

**Shri Shivaji Education Society Amravati's**  
**Mahatma Fule Art's, Commerce and Sitaramji Chaudhari**  
**Science, Mahavidyalaya, Warud, Dist- Amravati**

**FACULTY PROFILE**



**Name** : **Dr. Atul Krishnarao Wanjari**  
**Qualification** : M.Sc., Ph.D  
**Designation** : Assistant Professor  
**College** : Mahatma Fule Art's, Commerce and Sitaramji  
 Chaudhari Science College, Warud  
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**Date of Birth** : 29<sup>th</sup> April 1989  
**Nationality** : Indian  
**Academic qualification Detail** :

Exam passed	College/Institute	Board/University	Subjects/ Specialization	Year of Passing	Division
SSC	Janata High School, She-ghat	Amravati	Math., Science	2004	II
HSSC	Janata High School, She-ghat	Amravati	Chemistry, Biology, Physics	2006	II
B.Sc.(CBZ)	M.F.M. Warud	SGBAU	Chemistry, Botany, Zoology	2010	II
M.Sc.(Chemistry)	M.F.M. Warud	SGBAU	Organic Chemistry	2012	I
Ph. D.	M.F.M. Warud	SGBAU	Adsorption Chemistry	2018	

**Experience Teaching** : UG- 01 yrs. PG- 04 yrs.  
**Research** : 04 yrs.  
**Ph.D. thesis title** : To study the effect of impregnation of activated Carbon with chelating agents and adsorption Kinetics of some toxic metal ions.  
**Ph.D. Supervisor** : Prof. Dr. U. E. Chaudhari

**Area of Research** : Adsorption Chemistry, Nano-chemistry, Medicinal Chemistry, Synthetic Chemistry

**Papers Published** : 27

**Papers Presented** : International: 01 National: 03

**Invited Talk & Guest lectures** : 03

**Conference/Workshop Attended** : International: 01 National: 06

### RESEARCH PROFILE

#### 1. Research Papers published in journals:

Sr. No.	Title	Name of the Authors as mentioned in paper	Journal, Vol. No., Page No., Year	Impact Factor	ISSN No.
1	Green synthesis of Iron oxide nanoparticles using water extract from leaves of Ficus Racemosa.	A.K. Wanjari	International Journal of Green and Herbal Chemistry, Section-A, Vol 7, No.3, 623-628, June-August 2018	1.79	2278-3229
2	Removal of Cr (VI), Pb(II), Mn(II), and Bi (III) from Aqueous solution granular activated charcoal prepared from Cordia Macleodii Tree bark	A. K. Wanjari, U.E. Chaudhari	Rasayan Journal of Chemistry, Vol 10 (1), 82-85, January-March 2017	0.29	ISSN: 0974-1496 ( e-ISSN: 0976-0083)
3	Granular Activated Charcoal Prepared from Cordia Macleodii Tree Bark A Novel Adsorbent for The Removal of Lead (II) Characterization Via Sem-Edax, Ftir Techniques	A. K. Wanjari, U.E. Chaudhari	International journal of researches in biosciences & agriculture technology, 5(2), 172-176, 2017	5.36	ISSN No.2347-517X
4	Characterization Of Chloroform Extract Of Cordia Macleodii Leaf For Possible Application In Dye Sensitized Solar Cell	A. K. Wanjari, U.E. Chaudhari	International Journal Of Engineering Sciences & Research Technology, 5(3): March, 2016	5.16	ISSN: 2277-9655
5	Adsorption, Kinetics and Equilibrium Studies on Removal of Mn (II) From Aqueous Solutions Using	A.K. Wanjari, U.E. Chaudhari	International Research Journal of Environment Sciences Vol. 5(12), 47-55, 2016.	0.67	E-ISSN : 2319 - 1414

	Surface Modified Granular Activated Charcoal as a Low-Cost Adsorbent				
6	Removal of Cr (VI) from aqueous solution using granular activated charcoal prepared from Cordia Macleodii tree bark and surface modified granular activated charcoal: A comparative study via spectroscopic characterizations	A.K. Wanjari, U.E. Chaudhari	International Journal of Engineering Sciences & Research Technology, 5(10), 304-316, October 2016	5.16	ISSN: 2277-9655
7	Adsorption Of Manganese (II) By Nitric Acid Treated Granular Activated Charcoal Prepared From Cordia Macleodii Tree Bark	A.K. Wanjari	Der Pharma Chemica, Volume 8, Issue 18, Pages 87-94, 2016	0.14	ISSN: 0975-413X
8	Physico-Chemical And Microbial Analysis Of Water And Soil Samples In Proposed Coal Mine Area At Vidharbha Region, Maharashtra, India	A.K. Wanjari U.E. Chaudhari	IJESRT, Volume 5, Issue 5, Pages 526-530, 2016	5.16	ISSN: 2277-9655
9	Analysis of Water Quality Using Physico-Chemical Parameters from Various Dams of Amravati District, Maharashtra, India	A.K. Wanjari U.E. Chaudhari	International Journal of Scientific Engineering and Applied Science, Volume 2, issue 8, Pages 317-325, 2016.	3.46	ISSN: 2395-3470
10	Assessment of macro and micro nutrients in alkaline soil from Satpuda region Orange Belt, Maharashtra, India	A.K. Wanjari U.E. Chaudhari	Advances in Applied Science Research, 7(3):175-178, 2016	3.52	ISSN: 0976-8610
11	Green synthesis of ZnO nanoparticles using leaves extract Cassia Fistula and doped with Copper (Cu:ZnO:NPs) to enhance the activity of antibiotics against Staphylococcus Aureus	A.K. Wanjari, Gopal Shende	European Journal of Biomedical and Pharmaceutical Sciences, Volume 2, Issue 5, Pages 573-579, 2015	6.04	ISSN: 2349-8870

12	Sodium Dodecyl Sulfate Impregnated Granulated Activated Charcoal For The Scavenging Of Cr (VI) Metal Ions From Aqueous Solution	A.K. Wanjari U.E. Chaudhari	International Journal Of Chemical And Physical Sciences, Special Issue – NCSC, 261-266, Jan-2015	1.81	ISSN: 2319-6602
13	Physico-Chemical Analysis Of Ground Water Affected By Ganapati Visarjan	A.K. Wanjari U.E. Chaudhari	International Journal of Advanced Research in Chemical Science (IJARCS), Volume 2, Issue 11, 2015	0.39	
14	Assessment Of Physico-Chemical Status Of Ground Water Taken From Different Sites Of Nagpur District And Amravati District, Maharashtra, India	A.K. Wanjari U.E. Chaudhari	American Journal Of Pharmatech Research, Volume 5, Issue 2, Pages 409-417, 2015	1.22	ISSN: 2249-3387
15	To Study Application Of Different Isotherm Models On Bismuth (III) Ions Adsorption Onto Impregnated Granular Activated Charcoal	A.K. Wanjari U.E. Chaudhari	American Journal Of Pharmatech Research, Volume 5, Issue 2, Pages 424-433, 2015	1.22	ISSN: 2249-3387
16	Surface Modified Charcoal For Scavenging Of Manganese (II) Metal Ions From Aqueous Solution	A.K. Wanjari U.E. Chaudhari	European Journal Of Biomedical And Pharmaceutical Sciences, Volume 2, Issue 3, Pages 426-433, 2015	6.04	ISSN: 2349-8870
17	Physico-Chemical Investigation of Quality of Drinking Water Affected by Ganapati Visarjan in Maharashtra, India	A.K. Wanjari U.E. Chaudhari	AMERICAN JOURNAL OF PHARMTECH RESEARCH, 5 (6), 395-401, 2015.	1.22	ISSN: 2249-3387
18	Studies In The Proximate Screening Of Leaves Of Some Medicinal Plants From Warud Tehsil, District Amravati, Maharashtra State, India	A.K. Wanjari U.E. Chaudhari	International Journal of Natural Products Research, 5 (4), 42-44, 2015		
19	Surface Modified Granular Activated Charcoal With Anionic Surfactant For Scavenging Of Co(II)	A.K. Wanjari U.E. Chaudhari	International Journal of Biosciences, Agriculture and Technology, Special Issue-3, Pages 93-99, 2015	5.06	ISSN: 2347-517X

	Metal Ions From Aqueous Solution : Thermodynamics And Kinetics				
20	Eco-Friendly Synthesis And Antimicrobial Activity Of N-[7-(5-Substitutedimino-3-Amino)-1,2,4-Dithiazolo-4-Yl]-N,N-Diethyl-Pentane-1,4-Diamine	A.K. Wanjari	American Journal Of Pharmatech Research, Vol.4(1),2014, 496-503, 2014	1.22	ISSN: 2249-3387
21	The Adsorption Kinetics of Cr (VI) Metal by Using Granulated Particles of Tamarindus Indica Seed	A.K. Wanjari U.E. Chaudhari	International Journal of Chemical and Physical Sciences, Vol. 3, No. 3, May-Jun 2014	1.81	ISSN: 2319-6602
22	Evaluation of Adsorption Efficiency of Ferronia Elefantum Fruit Shell for Rhodamine-B Retrieval from Aqueous Solution	A.K. Wanjari	International Journal Of Pharmaceutical And Chemical Sciences 2 (1), 457-460, 2013.	0.68	ISSN: 2277-5005
23	Analysis of Water by Using Physico-Chemical Parameters of Jamtala Region Water in Shendurjana-Ghat City, District –Amaravati, Maharashtra, India	A.K. Wanjari	International Journal Of Pharmaceutical And Chemical Sciences, 2 (3), 1157-1158, 2013	0.68	ISSN: 2277-5005
24	Studies In The Adsorption Of Environmentally Relevant Cr (VI) Metal By Using Granulated Particle Of Bauhinia Racemosa Fruit Shell	A.K. Wanjari U.E. Chaudhari	International Journal Of Chemical Science And Technology, Volume 2, Issue 4,Pages 61-64, 2012		ISSN: 2249-8532
25	Studies In The Adsorption Of Environmentally Relevant Cr (VI) Metal By Using Granulated Particle Of Bauhinia Racemosa Fruit Shell	A.K. Wanjari U.E. Chaudhari	International Journal of Chemical Science and Technology, 2 (4), 61-64, 2012		
26	Synthesis of N-[7-(1-substituted)-2, 4-Dithiobiureto)-4-YL]-N, N-Diethyl-Pentane-1, 4-Diamine	A.K. Wanjari	Oriental Journal of Chemistry, 27 (4), 1787, 2011	0.37	ISSN : 0970 - 020X, ONLINE ISSN :

					2231-5039
27	A Novel Synthesis And Antimicrobial Studies Of N-(7-Substitutedthiocarbamidoquinoline-4-Yl)-N,N-Diethyl-Pentane-1, 4-Diamine	A.K. Wanjari D.T. Tayade	Rasayan Journal of Chemistry, Vol.4, No.4 (2011), 834-837, 2011	0.29	ISSN: 0974-1496 ( e-ISSN: 0976-0083)

## 2. Full papers in conference proceedings:

Sr. No.	Name of Conference	Level	Title of Paper	Name of Authors as mentioned in paper	Place & Date	ISSN / ISBN No.
1	Recent trends in science and technology Sustainable development through scientific Approach	International	Granular Activated Charcoal Prepared from Cordia Macleodii Tree Bark A Novel Adsorbent for The Removal of Lead (II) Characterization Via Sem-Edax, Ftir Techniques	A.K. Wanjari U.E. Chaudhari	Science College Nagpur 12-14 <sup>th</sup> July 2017	
2	Sustainable Chemistry: Frontiers and Challenges [NCSC-2015]	National	Sodium Dodecyl Sulfate Impregnated Granulated Activated Charcoal For The Scavenging Of Cr (VI) Metal Ions From Aqueous Solution	A.K. Wanjari U.E. Chaudhari	Brijlal Biyani Science College Amravati, 30-31 <sup>st</sup> Jan. 2015	
3	Recent Researches in Chemistry: A Journey Towards Social Upliftment	National	Synthesis of N-[7-(1-substituted)-2, 4-Dithiobiureto)-4-YL]-N, N-Diethyl-Pentane-1, 4-Diamine	A.K. Wanjari	Lokmanya Tilak College Wani. 14-15 <sup>th</sup> Feb. 2012	

### 3. Papers presented in Conference / Seminar / Symposia / Workshop:

Sr. No.	Title of the paper	Title of the Event	Level	Organizer & Date	Mode of Presentation (Oral/Poster)
1	A Novel Synthesis And Antimicrobial Studies Of N-(7-Substitutedthiocarbamidoquinoline-4-Yl)-N,N-Diethyl-Pentane-1, 4-Diamine	Recent Trends in Plant Biotechnology	National Seminar	Dept. of Botany, M.F.M. Warud (M.H) 28 <sup>th</sup> Jan 2012	Poster
2	Water Conservation in California region of vidharbha	Recent innovations in role of free radical on global warming	National Seminar	Dept. of Chemistry, M.F.M., Warud (M.H.) 31 <sup>st</sup> March 2012	Poster
3	Adsorption of Bi(III) metal ions from synthetic aqueous solution using low cost adsorbent and to study adsorption behavior through characterization and kinetics	Current and Emerging Trends in Green Chemistry	Two Days National Seminar	R.C. Patel Art, Commerce and Science College, Shirpur, (M.H.) 18-19 <sup>th</sup> January 2017	Poster
4	Synthesis of N-[7-(1-substituted)-2, 4-Dithiobiureto)-4-YL]-N, N-Diethyl-Pentane-1, 4-Diamine	Chemistry of Natural Product	National Seminar	Dept. of Chemistry Krishna University, Andhra Pradesh (A.P) 28-29 <sup>th</sup> Nov. 2011	Poster

**4. Special Achievement:** 1. Secured 3<sup>rd</sup> Prize in Poster presentation at Two Days National Conference on Current & Emerging Trends in Green Chemistry Organized by R.C. Patel Arts, Commerce & Science College, Shirpur (M.H.) on the dated 18-19<sup>th</sup> January 2017.

2. Secured 3<sup>rd</sup> Prize in UGC Sponsored university level Seminar competition on the revelry of “International Year of Chemistry”

organized by Dept. of Chemistry, Vidya Bharati College Amravati on the dated 24<sup>th</sup> March 2011.

- 5. Industrial Experience:**
1. Worked as R&D Group Leader in *Inventys Research Company pvt ltd. Nagpur* from the dated 08/05/2017 to 14/12/2017.
  2. Worked as R&D Chemist at *Roha Dye Chem Pvt Ltd.* Andheri East, Mumbai from the dated 25/12/2017 to 14/11/2018.