Biodata of Dr. B. Ramachandra

Current Position:

Assistant Professor, Department of Chemistry,
Government College for Men (Autonomous),
Kadapa, Andhra Pradesh, India
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Me @ Research Database

1. **Scopus ID:** 55890370400 View
2. **Researcher ID:** I-6374-2015 View
3. **Vidwan ID:** 59937 View
4. **Publons:** View
5. **Google Scholar:** View
6. **ResearchGate:** View
7. **ORCID ID:** 0000-0003-3226-7204 View

Academic Records:

1. 6th rank in S.K University, PGCET-2005
2. M.Sc. (S.K University-**78%)**
3. Qualified **UGC-JRF** (2008) and NET
4. Ph.D (**CSIR-IICT** & **JNTU, Hyderabad**)
5. Research work carried out at **"Indian Institute of Chemical Technology (CSIR IICT)",** Hyderabad under the supervision of **Dr. R. Nageswara Rao**, Chief Scientist.
6. Selected as **Lecturer** through **APPSC-2011.**

Honors & Awards:

1. **Andra Pradesh State Best Teacher Award-2024 in Chemistry**
2. **Outstanding reviewer award** from **Journal of Pharmaceutical and Biomedical Analysis**, **Elsevier, Netherlands-2018**
3. Biographical profile Published in the **"Marquis who's who in the world"** (New Jersey,U.S.A.)-2016
4. **"Prathibha award"** for securing 92.5% in Board of Intermediate by AP Government-2013.
5. **BOS Subject Expert for** SKR & SKR Womens Degree College, Kadapa, Andhra Pradesh
6. **BOS Subject Expert for** Sri Ramakrishna Degree College, Nandyal, Andhra Pradesh
7. **BOS Subject Expert for** PVKN Government College, Chittor, Andhra Pradesh
8. **Editorial member** of **"Asian Council of Science Editors" (Deira Dubai. U.A.E)**
9. **Jury Member** for **Inspire Science Projects**

Research & Teaching Experiences:

1. Worked as **Junior Scientist** at VIMTA LABS, Hyderabad from 2008-2009
2. **JRF scholar** at CSIR-IICT, Hyderabad-2009-2011.
3. **SRF scholar** at CSIR-IICT, Hyderabad-2011-2012.
4. **Lecturer in Chemistry** in Govt. Degree Colleges (Razole & Rajampeta) from 2011-2016
5. **Assistant Professor in Chemistry** in **Govt. College for Men (A), Kadapa** from 2016 till to date

Research Output:

1. Total Articles Published **: 22 (Scopus)**
2. Total Impact factor **: 43.84**
3. Average Impact factor **: 2.55**
4. H-Index **: 9**
5. i-10 Index **: 9**
6. Total Citations **: 320**

Certified Peer Reviewer:

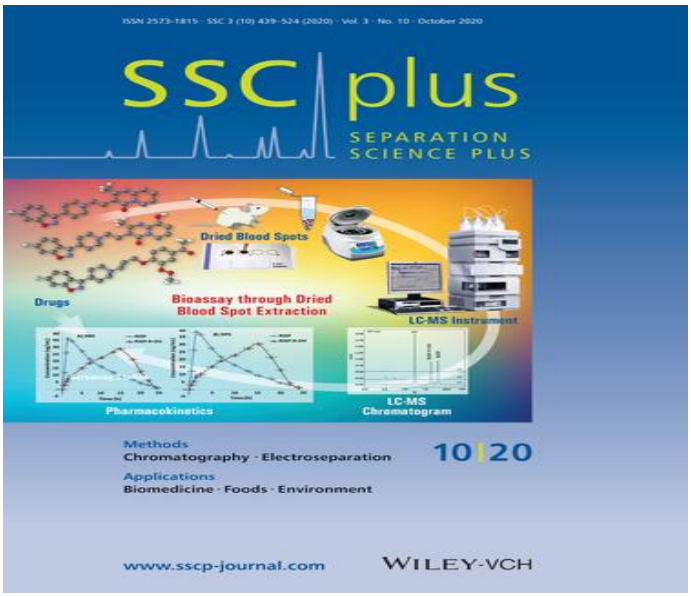
1. ACS Reviewer Lab, ACS Publications, Washington, DC (USA)-2019
2. Publons Academy, Web of Science (USA)-2019
3. Researcher Academy, Elsevier (Netherlands)-2019

Review Activities (ORCID Verified): 12 Journals

1. **Royal Society of Chemistry (United Kingdom):**
   - RSC Advances
   - Analytical Methods
2. **Elsevier (Netherlands):**
   - Journal of Pharmaceutical and biomedical analysis
   - Talanta
   - Microchemical Journal
3. **Taylor & Francis (United Kingdom):**
   - Critical Reviews in Analytical Chemistry
   - Phosphorus, Sulfur, and Silicon and the Related Elements
4. **Bentham Science (United Arab Emirates):**
   - Current Pharmaceutical Analysis
5. **SCIENCEDOMAIN international:**
   - British Journal of Pharmaceutical Research
   - International STD Research & Reviews
   - British Journal of Education Society & Behavioural Science
6. **Academy of Pharmacy (Turkey)**
   - Turkish Journal of Pharmaceutical Sciences

Papers Published at Cover Page

1	**FRONT COVER PAGE:** Simple and rapid analysis of Linagliptin in dried blood spot using an ionic liquid based vortex-assisted dispersive liquid–liquid microextraction coupled with liquid chromatography–electrospray ionization–tandem mass spectrometry: Application to pharmacokinetic studies	**Separation Science Plus, 2021, Volume 4, Issue9** 03 September 2021 **https://doi.org/10.1002/sscp.202170040**	**1.3** Wiley **(**Scopus)
2	**FRONT COVER PAGE:** Bioassay studies of Risperidone and its active metabolite in rat dried blood spots and dried plasma spots using LC-ESI-MS/MS: Comparison of their pharmacokinetic profiles	**Separation Science Plus, 2020,** Volume 3, Issue 10 **19 October 2020** **10.1002/sscp.202070031**	**1.3** Wiley **(**Scopus)
3	**FRONT COVER PAGE:** Characteristics, properties, and analytical and bio-analytical methods of enzalutamide: A review	**Separation Science Plus, Volume 6, Issue 4** **07 February 2023** **https://analyticalsciencejournals.onlinelibrary.wiley.com/hub/journal/25731815/cover/index2023**	**1.3** Wiley **(**Scopus)



Research Publications-22 (Scopus)

S.No	Title of the article	Name of the Journal	Impact Factor
1	Chiral ionic Liquid-based Vortex-assisted Enantio-separation of S-(+) and R-(-) Besifloxacin and Evaluation of Zeropoint Energy by Two-phase Liquid-liquid Extraction.	**Oriental Journal of Chemistry, 2024, Vol 40, Issue 1, p194** https://doi.org/10.13005/ojc/400124	0.8 **EBSCO** Web of Science
2	Analytical quality by design aided stability indicating a robust ultra-performance liquid chromatographic technique for the quantification of sonidegib and its organic impurities in bulk drug substance	**Separation Science Plus,** 2024 Volume7, Issue3 11 January 2024 https://doi.org/10.1002/sscp.202300181	1.3 Wiley **(**Scopus)
3	Characteristics, properties, and analytical and bio-analytical methods of enzalutamide: A review	**Separation Science Plus,** 2023 Volume6, Issue4 07 February 2023 https://doi.org/10.1002/sscp.202200119	1.3 Wiley **(**Scopus)
4	Simple and rapid analysis of Linagliptin in dried blood spot using an ionic liquid based vortex-assisted dispersive liquid–liquid microextraction coupled with liquid chromatography–electrospray ionization–tandem mass spectrometry: Application to pharmacokinetic studies	**Separation Science Plus,** 2021 Volume4, Issue9 26 June 2021 Pages 328-336 https://doi.org/10.1002/sscp.202100008	1.3 Wiley **(**Scopus)
5	**FRONT COVER PAGE:** Simple and rapid analysis of Linagliptin in dried blood spot using an ionic liquid based vortex-assisted dispersive liquid–liquid microextraction coupled with liquid chromatography–electrospray ionization–tandem mass spectrometry: Application to pharmacokinetic studies	**Separation Science Plus, 2021,** Volume 4, Issue9 03 September 2021 https://doi.org/10.1002/sscp.202170040	1.3 Wiley **(**Scopus)
6	HPLC bioassay of elvitegravir using a molecularly imprinted polymer based solid phase extraction in rat plasma: application to pharmacokinetic studies	***Journal of Analytical Chemistry,* 2021** ***21 November, 2020*** 10.1134/S1061934821100129	1.237 (Springer) **(Scopus)**
7	**FRONT COVER PAGE:** Bioassay studies of Risperidone and its active metabolite in rat dried blood spots and dried plasma spots using LC-ESI-MS/MS: Comparison of their pharmacokinetic profiles	**Separation Science Plus, 2020,** Volume 3, Issue 10 **19 October 2020** 10.1002/sscp.202070031	1.3 Wiley **(**Scopus)
8	Bioassay studies of Risperidone and its active metabolite in rat dried blood spots and dried plasma spots using LC-ESI-MS/MS: Comparison of their pharmacokinetic profiles	**Separation Science Plus, 2020,** Volume 3, Issue 10 **19 July 2020** 10.1002/sscp.202000021	1.3 Wiley **(**Scopus)
9	Enantioseparation of DPP-4 Inhibitors on Immobilized Crown Ether-Based Chiral Stationary Phase	**Chromatographia, 81, 2018, 1705–1710**	2.213 (Springer) **(Scopus)**

10	A Stability indicating LC-MS Method for determination of Perindopril and its process related impurities	**Pharmaceutical Chemistry Journal** 52 (4), **2018,** 378–383.	**1.063** (Springer) **(Scopus)**
11	UHPLC determination of Besifloxacin Enantiomers on Immobilized Amylose Tris (3, 5-Dichlorophenylcarbamate) Chiral Stationary Phase	**Chromatographia,** 80 (10), 1509-1515, **2017**	**2.213** (Springer) **(Scopus)**
12	Development of impurity profiling methods using modern analytical techniques	**Critical Reviews in Analytical Chemistry,** 47, **2017,** 24-36	**5.686** (Taylor & Francis) **(Scopus)**
13	A Critical Review of Properties of Modafinil and Analytical, Bio Analytical Methods for Its Determination	**Critical Reviews in Analytical Chemistry,** 46, **2016,** 482-489	**5.686** (Taylor & Francis) **(Scopus)**
14	Enantiomeric discrimination and quantification of Zolmitriptan by 1H NMR spectroscopy using chiral solvating agent	**Journal of Chemical & Pharmaceutical Research,** 8, **2016,** 56-65	**0.75** (JOCPR) **(SJR, Elsevier)**
15	LC-MS/MS characterization of degradation products of Darunavir	***Journal of Pharmaceutical and biomedical analysis*** 89, **2014,** 28-33	**3.571** (Elsevier) **(Scopus)**
16	RPLC separation and characterization of unknown impurities of Darunavir by ESI-MS and 2D NMR spectroscopy	***Journal of Pharmaceutical and biomedical analysis*** 75, **2013,** 186-191	**3.571** (Elsevier) **(Scopus)**
17	Evaluation of (R)-(α)-Methoxy Phenyl Acetic Acid as a Chiral Shift Reagent for Determination of Enantiomers of Modafinil in Formulations by ^{1}H NMR Spectroscopy	**Chirality,** 24, **2012,** 339-344	**2.183** (Wiley) **(Scopus)**
18	Separation and characterization of forced degradation products of abacavir sulphate by LC– MS/MS	***Journal of Pharmaceutical and biomedical analysis*** 54, **2011,** 279-285	**3.571** (Elsevier) **(Scopus)**
19	Rapid determination of rifaximin on dried blood spots by LC-ESI-MS	***Biomedical Chromatography***, 25 (**2011**) 1201–1207	**1.911** (Wiley) **(Scopus)**
20	Ionic liquids in Monolithic LC Separations-ILs as mobilephase additives in separation of antiretrovirals	***G.I.T. Laboratory Journal*** , 5-6/2011.	Wiley Analytical Science
21	RPLC separation of antiretroviral drugs on a monolithic column using ionic liquids as mobile phase additives	***Journal of Separation science,*** 34, **2011,** 500–507.	**3.614** (Wiley) **(Scopus)**
22	LC–MS/MS studies of ritonavir and its forced degradation products, R N. Rao, **B.Ramachandra,** R. Mastan Vali, S S Raju	***Journal of pharmaceutical and biomedical analysis*** 53, **2010,** 833-842.	**3.571** (Elsevier) **(Scopus)**

Books Edited:

Proceedings of National Seminar on **"Modern Trends in Chemistry Research"** Roshan Publications, Visakhapatnam; ISBN No: 978-93-86251-44-2

Book Chapters Published:

1. Proceedings of National Seminar on **"Modern Trends in Chemistry Research"** Roshan Publications, Visakhapatnam **(2017);** ISBN No: 978-93-86251-44-2
2. Proceedings of National Seminar on **"Recent Trends in Research Methodology in Chemistry"** KY Publications, Guntur **(2019);** ISBN No: 978-93-87769-80-9
3. Proceedings of National Seminar on **"Emerging Trends in Chemical, Material and Environmental Sciences"** Roshan Publications, Visakhapatnam**(2019);**; ISBN No: 978-93-87540-98-9.

MOOCs Courses: 10

1. Nanotechnology and Nanosensors, Part1 **(Technion-Israel Institute of Technology, Israel)-2016**
2. Basic Steps in Magnetic Resonance (**EPFL, Switzerland**)-**2016**
3. Introduction to Chemistry: Structures and Solutions (**Duke University, USA**) **2015**
4. Introduction to Physical Chemistry (**University of Manchester, UK**)-**2016**
5. Introduction to Molecular Spectroscopy **(University of Manchester, UK)2017**
6. NPTEL-MOOCs on Analytical Chemistry**-IIT, Kharagpur-2018**
   SWAYAM-ARPIT on Online Refresher Course in Chemistry for Higher Education Faculty**-2018.**
7. **NPTEL – AICTE - FDP** on Organometallic Chemistry**-IIT, Madras-2019**
8. **SWAYAM-ARPIT** on Online Refresher Course in Chemistry for Higher Education Faculty**-2019**
9. **NPTEL – MOOCs** on Basics in Inorganic Chemistry**-IIT, Bombay-Feb 2022**

Seminars Organized:

1. As an **Organizing Secretary**- UGC Sponsored Two-Day National Seminar on **"Modern Trends in Chemistry Research"** 27th & 28th, January-2017
2. **Convenor for National Level COVID-19: Ideathon** on 15-06-2020 Sponsored 6000/- for Winners

Curriculum Designed for Certificate Course:

1. Spectral Identification of Organic Compounds: AY-2022-2023
2. Characterization of Organic Compounds using UV- 'H-NMR and Mass Spectromatric Data': AY-2021-2022
3. Chromatographic techniques: AY-2020-2021
4. Hands on Practice on column,TLC and Paper chromatography Techniques: AY 2019-2020
5. ChemDraw-Drawing of Chemistry: AY-2018-2019

Research Area of Interest:

i) Molecularly Imprinted Polymer Based Sensors
ii) Instrumental Analysis: LC-MS, HRMS, HPLC, Ion-Chromatography, IR Spectrometer, UV-Vis Spectrometer.
iii) Ionic Liquids in Separation science;
iv) NMR-Chiral Shift Reagents;
v) Impurity Profiling of Drugs
vi) Stability/Degradation studies of Drugs