

## **CURRICULAM VITAE**



***Dr. Shivaji Rauba Kulal***

M.Sc.,Ph.D.

A/P- Sunetra Colony, Palace Road

Jath, Tal- Jath, Dist- Sangli.

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### ***CAREER OBJECTIVE:-***

To establish myself as an efficient professional in seeking a challenging position in an organization, where I will put all hard work and talent in the betterment of the organization. Also I pursue a challenging role in dynamic concern and achieve perfection through performance in the field.

### ***ACADEMIC QUALIFICATIONS***

DEGREE	SUBJECT	UNIVERSITY/BOARD	MONTH & YEAR OF PASSING	PERCENTAGE	CLASS OBTAINED
Ph.D.	Chemistry	Shivaji University,Kolhapur	Nov-2011	Awarded	Awarded
M.Sc.	Inorganic Chemistry	Shivaji University,Kolhapur	May-2005	61.58%	First
B.Sc.	Chemistry	Shivaji University,Kolhapur	Apr-2002	62.08%	First
H.S.C.	PCB	Kolhapur Board	Feb-1999	61.83%	First
S.S.C.	—	Kolhapur Board	Mar- 1997	65.06%	First

## **TEACHING EXPERIENCE**

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Name of College	Type of Lectureship	Experience
Devchand College Arjunagar, Tal-Kagal, Dist-Kolhapur	Fulltime	10 <sup>th</sup> January 2006 to 2 <sup>nd</sup> Dec.2011 (6yrs)
Jaysingpur College Jaysingpur, Tal-Shirol, Dist- Kolhapur.	Visiting Faculty for M.Sc.Analytical Chemistry	2010-11 & 2011-12
Dr. Patangrao Kadam College Sangli.	Visiting Faculty for M.Sc. Analytical Chemistry	2012-13
<b>Raje Ramrao College Jath</b>	Fulltime (C.H.B.)	2012-13 & 2013-14 (2yrs)
<b>Raje Ramrao College Jath</b>	Fulltime	From 18/03/2014 till date

## **EXAMINERSHIP**

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1. Successfully worked as a **Paper assessment of theory** Examination of B.Sc.-II & III/Sem- IV & V conducted by Shivaji University, Kolhapur, at Balwant College Vita.
2. Successfully worked as a **Paper assessment of theory** Examination of B.Sc.-I/Sem-I conducted by Shivaji University, Kolhapur.
3. Successfully worked as a **Revaluation** of B.Sc.-I/Sem-II theory Examination conducted by Shivaji University, Kolhapur.
4. Successfully worked as an **Internal** and **External** Under Graduate Practical **Expert** of Shivaji University, Kolhapur.
5. Successfully worked as an **Internal** and **External** Under Graduate Practical **Examiner** of Shivaji University, Kolhapur.
6. Successfully worked as a **External senior Supervisor** of theory Examination conducted by Shivaji University, Kolhapur.
7. Successfully worked as a **Internal senior Supervisor** of theory Examination conducted by Shivaji University, Kolhapur.
8. Successfully worked as a **Junior Supervisor** on Theory under Graduate Examination of Shivaji University, Kolhapur.

## **RESEARCH WORK**

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**Research area:**-Material Science, Nanotechnology, Catalysis

**Research Title for Ph. D. Degree course:** Synthesis and Structural Characterization of Mixed Metal oxides Containing Transition Metals and Lanthanide ions.

## RESEARCH PUBLICATIONS

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- 1) **Shivaji R. Kulal** , Sanjay S. Khetre , Pramod N. Jagdale , Vashishtha M. Gurame , Duryodhan P. Waghmode, Govind B. Kolekar , Sandip R. Sabale , Sambhaji R. Bamane, "Synthesis of Dy Doped Co-Zn ferrite by sol-gel auto combustion method and its characterization." *Materials Letters*, 84(2012)169-172.
- 2) Kashmiri A. Khamkar, **Shivaji R. Kulal**, Pramod N. Jagdale, Sambhaji R. Bamane & Vishwas V. Dhapte, "Synthesis, characterization and electrical properties of nanostructured LaAlO<sub>3</sub> by sol-gel auto combustion method" *J Mater Sci: Mater Electron*, DOI 10.1007/s10854-013-1428-3.
- 3) PRAMOD N. JAGDALE, **SHIVAJI R. KULAL**, MEGHANATH G. JOSHI, PRAMOD P. JAGTAP, SANJAY M. KHETRE, SAMBHAJI R. BAMANE, "Synthesis and characterization of nanostructured CaSiO<sub>3</sub> biomaterial" *Materials Science-Poland* (31) 2013 269–275
- 4) Khetre S. M., **Kulal S. R.**, Chopade A. U., Jadhav H. V., Jagdale P. N., Bangale S. V., Bamane S. R. "Auto-Combustion Synthesis of Nanocrystalline FeCrO<sub>3</sub>." *Nanoscience, Technology and Societal Implications (NSTSI), 2011 International Conference, IEEE Journal* (ISBN: 978-1-4577-2035-2; INSPEC Accession No. 12444340.)
- 5) A. K. Bhosale, **S. R. Kulal**, V. M. Gurame, P. S. Patil, "Spray deposited CeO<sub>2</sub>-TiO<sub>2</sub> counter electrode for electrochromic devices" *Bulletin of Materials Science, Bull. Mater. Sci.*, Vol. 38, No. 2, April 2015, pp. 1–9.
- 6) **Shivaji. Rauba. Kulal**, Sambhaji. Rau. Bamane, "Synthesis of Cerium doped Zinc oxide nanoparticles by aqueous hydrothermal method and study of their properties"., *Archives of Applied Science Research* 2 (6) (2010) 205-210.
- 7) **S. R. Kulal**, S. R. Bamane, "Synthesis of nanocrystalline Cobalt Zinc Ferrites by sol- gel auto combustion method and study of their properties." *Material science an Indian Journal* (2011) 1-5.
- 8) **S. R. Kulal**, K. K. Rangar, B. N. Kokare, A. B. Gurav, V. M. Gurame "Synthesis and Characterization of Dysprosium Doped Co-Zn Ferrite For Their Catalytic performance." (NCRTCNS-2013) P-85-88 (2013) (ISBN-978-93-5126-367-8).
- 9) S. M. Khetre, **S. R. Kulal**, H. V. Jadhav , P. N. Jagdale, S. R. Bamane, "Studies on electrical and dielectric properties of LaFeO<sub>3</sub>." *Advances in Applied Science Research* 2(4) (2011) 503-511.
- 10) S. M. Khetre, **S. R. Kulal**, H. V. Jadhav, P. N. Jagdale, S. V. Bangale, S. R. Bamane, "Solar photodegradation of methylene blue by LaMnO<sub>3</sub> nanorods as a heterogeneous catalyst." *Archives of Applied Science Research* 3(4) (2011) 450-462.
- 12) Pramod N. Jagdale, **Shivaji R. Kulal**, Sanjay M. Khetre, Pramod P. Jagtap, Sambhaji R. Bamane, "synthesis, characterization and biodegradation behavior of nanostructured CaSiO<sub>3</sub> bioceramics" (NCRTCNS-2013) P-78-82 (2013) (ISBN-978-93-5126-367-8).
- 13) DP Waghmode, GD Kore, AN Kokare, **SR Kulal**, SS Kolekar, MA Anuse, "Extractive separation and spectrophotometric studies of tellurium (IV) from aqueous hydrochloric acid media by furfuraldehyde thiocarbohydrazone (FATCH)" P-334

(EHBCSN-2013) Proceeding of **International conference on emerging horizons in biochemical sciences and nanomaterials**; Solapur (India); 28-30 Nov 2013.

14) **S. R. Kulal**, K. K. Rangar, A. K. Bhosale “In vitro biocompatibility of Zn doped hydroxyapatite bioceramics synthesis and its characterization” Proceeding of Nanomaterial and Nanomaterial Based Devices, Manchester A Research Journal, DKASC College Ichalkaranji, Dist- Kolhapur.P-40-43 (ISBN-978-81-926341-2-8).

15) S.M.Khetre, A.U.Chopade, C.J.Khilaré, **S.R.Kulal**, H.V.Jadhav, P.N.Jagadale, S.V.Bangale, S.R.Bamane, “Ethanol gas sensing properties of nano-porous LaFeO<sub>3</sub> thick films” *Journal of Shivaji University (Science & Technology) ISSN-Science-0250-5347, Volume No. 41 (2), 2014.*

16) A. K. Bhosale **S. R. Kulal**, V. M. Gurame, P. S. Patil “Spray deposited CeO<sub>2</sub>-TiO<sub>2</sub> counter electrode for electrochromic devices” , *Bulletin of Materials Science*, Vol.38(2) pp. 483-491, April-2015.

17) V. M. Gurame, S. G. Jadhav, **S. R. Kulal**, S. N. Zende and G. S. Gokavi “Kinetics and mechanism of reduction of enneamolybdomanganate (iv) by d- glucose in aqueous perchloric acid medium” **EMERGING TRENDS IN BASIC AND APPLIED SCIENCES ISBN: 978-93-5212-826-6** P.93-99 (2015).

18) Abhange P., Malvade V., **Kulal S.** , Kokare S. “Structural and Dielectric studies of Lanthanum doped Barium Neodymium Titanate” **Journal of the Chinese Advanced Materials Society, J. Chin. Adv. Mater. Soc., 2016, (1-8).**

19) “Synthesis and characterization of Dy Doped Co-Zn ferrite by sol-gel auto combustion method” at International Conference on “Advances in Material Science” organized by Raje Ramrao Mahavidyalaya, Jath. **ISBN978-93-5254-490-5**

20) “A polystyrene modified sponges for effective oil/water separation” at International Conference on “Advances in Material Science” organized by Raje Ramrao Mahavidyalaya, Jath. **ISBN978-93-5254-490-5.**

## **KNOWLEDGE OF LITERATURE SURVEY**

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- Search engines such as Scifinder, Scopus, Science direct etc.
- Paper search by different e-journals
- Able to write research papers and proposals independently.

## **SKILL SUMMARY**

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- Basic spectroscopic knowledge of XRD, TGA-DTA, EDS, UV, IR, NMR, MASS, TEM, AAS.

## **CO-CURRICULAR ACTIVITY**

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- **National level athletics player**
- **General Secretary** of Raje Ramrao College Jath during the year 2001-02.

- **Student council member of Shivaji University Kolhapur** during the year 2001-02.
- Student of **National service scheme** at degree level in Raje Ramrao College Jath.
- Basic knowledge of computer.
- **Prepared Organic Binary Mixture Separation Chart for B. Sc.-III (Chemistry) during academic year 2013-14.**

## ***Memorandum of Understanding:-***

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I have Memorandum of Understanding with Prof. G. B. Kolekar, Department of Chemistry, Shivaji University, Kolhapur. This collaboration will not only help me for the academic discussion but it leads to the greater interaction between these two laboratories.

## ***Invited Talks/ Lecture Delivered:-***

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- Delivered a lecture in primary teachers training of revised syllabus of science for standard 6<sup>th</sup> to 8<sup>th</sup> on 5<sup>th</sup> Feb. 2015 organized by DIET Sangli in S. R. V. M. Highschool & Junior college, Jath, Dist- Sangli.
- Delivered a lecture for JEE mains Examination on 20<sup>th</sup> March 2015 organized by Sanjay Bhokare Group of institutions, Miraj in S. G. B. Highschool & Junior college, Sankh, Dist- Sangli.
- Delivered a Talk being present as **Chief guest** for prize distribution ceremony in “**Siddharth Festival 2015-16**” at Siddharth Polytechnic college Jath, Dist- Sangli on 27<sup>th</sup> September, 2015.
- Delivered a lecture on ‘Personality Development’ at Siddharth Polytechnic college Jath, Dist- Sangli on 20<sup>th</sup> December, 2015.
- Delivered a lecture on ‘Solid Waste Management’ at Siddharth Polytechnic college Jath, Dist- Sangli on 10<sup>th</sup> January, 2016.

## ***Participated/Papers presented in International /National /State conferences, Seminars, Workshops***

### **➤ International level**

- 1) **Paper presented** in *International Conference on Emerging Trends in Basic and Applied Sciences* on 10<sup>th</sup> March 2015 at Karmaveer Hire arts, science & Commerce college Gargoti, Dist-Kolhapur.
- 2) **Paper presented** in *International workshop on Nanotechnology and Advanced Functional Materials* on 9-11<sup>th</sup> July 2009 in National Chemical Laboratory, Pune.
- 3) **Paper presented** in *International conference on Emerging Horizons in Biochemical Sciences and Nanomaterials* on 28<sup>th</sup> -30<sup>th</sup> Nov 2013 at Shivaji College Barshi, Dist-Solapur.

- 4) **Paper presented** in International conference on *Advances in Material Sciences* on 7<sup>th</sup> -8<sup>th</sup> Dec 2016 at Raje Ramrao Mahavidyalaya Jath, Dist- Sangli.
- 5) **Paper presented** in International conference on *Advances in Material Sciences* on 7<sup>th</sup> -8<sup>th</sup> Dec 2016 at Raje Ramrao Mahavidyalaya Jath, Dist- Sangli.
- 6) Attended International conference on nanomaterials and its applications on 9-11<sup>th</sup> Dec. 2008 in Department of Chemistry, Shivaji University Kolhapur.
- 7) Participated as Volunteer in International *Symposium on Drug Discovery and Process Research* on 23-25<sup>th</sup> January 2003, in Department of Chemistry, Shivaji University Kolhapur.

### ❖ National level

- 1) **Paper Presented** in National Seminar on *Advances in Co-ordination Chemistry*, on 17-18<sup>th</sup> Aug. 2010 in Shahu College Kolhapur.
- 2) **Paper presented** in National Conference on *Recent Trends in Chemistry* on 14-15<sup>th</sup> Oct.2010 in Yashwantrao Chavan Institute of Science, Dist-Satara.
- 3) **Paper presented** in National Symposium on *Advances in synthetic Methodologies and New Materials* on 21-22<sup>nd</sup> Jan 2011, in Department of Chemistry, Shivaji University Kolhapur.
- 4) **Paper presented** in National Conference on *Current Research in Chemical Science* on 22-23<sup>rd</sup> Jan 2013, in Department of Chemistry, Shivaji University Kolhapur.
- 5) **Paper presented** in National Conference on *Frontiers in Chemical and Biological Sciences* on 23-24<sup>th</sup> Sept 2013, in Department of Chemistry, Padmabhushan Dr. Vasanttraodada Patil Mahavidyalaya Tasgaon, Dist-Sangli.
- 6) **Paper presented** in National conference on *Recent trends in Chemistry; Nanoscience (NCRTCNS-2013)* on Date 18-19<sup>th</sup> oct 2013, in Department of Chemistry, in Dahiwadi college Dahiwadi, Tal-Man, Dist-Satara.
- 7) **Paper presented** in National Seminar on *Advanced Synthetic Methodologies and Functional Materials* on 23-24<sup>th</sup> Dec 2009 in Department of Chemistry, Shivaji University Kolhapur.
- 8) **Paper presented** in National Seminar on *Recent Advances Synthetic Chemistry and Nanomaterials* on 21-22<sup>nd</sup> January 2012 in Department of Chemistry, Shivaji University Kolhapur.
- 9) **Paper presented** in National Seminar on *Chemistry and Its Role in Human Developement* on 26<sup>th</sup> March 2012 in Department of Chemistry, Dr. Patangrao Kadam Mahavidyalaya, Sangli.
- 10) **Paper Presented** in National conference on *Recent trends in Chemical Sciences (RTCS-2014)* on Date 18-19<sup>th</sup> September 2014, in Department of Chemistry, in Devchand College Arjunnagar, Tal-Kagal, Dist-Kolhapur.
- 11) **Paper Presented** in National conference on Nano materials and Nano material based devices on 23-24<sup>th</sup> December 2014, organized by Department of Physics Dattajirao Kadam Arts, science & Commerce College Ichalkaranji, Dist-Kolhapur.

- 12) **Paper Presented** in National conference on Recent Trends in Nanomaterials and their Applications (RTNA 2015) on 23-24<sup>th</sup> January 2015, organized by Department of Physics & Chemistry, Sangola College Sangola, Dist- Solapur.
- 13) **Paper Presented** in National conference on Emerging trends in Physical, Chemical and Life Sciences on 16-18<sup>th</sup> February 2015, organized by Department of Chemistry, Waghire College Saswad, Dist-.Pune
- 14) Attended state level seminar on *Recent Advances in Analytical Chemistry* on 8-9<sup>th</sup> Oct.2010 by Abasaheb Marathe College, Rajapur, Dist- Ratnagiri.
- 15) Attended UGC-SAP National level seminar on *synthesis of new materials for industrial applications* on 1-2<sup>nd</sup> Feb 2008 in Department of Chemistry, Shivaji University, Kolhapur.
- 16) Attended National Seminar on *Physics of Materials and Materials Based Device Fabrication* organized on 17-18<sup>th</sup> February, 2011 in Department of Physics, Shivaji University Kolhapur.
- 17) Attended National Seminar on *Nanotechnology-Today's Need* on 28-29<sup>th</sup> March 2009 in TP Science College Sankeshwar, Karnataka.
- 18) Attended National seminar on *Green Chemistry* on 16-17<sup>th</sup> April 2009 in K.C.P College Bijapur, Karnataka.
- 19) Attended National Seminar on *Advanced Materials* on 19-20<sup>th</sup> March 2010 in Department of Chemistry, Shivaji University Kolhapur.

### ❖ State/Regional level

- 1) **Worked as Referee** for poster presentation in State level Chemistry workshop (*Marathi Rasayanshastra parishad, Maharashtra*) on 5<sup>th</sup> February 2012 organized by New College Kolhapur & Dr. N.D. Patil College Malkapur, Dist- Kolhapur.
- 2) **Paper presented** in State level seminar on *Emerging Trends In Chemistry Through Green Approach* on 1<sup>st</sup> Oct 2013, in Department of Chemistry, Smt. Kasturbai Walchand College Sangli, Dist-Sangli.
- 3) Attended Faculty development program-II organized in *Magnus School of Business* on 5<sup>th</sup> Feb, 2010 in Kolhapur.
- 4) Attended State level seminar on *Frontiers of Research in Green Chemistry* on 25<sup>th</sup> January 2011, in Arts, Science and Commerce College Ramanandnagar, Dist-Sangli.
- 5) Attended Workshop on *Revised Syllabus* of B.Sc.Part-II on 10<sup>th</sup> Aug.2011 in Vivekanand College Kolhapur, Dist-Kolhapur.
- 6) Attended Workshop on *Rights, Duties & Responsibilities in Higher Education* on 13<sup>th</sup> August 2011 in Devchand College Arjun Nagar, Dist-Kolhapur.
- 7) Attended one day seminar on *Project Formulation* for B.Sc.-III on 20<sup>th</sup> August 2011 in Padmabhushan Dr. Vasantdada Patil Mahavidyalaya Tasgaon, Dist-Sangli.
- 8) Attended Training Cum Workshop on *Chemistry in Our Lives* on 26<sup>th</sup> August 2011 in Department of Chemistry, Shivaji University, Kolhapur.
- 9) Attended State level seminar on *Chemistry in Our Lives* on 21<sup>st</sup> December 2011 in Jaysingpur College Jaysingpur, Dist- Kolhapur.
- 10) Attended Workshop on *Revised Syllabus* of B. Sc. Part-II on 13<sup>th</sup> Aug.2014 in Yashwantrao Chavan Institute of Science Satara, Dist-Satara.

- 11) **Worked as Organizer** for 34<sup>th</sup> Central Youth Festival of Shivaji University Kolhapur on 11-12<sup>th</sup> October, 2014 in Raje Ramrao Mahavidyalaya, Jath, Dist- Sangli.
- 12) Attended one day programme on Understanding of Physics on 5<sup>th</sup> October 2013 in Department of Physics, Raje Ramrao Mahavidyalaya, Jath, Dist- Sangli.
- 13) Attended one day seminar on Role of IQAC in Quality Enhancement on 27<sup>th</sup> February 2015 organized by Balwant College Vita, Dist- Sangli.

## PERSONAL PROFILE

Permanent Address :- A/P- Sunetra Colony, Palace Road  
Jath, Tal- Jath, Dist- Sangli. Pin-416404

Gender :- Male

Marital status :- Single

Caste :- Hindu-Dhanagar (NT-C)

Nationality :- Indian

Blood Group :- O<sup>Rh</sup>+ve

Date of Birth :- 27<sup>th</sup> Dec 1980

Languages known :- English, Hindi, Marathi.

## REFERENCES

- |   |   |
|---|---|
| 1) Prof. M. A. Anuse<br>Head, Department of Chemistry,<br>Shivaji University Kolhapur-416004<br>Mobile no. 9423829480 | 2) Dr. G. B. Kolekar<br>Asso. Prof., Department of Chemistry,<br>Shivaji University Kolhapur-416004<br>Mobile no. 942328108 |
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## DECLARATION

I hereby declare that the information and details given above are true to the best of my knowledge and belief.

Yours sincerely,



(S. R. Kulal)

Place:- Jath

Date:- 01/01/2022