



Janki Devi Bajaj Government Girls College Kota

FACULTY PROFILE

[Photo](#)

- 1 Name: Dr. Sarita Khandelwal
- 2 Designation: Assistant professor
- 3 Department: Chemistry
- 4 Educational Qualification:

Level	Name of University/Board	Year	Title/ Remark/ Medal
<i>P.G.</i>	Rajasthan University	2009	
<i>M.Phil.</i>			
<i>Ph.D.</i>	Rajasthan University	2014	
<i>Other</i>	Net JRF CSIR Gate UGC Women Scientist Post doc fellowship	2009 2009 2015	

1. Experience: Teaching / Research

UG	2 Years	PG	2 Years	Research	

Membership (Academic Bodies):

- 1.
- 2.
- 3.

3. M.O.O.C (Developed by Faculty):

4. Awards Received:

5. Academic Courses Attended:

Course	Place	Sponsoring Agency	Duration
<i>Orientation Course Induction course</i>	Jaipur	UGC HRDC- Rusa Rajasthan University	15 July 2019 to 10 August 2019

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<i>Other (Workshop/ Summer School/ Camp etc.)</i> <i>Faculty development program</i>	Kota	Govt. College Kota	14-15 Feb 2020

Online F..D.P (Faculty Development Programme)attended	Gyan Ganga Program	R.R. College Alwar	25 January -31 Jaunary
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6. Seminar/ Conference attended:

Name of Seminar/ Conference	Internat./ National/ Regional	Paper Presented	Title of Paper	Date
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7. Organizing Sec./Convener of conference/seminar/webinar :

8. Resource Person:

In training Programme	
In conferences/Seminars (Chair/Co-Chair of Session)	

12. Research Publications

S.No.	Title of the paper	Title of the journal	Year of publication	Citation Index	H Index	Impact Factor
1	Multicomponent synthesis of dispiroheterocycles using a magnetically separable and reusable heterogeneous catalyst	RSC Advances	2020	128	1	3.070
2	Synthesis and characterization of terbium doped TiO ₂ nanoparticles and their use as recyclable and reusable heterogeneous catalyst for	Applied Organometallic Chemistry	2020	66		3.581

	efficient and environmentally sustainable synthesis of spiroannulated indolo[3,2-c]quinolines- mimetic scaffolds of isocryptolepine					
3	Efficient and Sustainable Synthesis of Spiroannulated Hybrid Molecules with Privileged Substructures using Nanostructured Heterogeneous Catalyst	Chemistryselect	2020	25		1.811
4	Efficient and environmentally sustainable domino protocol for the synthesis of diversified spiroheterocycles with privileged heterocyclic substructures using bio-organic catalyst in aqueous medium	Molecular Diversity	2020	56	1	2.229
5	Deep eutectic solvent promoted synthesis of structurally diverse hybrid molecules with privileged heterocyclic substructures	New Journal of Chemistry	2019	112	7	3.288
6	An efficient and environmentally sustainable domino protocol for the synthesis of structurally diverse spiroannulated pyrimidophenazines using erbium doped TiO ₂ nanoparticles	RSC advances	2018	128	8	3.070
7	Use of Nanomagnetic Sulfated Zirconia (Fe ₃ O ₄ @ZrO ₂ /SO ₄ ²⁻) as Sustainable Heterogeneous Acid Catalyst for Synthesis of Spiroheterocycles under Solvent-Free Conditions	ChemistrySelect	2017	25	10	1.811
8	Diversity-Oriented Synthesis of Spirooxindoles Using Surface-Modified TiO ₂ Nanoparticles as Heterogeneous Acid Catalyst	ChemistrySelect	2017	25	11	1.811
9	Efficient and Green Synthetic Protocol for the Synthesis of Structurally Diverse Spiroheterocycles using GAAS as Catalytic Solvent	Current Organocatalysis	2017	8	1	1.028
10	An Efficient and Environmentally Benign Diversity-Oriented Multicomponent Synthesis of Privileged Substructures Based Spirooxindoles Using TiO ₂ Nanoparticles as Heterogeneous Catalyst	Current catalysis	2016		1	
11	l-Proline catalyzed multicomponent reactions	Current Organocatalysis	2016	8	9	1.028
12	Deep eutectic solvents (DESs) as eco-friendly and sustainable solvent/catalyst systems in organic transformations	Journal of Molecular Liquids	2016	96	188	5.065
13	Natural Product-Mimetic	Journal of	2016	57	5	1.484

	Scaffolds with Privileged Heterocyclic Systems: Design, Synthesis, and Evaluation of Antioxidant Activity of Quinazoquinobenzothiazinones	Heterocyclic Chemistry				
14	An Efficient and Environmentally Benign One-pot Three-Component Domino Protocol for the Synthesis of Structurally Diverse Spiroquinazolines	Current catalysis	2015		2	
15	Environmentally benign synthetic protocol for the synthesis of spiroquinazolinones using sustainable and recyclable choline chloride based deep eutectic mixture	Current Organic Synthesis	2015	44	5	2.157
16	Efficient and Environmentally Benign Diversity Oriented Synthesis of 2, 3-dihydroquinazolin-4 (1H)-ones Using GAAS As a Bio-based Green Solvent	Current Green Chemistry	2015		2	
17	Synthesis and evaluation of antioxidant and radical scavenging activities of quinolinobenzothiazinones	Research on Chemical Intermediates	2015	43	5	2.262
18	Diversity Oriented p-TSA Catalyzed Efficient and Environmentally Benign Synthetic Protocol for the Synthesis of Structurally Diverse Heteroannulated Benzothiazolopyrimidines	Current Organocatalysis	2015	8	3	1.028
19	An efficient one pot three-component nanocatalyzed synthesis of spiroheterocycles using TiO ₂ nanoparticles as a heterogeneous catalyst	RSC Advances	2015	128	26	3.070
20	A simple, efficient and environmentally benign synthetic protocol for the synthesis of spirooxindoles using choline chloride-oxalic acid eutectic mixture as catalyst/solvent system	Combinatorial chemistry & high throughput screening	2014	59	13	1.205
21	A Tandem and Domino Protocol for Synthesis of Chromeno-, Pyrano-and Quinolinofused Spiro [pyrazolo [3, 4-b] pyridine-indolines]	Current Organic Chemistry	2014	100	5	2.142
22	L-Proline catalyzed synthesis of structurally diverse 1, 4-dihydropyridines fused with medicinally privileged heterocyclic systems	Current Organocatalysis	2014	8	6	1.080
23	Efficient and environmentally benign synthetic protocol for the synthesis of structurally diverse annulated pyridopyrimidines	Green Chemistry Letters and Reviews	2014	27	6	0.510

24	Deep eutectic solvent promoted efficient and environmentally benign four-component domino protocol for synthesis of spirooxindoles	RSC Advances	2014	128	43	3.070
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8. Research Projects:

Title of the Project	Year	Name of funding agency	Fund available/ utilized	Present status

9. Research Supervision:

- **Basic Field of specialization:**

❖ **Ph.D.**

Name of Student	Title of thesis	Present status	Date and Year of Award, if so

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10. Monograph/ Book / Chapter (in Edited Book)/Chapters in study material of Open universities

• **Book (Single Author)**

Title of Book	ISBN/ ISSN No.	Publisher with Place	Year of Publication

• **Chapter(s) in Book (Edited / multi-author)**

Title of Chapter	Authors / Editors	Name of the Book with ISBN/ ISSN No.	Publisher with Place	Year of Publication
Use of sustainable organic transformations in the construction of heterocyclic scaffolds	Sarita Khandelwal, Yogesh Kumar Tailor, Esha Rushell, Mahendra Kumar	Green Approaches in Medicinal Chemistry for Sustainable Drug Design	Elsevier ISBN: 9780128175934, 0128175931	2020

13 Sports Activities:

14 Extra Curricular Activities:

15. Any Other Relevant Information/Contributions

1.

