Curriculum Vitae



Dr.Vijay Parewa M.Sc., Ph.D. MRSC Official Address: Organic Synthesis & Green Chemistry Laboratory Department of Chemistry University of Rajasthan, Jaipur E-mail: parewavijay.parewa@gmail.com

Residential Address:

P.NO-359, Out Side of Char Darwaja, Mandi Khatikan, Jaipur, (Raj.)-302004 Mb: 09530273920

<u>PRESENT STATUS</u>	Assistant Professor (since 2014), Department of Chemistry, University of Rajasthan, Jaipur.
POSITIONS SERVED	CSIR Research Associate (2013-2014), Department of Chemistry, University of Rajasthan, Jaipur
EDUCATION	Ph.D.: Chemistry, Department of Chemistry, University of Rajasthan, Jaipur
	M.Sc.: Chemistry (2009, Specialization in Organic Chemistry) Department of Chemistry, University of Rajasthan, Jaipur
RESEARCH PROFILE	Structure tailoring and catalytic activity assessment of advanced materials.
Research interest:	♣Focused at accountable attributes for the synthetic organic chemistry in aqueous medium.
interest.	Diversified synthesis of biologically relevant scaffolds using cleaner chemical processes.
	Sustainable construction of C-N, C-C and C-O bonds: Synthesis of value added materials.
	✤ Catalytic C-H activation and functionalization: A complementary tool in the synthesis of novel heterocyclic.
	PSelectivity (regio, chemo, diastereo) based approach for synthesis of
	Selectivity (regio, chemo, diastereo) based approach for synthesis of novel heterocycles.
	novel heterocycles.

Research achievements:

H-Index = 10; Total I. F. = 93.28.; Citation Factor = 322 (Source: Google Scholar) Total Publications: 23 (As on May, 2019)
 Supervision of M.Sc. Projects - 06
 Supervision of DST inspire student - 04

Books/MonographsContributed two chapters in International Booksentitled "GreenChemistry: Synthesis of Bioactive Heterocycles"(2014) published bySpringer Publications, Germany (ISBN: 978-81-322-1849-4)

&

"Multicomponent Reactions: Synthesis of Bioactive Heterocycles" (2016) published by CRC Press, *Taylor and Francis Publications*, United States of America (ISBN 9781498734127 - CAT# K26349).

Selected publications

• Imposed hydrophobic interactions by NaCl: Accountable attribute for the synthesis of spiro[acenaphthylene-1,5'-pyrrolo[1,2-c]thiazole] derivatives via 1,3-dipolar cycloaddition reaction in aqueous medium. Dandia A.; Kumari S.; Bansal S., Sharma A. ; Parewa V. Green Chem., 2016, 18,2488. [Impact Factor: 9.15]

• Step-economic, efficient, ZnS nanoparticle-catalyzed synthesis of spirooxindole derivatives in aqueous medium via Knoevenagel condensation followed by Michael addition. Dandia, A.; Jain, A. K.; Rathore, K. S. ; Parewa, V.Green Chem. 2011, 13, 2135. [Impact factor: 9.15]

• Cu doped CdS nanoparticles: A versatile and recoverable catalyst for chemoselective synthesis of indolo[2,3-b]quinoxaline derivatives under microwave irradiation. Dandia, A.; Maheshwari, S.; Rathore, K. S. ;J Parewa, V. Mol. Catal. A: Chems. 2014, 394, 244. [Impact Factor: 3.93]

• Cobalt doped ZnS nanoparticles as a recyclable catalyst for solventfree synthesis of heterocyclic privileged medicinal scaffolds under infrared irradiation. Dandia, A.; Gupta S. L.; Rathore, K. S. ; Parewa, V. J. Mol. Catal. A: Chem. 2013, 373, 61. [Impact Factor: 3.93]

• Microwave-assisted Nanocatalysis: A CuO NPs/rGO Composite as an

Efficient and Recyclable Catalyst for the Petasis-borono-Mannich Reaction., Dandia, A.; Bansal S.; Sharma R.; Rathore, K. S.; **Parewa, V.** 2018, **RSC Adv.**, 8, 30280-30288. **[Impact Factor: 3.84]**

• Amidic C-N bond cleavage of isatin: Chemoselective synthesis of pyrrolo[2,3,4-kl]acridin-1-ones using Ag NPs decorated rGO composite as an efficient and recoverable catalyst under microwave irradiation. Dandia A.; Sharma A.; Kumawat B.; Rathore K. S.; Sharma A. ; **Parewa V. RSC Adv.** 2015, 5, 91888. **[Impact Factor: 3.84]**

• An efficient ultrasound-assisted one-pot chemo- selective synthesis of pyrazolo[3,4-b] pyridine-5-carbonitriles in aqueous medium using NaCl as a catalyst. Dandia, A.; Gupta, S. L.; Parewa, V. RSC Adv. 2014, 4, 6908. [Impact Factor: 3.84]

• Synthesis and characterization of CdS and Mn doped CdS nanoparticles and their catalytic application for chemoselective synthesis of benzimidazoles and benzothiazoles in aqueous medium. Dandia, A.; Rathore, K. S.; Parewa, V. Cata. Commun. 2012, 28, 90. [Impact factor: 3.69]

Microwave-assisted Fe₃O₄ nanoparticles catalyzed synthesis of chromeno[1,6]naphthyridines in aqueous media. Dandia, A.; Gupta, S. L.; Sharma, A.; Rathore, K. S.; Sharma, A.; Jain, A. ; Parewa, V. Cat. Comm. 2015, 61, 88. [Impact Factor: 3.69]

• CeO₂NPs/rGO Composite Catalyzed Chemoselective Synthesis of 2,8 dioxabicyclo[3.3.1]nonanes in Aqueous Medium via Aldol Condensation/ Michael addition/bicyclization Reaction Sequence., Dandia, A.; Sharma, A.; Indora A.; Rathore K. S.; Sharma, A.; Jain A.; Parewa, V. 2018, Molecular Catalysis, 459, 97-105.

• "On-water" synthesis of 3-substituted indoles via Knoevenagel/Michael addition sequence catalyzed by Cu doped ZnS NPs. Dandia, A.; Gupta, S. L.; Sharma, A.; Rathore K. S.; Sharma, A.; Parewa, V. Tetrahedron Lett. 2013, 54, 5711. [Impact Factor: 2.38]

• Ag NPs decked GO composite as a competent and reusable catalyst for 'ON WATER' chemoselective synthesis of pyrano[2,3-c:6,5c']dipyrazol]- 2-ones. Dandia A.; Gupta S. L.; Indora A.; Saini P.; Rathore K. S. ; **Parewa V. Tetrahedron Letters** 2017, 58, 1170. [Impact Factor: 2.38]

• PC-ZnO Nanocomposites as efficient and reusable catalyst for the synthesis of α , β -unsaturated compounds and aldimines. Dandia, A.;

Gupta, S. L.; Sharma, A.; Agarwal, N. K. ; **Parewa, V. Cur. Org. Chem**. 2014, 18, 2652. **[Impact factor: 2.15]**

• "On Water" Sustainable Synthesis of 1,5-Disubstituted Tetrazoles via Ugi-Azide Reaction through Perturbation of Kosmotropes Using NaCl. Anshu Dandia, Shahnawaz Khan, Ruchi Sharma, Sonam Parihar, and Vijay Parewa, Chemistry Select 2017, 2, 9684 – 9690. [Impact Factor: 1.5]

R & D Projects

S.N.	Title	Name of funding agency	Duration
1	Appraisal of catalytic activity and structure couture of nanomaterials towards sustainability	SERB-INDIA	2016-2019
2	Synthesis of highly diverse anticancer N-heterocycles library via multi-component based novel chemical transformations	CSIR-INDIA	2015-2018
3	Exploration of new catalysts and reaction conditions in the synthesis of multifunctional bioactive heterocyclic compounds	UGC-INDIA	2014-2016

RESEARCH EXPERIENCE

Six years.

TEACHING EXPERIENCE

Undergraduate level: Five years.

Post graduate level: Five years.

SOME HIGHLIGHTS:

- ✓ 4th most accessed article (January-March 2015): PC-ZnO Nanocomposites as Efficient and Reusable Catalyst for the Synthesis of α,β
 Unsaturated Compounds and Aldimines, Curr. Org. Chem. 2014, 18, 2652-2664.
 - ✓ One of the most viewed/ downloaded article (August 2013-April 2014): "On-water" synthesis of 3-substituted indoles via Knoevenagel/Michael addition sequence catalysed by Cu doped ZnS NPs, Tetrahedron Lett. 2013, 54, 5711-5717.

REVIEWER:	Polycyclic Aromatic Compounds, RSC Advances, Chemistryselect, New Journal of Chemistry, Nanoscale, Catalysis letter and in many other journals of highly reputed publishing houses
AWARDS/ SCHOLARSHIPS	 ✓ Honoured as "Member of Royal Society of Chemistry" (MRSC), London. ✓ Early Career Research Award (ECRA) by Science and Engineering Research Board, Department of Science & Technology, Government of India in 2016 ✓ Awarded as CSIR-RA by CSIR, New Delhi, Delhi, India ✓ Start-Up Research Grant by UGC. New Delhi, India (2014-2016)
SCIENTIFIC COMMITTEES	Life member, Society of Material Chemistry (SMC), India Life member, Material Research Society of India, India Life member, Indian Science Congress, India Life member, Indian Chemical Society, India Life member, Indian Association of Chemistry Teachers, India. Life member, Society for promotion of education and science, India.
ADMINISTRATIVE/ ACADEMIC ASSIGNMENTS UNIVERSITY ASSIGNMENTS:	<u>As Member:</u> ➢ Rashtriya Uchchatar Shiksha Abhiyan (RUSA), University of Rajasthan, Jaipur. ➢ Election Committee , University of Rajasthan, Jaipur,
DEPARTMENTAL ASSIGNMENTS:	 Convener and Member of various important functional committees as: Instrumentation & Planning Committee Alumini Association Committee Curriculum Development and Admission Committee Library Committee Credit Monitoring Committee and Awards Committee Cultural events and Compilation of Results committee Examination Committee, Publishing Committee and Syllabus Committee Project Implementation Group under the CAS & FIST Programme, and various other committees at Department of Chemistry, University of Rajasthan, Jaipur.

ACADEMIC ACTIVITIES

- Joint Organizing Secretary, International conference on Frontiers at the Chemistry - Allied Sciences Interface jointly organized by Department of Chemistry, University of Rajasthan, Jaipur and Indian Society of Chemists and Biologist, Rajasthan chapter and Chemical Research Society of India Rajasthan chapter during December 21-22, 2018
- Joint Organizing Secretary, National Conference on Recent Advances at Interfaces of Physical and Life Sciences (RAPILS-2018) organised by Department of Chemistry, University of Rajasthan, Jaipur during July 6-7,2018
- 3. Joint Organizing Secretary, Workshop on "NMR Spectroscopy : Concepts and Applications",2018
- 4. Coordinator, **Frontiers at the Chemistry-Allied Sciences Interface**", organized by Department of Chemistry, University of Rajasthan, Jaipur during July 22-23, **2017**.
- Co-organizing secretary ; One day Workshop on Intellectual Property Rights "Awareness and Training Programme" (IPRATP-2018) organised by Department of Chemistry ,University of Rajasthan , Jaipur during February 24,2018
- Coordinator, International Conference on "Frontiers at the Chemistry-Allied Sciences Interface", organized by Department of Chemistry, University of Rajasthan, Jaipur during April 25-26, 2016.
- Coordinator, National Conference on "Frontiers at the Chemistry-Allied Sciences Interface", organized by Department of Chemistry, University of Rajasthan, Jaipur during March 14-15, 2015.
- Co-ordinator, IIIrd Rashtriya Hindi Vigyan Sammelan organized by Vigyan Bharti, Rajasthan, 2016.
- 9. Co-convener **Rashtriya Hindi Vigyan Sangosthi organized** by Vigyan Parishad Prayag and Department of Chemistry, **2016**.
- Joint Organizing Secretary, National workshop on Basic Aspects of Quantum and Theoretical Chemistry and Applications (BAQTCA 2015) organized by University of Rajasthan during August 17-21,2015

INVITED TALKS /PAPERS PRESENTED IN INTERNATIONAL /NATIONAL CONFERENCES

- National conference on Recent Trends and Advancements in Chemical Sciences organized by Conference Center, University of Delhi, Delhi (India) during March 29-31, 2019
- National conference on Energy and Environment: Perspective & Chanlleges (NCEE-2019) organized by Department of Chemistry, JNV University, Jodhpur, Rajasthan (India) during March 9-10, 2019
- International conference on Recent Development in Chemical Research (RDCR-2019) organized by Department of Chemistry, IIS University, Jaipur, Rajasthan (India)during Feb 1-2, 2019
- 4. International conference on Frontiers at the Chemistry Allied Sciences Interface jointly organized by Department of Chemistry, University of Rajasthan, Jaipur and Indian Society of Chemists and Biologist Rajasthan chapter and Chemical Research Society of India Rajasthan chapter during December 21-22, 2018
- International conference on Materials for Energy Applications organized by S.S. Jain Subodh P.G. (Autonomous) College, Jaipur during December 6-8,2018
- 24th ISCB International conference (ISCBC-2018) on Frontier Research in Chemistry and Biology Interface jointly organized by Department of Chemistry, Manipal University, Jaipur and Indian Society of Chemists and Biologist, Lucknow during January 11-13, 2018
- National Conference on Recent Advances at Interfaces of Physical and Life Sciences (RAPILS-2018) organised by Department of Chemistry, University of Rajasthan, Jaipur during July 6-7,2018
- National conference on Recent Trends and Advancements in Enviormental Issues, Awareness and Health organized by JECRC University, Jaipur, Rajasthan (India) during November 17-18, 2017
- National Symposium on Global Environment Challenges: Present Scenario organized by Department of Botany, University of Rajasthan, Jaipur, Rajasthan (India) dated January 17, 2017
- International Conference on "Frontiers at the Chemistry-Allied Sciences Interface", organized by Department of Chemistry, University of Rajasthan, Jaipur during July 22-23, 2017.
- 11. International Conference on "Frontiers at the Chemistry-Allied Sciences Interface", organized by Department of Chemistry, University

of Rajasthan, Jaipur during April 25-26, 2016.

- IIIrd Rashtriya Hindi Vigyan Sammelan organized by Vigyan Bharti, Rajasthan and University of Rajasthan, Jaipur, during December 16-17, 2016
- Rashtriya Hindi Vigyan Sangosthi organized by Vigyan Parishad Prayag and Department of Chemistry, University of Rajasthan, Jaipur On March 19, 2016.
- 22nd ISCB International Conference on "Recent Trends in Affordable and Sustainable Drug Discovery and Developments", organized by Indian Society of Chemists and Biologists during Feb. 6-8, 2016.
- 15. 26t^h AGM Materials Research Society of India National Symposium on Materials for Inclusive Development organized by Department of Physics, University of Rajasthan, Jaipur, Rajasthan (India) during Feb 9-11, 2015
- National Conference on "Frontiers at the Chemistry-Allied Sciences Interface", organized by Department of Chemistry, University of Rajasthan, Jaipur during March 14-15, 2015.
- International Conference titled "New Emerging Trends in Chemistry" organized by Department of Chemistry, IIS University, Jaipur, 3-4th March, 2013.

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