT] AICTE [Grant No.1-51/FD/CA/003/2003-04]	Rs.10.5 lakhs	2003 -07
2.	Physicochemical characteristics of water in Kaiga area	Co-PI	Nuclear Power Corporation of India [Grant No. NPICL/AD (RSA)/2007/M]- Co-PI	Rs.10.92 Lakhs	2007- 10
3	<i>In vitro</i> studies on radioprotective effect of chalcone and its derivatives from synthetic and natural origin in bacteria	PI	Board of Research in Nuclear Sciences - [Grant No.2008/34/05-BRNS/457]	Rs.11.81 Lakhs	2008 -11
4.	Isolation, purification, characterization of trypsin from fish visceral wastes of fish processing Industries	PI.	Ministry of Earth Sciences [MoES] [Grant No. MoES/11-MRDF/1/63/P/08]	Rs. 30.17 Lakhs	2009-12
5.	Studies on radioprotective effect of phytochemicals of <i>Anisomeles indica Kuntze</i>	Co-PI	Board of Research in Nuclear Sciences (BRNS) [No.2009/34/27/BRNS/1995]	Rs.17.379 Lakhs	2009-12
6	Studies on radioprotective efficacy of pyrazole and pyrimidine derivatives using	PI	Board of Research in Nuclear Sciences (BRNS) [No.2011/34/27/BRNS/0846]	Rs.13.94 Lakhs	2011-14

	drosophila model system				
7.	In vitro studies of chemotherapeutic drug sensitivity on acquired radio resistant breast cancer cells.	Co PI	Board of Research in Nuclear Sciences	Rs.13.96 Lakhs	2012-2014 completed
8.	Radio-protective evaluation of Omega-3- fatty acid on reproductive fitness profile in mice model	Co-PI	Board of Research in Nuclear Sciences (BRNS) [No.2013/34/9/BRNS/1912]	Rs. 9.51Lakhs	2013-2017
9.	Evaluation of cytotoxicity and radiosensitizing efficacy of novel sulfonamide/nitro group containing imidazothiazole derivatives for synergetic anticancer activity	PI	Board of Research in Nuclear Sciences (BRNS) [No.2014/34/27/BRNS/1997]	Rs. 13.135 Lakhs	2015-2018

Ongoing

Sl No	Title	Position	Granting Body	Amount	Status
1	Electron beam irradiation effects on polyscale functional materials using microtone facility.	One of the PIs in Multidisciplinary project	No.2-7/2016 (NS/PE) dated 29.08.2017. UGC New Delhi Centres with potential for excellence in particular areas (CPEPA)	5.3 Crores	2018-23
2.	Environment friendly reusable Nanofiber filter masks for protection against COVID-19	PI	Mangalore University, Mangalagangothri	Rs.1,00,000 /- Seed money	One year (2020-21)

Professional Collaboration

International: 10

National: 10

Research Journal Publications (list): List Attached Annexure I

International: 389

National : 10

Conference proceedings: 12

Book chapters : 02

Papers/ poster presentations in Conferences / Seminars / Symposia

International: 20 (2017 onwards)

National: 15(2017 onwards)

Regional:-

Invited / plenary talks delivered: 22

Impact of publications in terms of

h-index: 29 (Google Scholar); Scopus : 25

i10 index: 107

Citations: 4476

Conferences / Seminars / Workshops / Symposia organized :

Convener for National Seminar/workshop on Functional Nanomaterials for energy, environment and Health(**FuNEH2016**) held on 21-22 March 2016 at Mangalore University.

Awards / Fellowship / Recognition

1. **Award for Research papers (ARP) received from VGST Govt. of Karnataka 2019-20 [Award of Rs.25,000]**
2. **“Career Award for young Teachers” (CAYT) award by All India Council for Technical Education (AICTE) for the year 2003. Grant of Rs. 10.5 Lakhs**
3. **Invitation from Institute of Chemistry, Academia Sinica, Taiwan- Visiting Scientist- Jan.2008.**
4. **h- index Google Scholar - 29; Scopus: 25**
5. **Listed as 3rd author for highest publications at Mangalore University listed by Springer Nature.**
6. **Mentors/Resource persons for Summer/Winter Camps and other INSPIRE initiatives- DST, Govt. of India- No.2053.**

7. **Listed as *one of the Top 20 Most productive authors of India in Biochemistry, Genetics and Molecular Biology during 1998-2007, DESIDOC, Journal of Library & Information Technology, Vol. 30, No. 1, January 2010, pp. 3-14, 2010, DESIDOC***
8. **Visiting Scientist: Universiti Malaysia Pehang, Malaysia July- Aug, 2013.**
9. **Listed as one of the top Five researchers of the country in Material Science Category in a survey conducted by "*Careers 360*" magazine, based on the publication citations in the *Scopus (Elsevier)* for the period 2011-2013.**
10. **Super Sadhaki AWARD – RED FM 93.5 (2017).**

Membership of Professional Bodies

- 1 Life member of **Indian Liquid Crystal Society [ILCS]** (No.L-218)
- 2 Life member of **Indian Council of Chemists [ICC]** (No.LF-913)
- 3 Life member of **Indian Society for Technical Education ISTE**(No. LM- 42083)
- 4 Member of **The International Society for optical Engineering [SPIE]** (No. 3004552)
- 5 Life member of **The Indian Science Congress Association [ISCA]** (No. - 10793)
- 6 Life member of **The Electrochemical society of India [ECSI]** (No. – 127)
- 7 Life member **Swadeshi Vijnana Aandolana – Karnataka -2009**
- 8 Life member of **Indian Society for Radiation and Photochemistry - 2010 (LM- 407)**
- 9 Life member of **Indian women Scientist Association-2012.**
- 10 Life member of **Karavali Lekhakiyara mathu watchakiyara Sangha-2015.**

Any other Information: Literary work in Kannada language.

Annexure I

List of Publications: Prof.B.K.Sarojini upto (Nov.2020)

1. NL John, S Abraham, D Sajan, BK Sarojini, B Narayana. Quantum chemical studies of molecular structure, vibrational spectra and nonlinear optical properties of p-iodoaniline and p-bromoaniline. *Journal of Molecular Structure* **2020**, 1222, 128939.
2. YS Mary, YS Mary, G Serdaroglu, BK Sarojini. Conformational analysis and quantum descriptors of two bifonazole derivatives of immense anti-tuber potential by using vibrational spectroscopy and molecular docking studies. *Structural Chemistry* **2020**, 1-9.
3. NB Niveditha, BK Sarojini, SJDS Doddapanen. Isolation and biochemical characterization of vital protein collagen: fish waste valorization of Arabian Sea fish *Sardinella longiceps* and its fluorescence quenching property. *Biomedicine* **2020**, 40 (1), 36-44.
4. VV Salian, B Narayana, BK Sarojini, SC Kodandoor, AG Lobo. Design, Synthesis, Docking and Computational Pharmacokinetic Profiling of New Pyrazolinyl Thiazolinone Biheterocycles as Potent Antimicrobial Agents. *Letters in Drug Design & Discovery* **2020**, 17 (11), 1342-1354.
5. BU Gauthama, B Narayana, BK Sarojini, JG Manjunatha, NK Suresh. Colorimetric 'naked eye' sensor for fluoride ion based on isatin hydrazones via hydrogen bond formation: Design, synthesis and characterization ascertained by Nuclear Magnetic Resonance, Ultraviolet-Visible, Computational and Electrochemical studies. *Inorganic Chemistry Communications* **2020**, 121, 108216.
6. J Soudi, KM Sandeep, BK Sarojini, PS Patil, SR Maidur, KM Balakrishna. Thermo-optic effects mediated self focusing mechanism and optical power limiting studies of ZnO thin films deposited on ITO coated PET substrates by RF magnetron sputtering under continuous wave laser regime. *Optik* **2020**, 165835.
7. KR Harshitha, BK Sarojini, B Narayana, AG Lobo, BS Kalal. Molecular Docking of 4-ethoxychalcones on Oxidoreductase/Pirin Inhibitors and Cytotoxic Evaluation on Breast/Skin Cancer Cell Lines. *Letters in Drug Design & Discovery* **2020**, 17 (10), 1245-1260.
8. N Uwabagira, BK Sarojini, A Prabhu. Synthesis, In Vitro Anticancer, Anti-Inflammatory and DNA Binding Activity of Thiazolidinedione Derivatives. *Anti-Cancer Agents in Medicinal*

Chemistry (Formerly Current Medicinal Chemistry-Anti-Cancer Agents) **2020**, 20 (14) 1704-1713.

9. NB Niveditha, BK Sarojini, AH Shrungeswara. A Study on the Synergistic Effect of Bioactive Compounds from Papaya Leaf and Collagen Isolated from Indian Mackerel on in vitro Wound Closure Capacity. *Journal of Fisheries and Environment* **2020**, 44 (2), 24-36.
10. BU Gauthama, B Narayana, BK Sarojini, K Bello, NK Suresh. Nitrate/Nitrite determination in water and soil samples accompanied by in situ azo dye formation and its removal by superabsorbent cellulose hydrogel. *SN Applied Sciences* **2020**, 2 (7), 1-16.
11. LN Madhu, S Telkar, D Kamath, MED Souza, S Rao, PS Nayak, BK Sarojini. Inhibition of Ehrlich ascites cancer, hypoxia-inducible factor-1 alpha, and the kinase insert domain-containing receptor/fms-like tyrosine kinase-binding domains of vascular endothelial growth factor by Thiazole Acetamide Derivatives. *Journal of Cancer Research and Therapeutics* **2020**, DOI: 10.4103/jcrt.JCRT_577_16.
12. U Vinoditha, BK Sarojini, KM Sandeep, B Narayana, KM Balakrishna. Phase segregation induced third order nonlinear saturable absorption behavior in Erbium doped ZnO nanoparticles synthesized by facile hydrothermal method. *Physica E: Low-dimensional Systems and Nanostructures* **2020**, 124, 114281.
13. SN Kodlady, B Narayana, BK Sarojini, SN Karanth, BU Gauthama. A highly selective chemosensor derived from benzamide hydrazones for the detection of cyanide ion in organic and organic-aqueous media: design, synthesis, sensing and computational studies. *Supramolecular Chemistry* **2020**, 32 (8), 1-12.
14. VD Singh, AU Kamni, Y Khajuria, B Narayana, R Srinivasan, BK Sarojini, S Anthal, R Kant. Synthesis, FT-IR, UV-VIS, DFT studies and SCXRD structure of 1-(tert-butyl) 3-ethyl-3-(hydroxy (thiophen-2-yl) methyl) piperidine-1, 3-dicarboxylate. *Indian Journal of Chemistry-Section B* **2020**, 59 (7), 1043-1056.
15. U Likhitha, B Narayana, BK Sarojini, SM Kumar, AG Lobo, T Karthick. A study on interwoven hydrogen bonding interactions in new zidovudine-picric acid (1: 1) cocrystal through single crystal XRD, spectral and computational methods. *Journal of Molecular Structure* **2020**, 1211,128052.
16. P Praveena, BK Sarojini, SM Kumar, Mechanochemical Synthesis and Characterizations of chalcone derivatives:(2E)-3-[4-(Benzyloxy) phenyl]-1-(thiophen-2-yl) prop-2-en-1-one and (2E)-3-(Anthracen-9-yl)-1-(thiophen-2-yl) prop-2-en-1-one, *Chemical Data Collections*, **2019**, 24, 100298.
17. N Uwabagira, BK Sarojini, MK Shankar, RS Gani. Potent pharmacophoric aminothiazole derivatives as FabH inhibitors for antibacterial activity: in vitro and in silico approach *SN Applied. Sciences* **2019** 1: 1375. <https://doi.org/10.1007/s42452-019-1298-2>.

18. N Uwabagira, BK Sarojini 3-([(2, 3-Dichlorophenyl) amino] methyl)-5-(furan-2-ylmethylidene)-1, 3-thiazolidine-2, 4-dione, *Molbank* **2019**, 2019(4), M1083; <https://doi.org/10.3390/M1083>.
19. VV Salian, B Narayana, BK Sarojini, MS Kumar, KS Chandra, AG Lobo, Tailor made biheterocyclic pyrazoline-thiazolidinones as effective inhibitors of Escherichia coli FabH: Design, synthesis and structural studies, *Journal of Molecular Structure* , **2019**, 1192, 91-104.
20. KR Harshitha, BK Sarojini, B Narayana, SR Maidur, PS Patil, K Kumara, Donor- π -Acceptor- π -Donor class of 2, 5-dibenzylidenecyclopentan-1-one analogues as efficient third order nonlinear optical and photoluminescent materials—An experimental investigation, *Optics & Laser Technology*, **2019**, 117, 304-315.
21. SN Kodlady, B Narayana, BK Sarojini, BU Gauthama, Aromatic aldehyde based chemosensors for fluoride and cyanide detection in organic and aqueous media: Ascertained by characterization, spectroscopic and DFT studies, **2019**, *Inorganica Chimica Acta* 494, 245-255.
22. LN Madhu, S Telkar, D Kamath, ME D'Souza, S Rao, PS Nayak, BK Sarojini, Inhibition of Ehrlich ascites cancer, hypoxia-inducible factor-1 alpha, and the kinase insert domain-containing receptor/fms-like tyrosine kinase-binding domains of vascular endothelial growth factor by Thiazole Acetamide Derivatives **2019**, *Journal of Cancer Research and therapeutics*, 2019, DOI: 10.4103/jcr.JCRT_577_16.
23. U Likhitha, B Narayana, BK Sarojini, Anupam G Lobo, Gopal Sharma, Surbhi Pathania, Rajni Kant, Do hydrogen bonding and noncovalent interactions stabilize nicotinamide-picric acid cocrystal supramolecular assembly? *Journal of Molecular Structure*, **2019**, 1195, 5 , Pages 827-838
24. Y Sheena Mary, Y Shyma Mary, Renjith Thomas, B Narayana, S Samshuddin, BK Sarojini, Stevan Armaković, Sanja J Armaković, Girinath G Pillai, Theoretical Studies on the Structure and Various Physico-Chemical and Biological Properties of a Terphenyl Derivative with Immense Anti-Protozoan Activity, , *Polycyclic Aromatic Compounds*, **2019**, 1-16.
25. U Vinoditha, BK Sarojini, KM Sandeep, B Narayana, SR Maidur, PS Patil. KM. Balakrishna, Defects-induced nonlinear saturable absorption mechanism in europium-doped ZnO nanoparticles synthesized by facile hydrothermal method, **2019**, *Applied Physics A* 125 (6), 436.
26. A Jayashree, B Narayana, SM Kumar, KR Raghi, BK Sarojini, TKM Kumar, Synthesis, X-ray crystal structure, Hirshfeld surface analysis, DFT, MESP and molecular docking studies of 2-(4-bromophenyl)-1-(3-fluoro-4-methylphenyl)-4, 5-diphenyl-1H-imidazole *Chemical Data Collections*, 2019, 21, 100237.
27. Renjith Thomas, Y Sheena Mary, KS Resmi, B Narayana, BK Sarojini, G Vijayakumar, C Van Alsenoy Two neoteric pyrazole compounds as potential anti-cancer agents: Synthesis,

- electronic structure, physico-chemical properties and docking analysis , **2019**, Journal of Molecular Structure,1181,455-466.
28. A Jaya Pai, BK Sarojini, K R Harshitha, B S Holla, A G Lobo, Spectral, morphological and optical studies on bischalcone doped polylactic acid (PLA) thin films as luminescent and UV radiation blocking materials,Optical Materials, **2019**, 90,145-151.
29. Kabiru Bello, BK Sarojini, B Narayana, Design and fabrication of environmentally benign cellulose based hydrogel matrix for selective adsorption of toxic dyes from industrial effluvia, Journal of Polymer Research, **2019**, 26, 62.
30. Pushparekha, BK Sarojini, Kabiru Bello, BS Holla, MM Subrahmanya, Design, fabrication and studies on optical properties of new hybrid chitosan films doped with 1, 3, 4-oxadiazole derivatives for down conversion and photoluminescence applications,Optical Materials, **2019**,89,80-91.
31. S N Karanth, B Narayana, BK Sarojini, S M Kumar, K Byrappa, Crystal structure, Hirshfeld surfaces and biological studies of 4, 5-dihydro-1, 3, 4-oxadiazole-2-thiones, Chemical Data Collections, **2019**, 19, 100179.
32. J Stodus, S Anthal, S Karanth, B Narayana, BK Sarojini, R Kant, 2, 4-Dichloro-N-(2, 5-dioxopyrrolidin-1-yl) benzamide, **2019**, IUCrData, 3,12, x181740.
33. KR Harshitha, BK Sarojini, B Narayana, Anupam G Lobo, S Madan Kumar, K Byrappa, Single crystal X-ray studies and Hirshfeld surface analysis of ethoxy phenyl substituted chalcone derivatives, 2019, Chemical Data Collections,17,121-131.
34. J Stodus, S Anthal, A Jayashree, B Narayana, BK Sarojini, R Kant, Polymorph of (E)-N'-(4-chlorobenzylidene) isonicotinohydrazide monohydrate, **2018**, 3 (11), x181634.
35. SN Karanth, B Narayana, S Kodandoor, B Sarojini,2-[[4-Hydroxy-3, 5-dimethoxyphenyl) methylidene] hydrazinylidene]-4-oxo-1, 3-thiazolidin-5-yl Acetic Acid, **2018**, Molbank 2018 (3), M1009.
36. D K Sharma, A Jayashree, B Narayana, B K Sarojini, C Ravikumar, S Murugavel, S Anthal, R Kant, Crystal structure and molecular docking studies of 1, 2, 4, 5-tetraaryl substituted imidazoles **2018**,Heterocyclic Communications,24,205-210.
37. S Anthal, B Narayana, BK Sarojini, R Kant, Synthesis, X-ray crystal structure studies and molecular docking analysis of 2-(3, 4-dimethoxyphenyl)-4, 5-diphenyl-1*H*-imidazole,**2018**, Chemical Data Collections 15, 67-74.
38. V V Salian, B Narayana, BK Sarojini, N Mahesh, K Byrappa, S Madan Kumar Synthesis, crystal structures and Hirshfeld surface studies of chalcone derivatives:(2E)-1-(4-2, 4-Dichlorophenyl)-3-[4-(propan-2-yl) phenyl] prop-2-en-1-one and (2E)-1-(4-Fluorophenyl)-3-[4-(propan-2-yl) phenyl] prop-2-en-1-one, , Chemical Data Collections **2018**,15, 54-61.

39. Abdul-Malek S Al-Tamimi, Y Sheena Mary, Hanan M Hassan, KS Resmi, Ali A El-Emam, B Narayana, BK Sarojini, Study on the structure, vibrational analysis and molecular docking of fluorophenyl derivatives using FT-IR and density functional theory computations, **2018**, Journal of Molecular Structure 1164, 172-179.
40. SN Karanth, B Narayana, J Avvadukkam, B Sarojini, 1-[5-(4-Ethoxyphenyl)-3-(naphthalen-1-yl)-4,5-dihydro-1H-pyrazol-1-yl]ethan-1-one, **2018**, Molbank 2018 (2), M1000.
41. BJ Mohan, BK Sarojini, B Narayana, E Sindhu Priya (Z)-4-[2-(3, 4-Difluorophenyl)hydrazono]-3-methyl-1H-pyrazol-5 (4H)-one, Molbank **2018**, 2018 (2), M989
42. VV Salian, B Narayana, BK Sarojini, K Byrappa, A Comprehensive Review on Recent Developments in the Field of Biological Applications of Potent Pyrazolines Derived from Chalcone Precursors, Letters in Drug Design & Discovery, **2018**, 15 (5), 516-574.
43. N Uwabagira, B Sarojini, B Poojary, N-(3-Chloro-2-methylphenyl)-4-(4-fluorophenyl)-1, 3-thiazol-2-amine, **2018**, Molbank 2018 (1), M975
44. A Raina, VV Salian, B Narayana, BK Sarojini, R Kant, Crystal Structure of (2E)-1-(Anthracen-9-yl)-3-(3-nitrophenyl) prop-2-en-1-one X-ray Structure Analysis Online, **2018**, 34, 5-6
45. K Bello, BK Sarojini, B Narayana, A Rao, K Byrappa A study on adsorption behavior of newly synthesized banana pseudo-stem derived superabsorbent hydrogels for cationic and anionic dye removal from effluents Carbohydrate polymers, **2018**, 181, 605-615
46. SM D'Souza, MK Ramees, BK Sarojini, Studies on the properties of Nano metal oxides doped DNA-CTMA Matrix, Materials Today: Proceedings, **2018**, 5 (1), 2582-2587
47. R Srinivasan, B Narayana, BK Sarojini, CGD Raj, Synthesis of novel spiropiperidine derivatives and their antimicrobial and antioxidant activities, Indian Journal of Chemistry-B, **2018**, Vol.57B(11), 1391-1408.
48. AG Lobo, BK Sarojini, S Thomas, A Aman, M Nawaz, A Mujeeb, An Experimental and Theoretical Study on the Effect of Microstructure on the Tensile Behavior of Polylactide Nano Composites, Advanced Manufacturing and Materials Science, **2018**, 337-348
49. R Sharma, A. Jayashree, B. Narayana, B. K. Sarojini, C. Ravikumar, S. Murugavel, S. Anthal, Rajni Kant, Synthesis, X-Ray Structure and Molecular Docking Analysis of Two Novel 1,2,4,5-Tetrasubstituted Imidazole Derivatives, International Journal of Biophysics **2018**, 8(1): 9-15.
50. S Y Mary, ES Al-Abdullah, H I Aljohar, B Narayana, P S Nayak, BK Sarojini, S Armakovic, SJ Armakovic, C Van Alsenoy, Ali A El-Emam, 4-[(4-acetylphenyl)amino]-2-methylidene-4-oxobutanoic acid, a newly synthesized amide with hydrophilic and hydrophobic segments : spectroscopic characterization and investigation of reactive properties, **2018**, 83, 1-18.

51. VD Singh, VV Salian, B Narayana, BK Sarojini, S Anthal, R Kant, Synthesis and Crystal Structure of a Chalcone Derivative, *Crystallography Reports*, **2017**, 62 (7), 1157-1159
52. DK Sharma, KN Subbulakshmi, B Narayana, BK Sarojini, S Anthal, R Kant, Synthesis and Molecular Structure of 2-(4-Chlorophenyl)-3-(phenyl-amino)-5-(thiophen-2-ylmethylidene)-3,5-dihydro-4H-imidazol-4-one, *Crystallography Reports*, **2017**, 62 (7), 1148-1151
53. SN Karanth, B Narayana, BK Sarojini, S Khan, SS Kenkere, A Study on Identification of Nutraceutical Value of New Imidazolone Schiff Base Analogues, *Letters in Drug Design & Discovery*, **2017**, 14 (12), 1358-1370
54. Y Sheena Mary, Y Shyma Mary, C Yohannan Panicker, Stevan Armaković, Sanja J Armaković, B Narayana, BK Sarojini, C Van Alsenoy Investigation of reactive and spectroscopic properties of oxobutanoic acid derivative: Combined spectroscopic, DFT, MD and docking study, *Journal of Molecular Structure*, 2017, 1148, 266-275
55. M Sapnakumari, B Narayana, KS Shashidhara, BK Sarojini, Multicomponent synthesis, biological evaluation and molecular docking of new spiro-oxindole derivatives *Journal of Taibah University for Science*, 2017, 11 (6), 1008-1018.
56. V Sasikala, D Sajan, L Joseph, B Narayana, BK Sarojini, spectroscopic and non-linear optical studies of two novel optical limiters from dichloroaniline family crystals: 3, 4-Dichloroaniline and 3, 5-dichloroaniline, *Optics & Laser Technology*, 2017, 96, 23-42.
57. A Kumar, A Dwivedi, AK Srivastava, N Misra, B Narayana, S Samshuddin, BK Sarojini, Molecular Structures, Vibrational Spectra, Electronic Properties, and Molecular Docking of Two Pyrazoline Derivatives Containing 1-Carboxamide and 1-Carbothioamide: A Comparative Study, *Polycyclic Aromatic Compounds*, 2017, 37 (4), 267-279.
58. Y Sheena Mary, Fatmah AM Al-Omary, Gamal AE Mostafa, Ali A El-Emam, PS Manjula, BK Sarojini, B Narayana, Stevan Armaković, Sanja J Armaković, C Van Alsenoy, Insight into the reactive properties of newly synthesized 1, 2, 4-triazole derivative by combined experimental (FT-IR and FR-Raman) and theoretical (DFT and MD) study, *Journal of Molecular Structure*, 2017, 1141, 542-550.
59. R Shahidha, S Muthu, M Raja, R Raj Muhamed, B Narayana, Prakash S Nayak, BK Sarojini Spectroscopic (FT-IR, FT-Raman), first order hyperpolarizabilities, NBO, Fukui function and molecular docking study of N-(4-Chloro-3-methylphenyl)-2-phenylacetamide, 2017, *Optik*, 140, 1127-1142
60. V Salian, B Narayana, BK Sarojini, N-(4-Nitrophenyl)-2-{2-[3-(4-chlorophenyl)-5-[4-(propan-2-yl) phenyl]-4, 5-dihydro-1H-pyrazol-1-yl]-4-oxo-4, 5-dihydro-1, 3-thiazol-5-yl} acetamide, 2017, *Molbank* 2017 (2), M943

61. AS Khandagale, L Mundodi, BK Sarojini, Isolation and characterization of trypsin from fish viscera of oil sardine (*Sardinella longiceps*), 2017, *Int J Fish Aquat Stud* 5, 33-37.
62. VV Salian, B Narayana, BK Sarojini, MS Kumar, GS Nagananda, K Byrappa, AK Kudva, Spectroscopic, single crystal X-ray, Hirshfeld, in vitro and in silico biological evaluation of a new series of potent thiazole nucleus integrated with pyrazoline scaffolds, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 2017, 174, 254-271
63. VV Salian, B Narayana, K Byrappa, BK Sarojini, R Kant, X-ray structure, hydrogen bonding and lattice energy analysis of (2E)-1-(anthracen-9-yl)-3-(4-substitutedphenyl) prop-2-en-1-ones, *Bulletin of Materials Science*, 2016, 1-10
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