Biodata of Dr. B. Ramachandra

Current Position:

Associate Professor, Department of Chemistry,
Government College for Men (Autonomous),
Kadapa, Andhra Pradesh, India
Mobile: (+91)-9492753765
E-mail: bramachandra84@gmail.com

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

Honors & Awards:

1. **State Best Teacher Award-2024 in Chemistry, Govt. of Andhra Pradesh**
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 **: 20 (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 **: 363**

Certified Peer Reviewer:

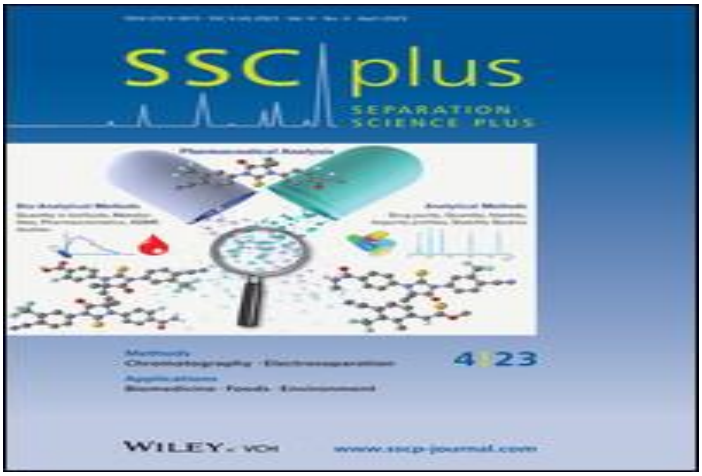
1. ACS Reviewer Lab, ACS Publications, Washington, DC (USA)-2019
2. Publons Academy, Web of Science (USA)-2019
3. Researcher Academy, Elsevier (Netherlands)-2019

Review Activities (ORCID Verified): 14 Journals

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

Papers Published at Cover Page of Separation Science Plus

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-20 (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	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)**
6	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)
7	Enantioseparation of DPP-4 Inhibitors on Immobilized Crown Ether-Based Chiral Stationary Phase	**Chromatographia, 81, 2018, 1705–1710**	2.213 (Springer) **(Scopus)**
8	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)**
9	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)**
10	Development of impurity profiling methods using modern analytical techniques	**Critical Reviews in Analytical Chemistry,** 47, **2017,** 24-36	5.686 (Taylor & Francis) **(Scopus)**

11	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)**
12	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)**
13	LC-MS/MS characterization of degradation products of Darunavir	***Journal of Pharmaceutical and biomedical analysis*** 89, **2014,** 28-33	**3.571** (Elsevier) **(Scopus)**
14	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)**
15	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)**
16	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)**
17	Rapid determination of rifaximin on dried blood spots by LC-ESI-MS	***Biomedical Chromatography***, 25 (**2011**) 1201–1207	**1.911** (Wiley) **(Scopus)**
18	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
19	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)**
20	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)**

Curriculum Designed and Course Material Prepared for B.Sc - Analytical Chemistry

1. Basics of Chemical Analysis
2. Quantitative Methods of Analysis
3. Analysis of Industrial Products
4. Chromatographic Methods of Analysis
5. Spectroscopic Methods of Analysis
6. Instrumental Methods of Analysis
7. Pharmaceutical Analysis

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.

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 Spectrometric Data': AY-2021-2022
3. Chromatographic techniques: AY-2020-2021
4. Hands on Practice on Column, TLC and Paper chromatography: AY 2019-2020
5. ChemDraw-Drawing of Chemistry: AY-2018-2019

Research Area of Interest:

1. Chemical Analysis of Various Industrial Products
2. Pharmaceutical Analysis
3. Instrumental Analysis: LC-MS, HRMS, HPLC, Ion-Chromatography, IR Spectrometer, UV-Vis Spectrometer.
4. Ionic Liquids in Separation Science
5. NMR-Chiral Shift Reagents
6. Impurity Profiling of Drugs
7. Stability/Degradation Studies of Drugs