

CURRICULUM VITAE

Dr. VIDYASAGAR. C. C M.Sc., Ph.D., Post-Doc.

Assistant Professor

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Google Scholar: <https://t.ly/s-tw0>



OVER-VIEW OF RESEARCH

International Publications: 56, Book Chapters: 06, Citations: 1705, *h*-index: 19, *i10*:, 34, Patents: 03 (2 Granted), Highest Impact Factor publication is 31.6

AWARDS AND HONOURS

- American Chemical Society (ACS) (Membership No: 32374284), **USA**
- DST-SERB, Project grant (**Rs. 36.89 Lakhs**) on Solar cells application, **Govt. of India**.
- KSTePS-VGST(L2) grant (**Rs. 20 Lakhs**) on Photovoltaic cells application **Govt. of Karnataka**.
- DST-SERB-SIRE Awardee (2023), Govt. of India to work on advanced solar cells at UJI, **Spain**
- Co-editor for special issue (2022-23), Frontiers in Chemistry, Frontiers publisher, **Switzerland**.
- SSP Coordinator (2021), Karnataka State Council for Science & Technology, **Govt. of Karnataka**
- DST (SERB) Grant Award Letter for conducting national conference (2020), **Govt. of India**.
- Post-Doc Fellowship (Fellowship No.: CONACYT-24641/2017), National Council for Science & Technology, University of Nuevo Leon, **Govt. of Mexico**.
- Appreciation certificate for reviewing articles 2017-18, ELSVIER Team, **Netherlands**
- ITS-DST (SERB) Award, Department of Science and Technology (2016), **Govt. of India** to visit **Sweden**.
- Young Scientist Award, Vision Group on Science and Technology (2015), **Govt. of Karnataka**.
- Best presentation award, Karnataka Science and Technology Academy, Dept. of IT, BT and S&T (2018), **Govt. of Karnataka**.
- Young Faculty Award, Venus International Foundation (VIFFA-15), **Chennai, India** (ISO: 9001:2008 Certified)
- Appreciation certificate from Vice-Chancellor, Rani Channamma University (2014), Belgaum.
- Post-Doc Fellowship (DST-01155), DST, SSCU, Indian Institute of Science, (**IISc**), **Bangalore**
- National Fellowship (**JRF 2009 and SRF 2011**) from UGC, New Delhi, No. F. 14-2(ST)/2009 (SA-III)
- Best Material Science (Powder technology) Research Article 2012 (5th rank) by Science Scopus (**Elsevier Team, Netherland**) "ZnO semiconducting Nanoparticles"
- Financial services front page news "Industry News by NEWS EDGE magazine" Ametek.Inc, North American global manufacture of electro chemical devises) 01-01-2012, 02:43:27pm-**Energy weekly news, U.S.A.**
- Best Material Science (Powder technology) Research Article 2012 (18th rank) by Science Scopus (**Elsevier Team, Netherland**) "Electrochemical synthesis of ZnO Nanoflowers"
- **Junior Under Officer**, Rank in NCC (2003-06), Govt. Science College, Chitradurga.

PROFESSIONAL EXPERIENCES & QUALIFICATIONS

- Nodal Officer, Pradhan Mantri Uchchatar Shiksha Abhiyan (PM-USHA), Govt. of India for 100 Cr funding in Rani Channamma University, Belagavi.
- Coordinator, Dept. of Zoology (Till date), Rani Channamma University, **Belgaum**.
- Deputy Custodian, Central valuation, Rani Channamma University (2023), **Belgaum**.
- Hostel warden, Rani Channamma University (2023 to 2025), **Belgaum**.
- Assistant Professor (3rd Sept 2013 to till date), Dept. of Chemistry, Rani Channamma University, **Belagavi**.
- Post-Doc Fellow, SIRE, Dept. of Sci. & Tech.-SERB, Gov. of India to work at UJI (2022), **Spain**.
- Post-Doc Fellow, (Ref: NCST-24641) (2017), Perovskite materials for energy conversion devices **Prof. Victor M Jimenez Perez**, University of Nuevo Leon, **Govt. of Mexico**.
- Post-Doc Fellow (DST project: 01155) (2012-13), CdS/CdTe transparent solar cells under **Prof. T. N. Guru Row & Prof. Sheela K Ramasesha**, SSCU department, Indian Institute of Science (IISc), **Bangalore**
- Visiting Faculty, Songloli Rayanna Govt. First grade Constituent College (RCU) 2022, **Belgaum**.
- Ph.D in Chemistry (Physical Chemistry) at Kuvempu University (2012), **Karnataka**.
- M.Sc in Industrial Chemistry at Kuvempu University (2008), **Karnataka**.
- B.Sc (PCM) Govt. Science College, Chitradurga (2006), **Karnataka**.

Major PROJECTS from Central and State Governments- Ongoing/Completed

Sr. No.	NAME	TITLE	SPONCRED AGENCY	Amount
1.	Vidyasagar C C (Principle Investigator)	Influence of carbon-based materials on optoelectronic properties of Lead-free halide perovskies for solar cells application	DST-SERB, Govt. of India	36,89,000/- (2022) 3 years Ongoing
2.	Vidyasagar C C (Principle Investigator)	Influence of graphene and its derivatives on stability and efficiency of perovskites for solar cells application	KSTePS, VGST (L2), Govt. of Karnataka	20,00,000/- (2023) 2 years Ongoing
3.	Vidyasagar C C (Principle Investigator)	Human health risks assessment around textile industries and water treatment process using electrocatalytic method	RCU, Belagavi	4,00,000/- (2022) 2 years Completed
4.	Vidyasagar C C (Principle Investigator)	Low-cost Semiconducting Counter electrode film for Dye-sensitized Solar Cells	VGST Dept. of IT, BT &ST Govt. of Karnataka	4,00,000/- 1 year (2014-15) Completed
5.	Vidyasagar C C (Principle Investigator)	Green Synthesis of CuO/ Graphene Oxide Nano composite with Efficient Photocatalytic Degradation of Industrial Textile Waste Water	Rani Channamma University, India	1,00,000/- 1 year (2017-18)
6.	Vidyasagar C C (Dept Level Project)	Advanced Materials for Clean Energy, Health and Environment (Contributed proposal on energy related materials)	DST-FIST Sponsored Department Govt. of India	1,25,00,000/- (2017-18)

7.	Vidyasagar C C (Principle Investigator)	Eco-Friendly Synthesis of Non-Toxic Perovskite Type Materials for Energy Conversion Devices	Rani Channamma University, India	75,000/- (2019-20)
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Students Summer Projects

1.	Vidyasagar C C (PI)	Materials for advanced Bio-sensing applications	KSCST Govt. of Karnataka	2023
	Vidyasagar C C (PI)	Students Summer Project Green Synthesis and Characterization of Lead-Free Perovskites for Solar Cells	KSCST Govt. of Karnataka	2021
2.	Vidyasagar C C (PI)	Eco-friendly microwave preparation of Cu-ZnO metal oxides for photovoltaic cells	VGST- Spice Govt. of Karnataka	2014

RESEARCH INTERESTS and COLLABORATIONS

- Synthesis and Characterization of Perovskites and Semiconducting nanomaterials for Energy Devices (Photovoltaic cells and Dye-sensitized solar cells).
- Reduced Graphene Oxide/ Metal Oxide composites for Energy and Environmental remediation.

Collaborations:

1. Prof. Víctor M. Jiménez-Pérez, University of Nuevo Leon, Mexico
2. MoU with Dept. Environmental science, Gulbarga University (b/w Faculty)

Ph.D Students details

NAME	Registration No/Year	Thesis Title	Remarks
1. Sanakousar F. M.	2019 M.Sc	Photocatalytic Degradation of Industrial Dyes Using Semiconducting Nanoparticles	Awarded 2024
2. Krupalini S. Shinde.	2022 M.Sc., M.Tech	Thesis Title: Degradation Of Pesticides Using Semiconducting Metal Oxides by Photocatalytic Method	Awarded 2025
3. Swapna S Chigari	2022 M.Sc, CSIR- JRF, K-SET		Working
4. Guruprasad. B	2024 M.Sc		Working
5. Swetha M M.Sc	2025 M.Sc		Working

INTERNATIONAL / NATIONAL PATENTS

NAME	Type of Patent	Publication File No. Year	Patent
1. Swapna S Chigari Vidyasagar. C. C	Novel reversible thermochromic two-dimensional Lead-free perovskites with superior environmental stability for solar cell application	202441048049 (2024)	Indian Patent Published
2. Vidyasagar C C	IA-Films: Intelligent Nanoparticles and Anodization Using Spent Diet Coca-Cola Aluminum Films	201941044468 (2024)	Indian patent, Granted No. 545241
3. Vidyasagar C C, Prakash Kariyajaanavar	Decolorization Followed By Degradation of Real Industrial Effluents By Column Electrochemical Method Using Spent Batteries and e-Wastes.	2020103094 (2020)	Australian Innovation Patent Granted Govt. of Australia
4. Vidyasagar C C	IMI-AC-Performance: Intelligent Method to Increasing Air Conditioner Performance and Decreasing Maintenance	202011007757	Indian patent, Published 06/03/2020

RESEARCH PUBLICATIONS

1.	Reversible Thermochromism in Lead-Free 2D Copper-Based Perovskites for Smart Solar Applications Swapna Shambulinga Chigari, Vidyasagar C. C.* , Guruprasad Bonageri, Víctor M. Jiménez-Pérez, Arthoba Nayaka Yanjerappa, (Scopus & Web of Sci) IF = 3.9 ACS Optical Mater. 9 (2025) 1777-1799 https://pubs.acs.org/doi/abs/10.1021/acsaom.5c00199
2.	Sunlight-driven GO/ZnO nanocomposite for photocatalytic degradation of Chlorpyrifos insecticide and its biological activities. Shinde Krupalini Sumantrao, Prakash Kariyajjanavar, Vidyasagar. C. C* J. Envi. Chem. Eng. 13 (2025) 115437 Elsevier (Scopus & Web of Sci) IF = 7.9 https://doi.org/10.1016/j.jece.2025.115437
3.	Lead-free halide perovskites for photovoltaic smart windows Swapna S. Chigari, Vidyasagar C. C * , Viswanath C. C , Shweta Muttannavar. IF = 1.3 Next Materials, 9 (2025) 100881 Elsevier (Scopus & Web of Sci) https://doi.org/10.1016/j.nxmte.2025.100881
4.	Synthesis and characterization of substituted 3-((4-methyl-2-oxo-2H-chromen-7-yl)imino)indolin-2-one derivatives as Photosensitizers for solar cell application and their NLO properties Y. Surendranaik, Talavara Venkatesh, C.C. Vidyasagar , L.S. Manjunatha J. Mole. Stru. 1350 (2026) 143954 IF =3.9 https://doi.org/10.1016/j.molstruc.2025.143954
5.	Aravind R Nesaragi, Praveen Naik, Bi Ayisha Mulla, Nabil Al-Zaqri, Vidyasagar C C , Selective Al 3+ and Fe 3+ detection using imidazole–oxadiazole sensors: bioimaging evidence

	from zebrafish. <i>New J. Chem.</i> 13 (2025) RSC (Scopus & Web of Sci) IF =2.7 https://doi.org/10.1039/D5NJ00412H
6.	Aravind R. Nesaragi, Ayisha Mulla, Sharanakumar T. M, Vidyasagar C. C , et. al. Imidazole- Centred Oxadiazole Sensor for Detecting Al ³⁺ and Fe ³⁺ Cations in Living Cells: A Zebrafish Bioimaging Approach. <i>Appl. Organomettalic. Chem.</i> 39 (2025) 70087 Wiley (Scopus & Web of Sci) IF =3.7 https://doi.org/10.1002/aoc.70087
7.	Raul Segovia, Noemí, Blanca M. Munoz-Flores, Vidyasagar. C. C , Víctor M. Jimenez Perez. et. al. Microwave-assisted synthesis, characterization and molecular docking of two C2-symmetric Schiff bases as fluorescent dye for silk fibroin. <i>J. Mole. Stru.</i> 1323 (2025) 140775 Elsevier (Scopus & Web of Sci) IF =3.9 https://doi.org/10.1016/j.molstruc.2024.140775
8.	Aravind R. Nesaragi, Delicia A. Barretto, Vinuta Kamat, Vidyasagar. C. C , et. al. Microwave expedited Cu(I) catalyzed regioselective 1,2,3-triazoles as Mycobacterium Tuberculosis H37Rv inhibitors, in vitro α -amylase and α -glucosidase inhibition, in silico studies <i>J. Mole. Stru.</i> 1322 (2025) 140486 Elsevier (Scopus & Web of Sci) IF =3.8 https://doi.org/10.1016/j.molstruc.2024.140486
9.	Sanakousar F. M, Vidyasagar C. C* , Shikandar D. B, Mounesh, Viswanatha C. C Swapna S Chigari. Electrocatalytic and photocatalytic activity of CuTiO ₃ perovskites for complete degradation of methylene blue under sunlight irradiation. <i>React. Chem. Eng.</i> 8 (2024) RSC (Scopus & Web of Sci) IF =3.9 https://doi.org/10.1039/D3RE00408B
10.	Swapna Shambulinga Chigari , Vidyasagar C.C.* Sonocrystallization of Lead-free layered Ruddlesden-Popper like 2-D hybrid halide perovskite as a light harvester for photovoltaics. <i>Optical Materials</i> 151, 115310 (2024) Elsevier (Scopus & Web of Sci) IF =3.9 https://doi.org/10.1016/j.optmat.2024.115310
11.	Swapna Shambulinga Chigari, Vidyasagar. C. C* , et. al. Ultrasonic radiation assisted synthesis of (CH ₃ NH ₃) ₂ CuCl ₄ , CH ₃ NH ₃ PbCl ₃ , and CH ₃ NH ₃ SnCl ₃ perovskites for energy application. <i>J. Hazar. Mater. Adv.</i> 12 100368 (2023) Elsevier (Scopus & Web of Sci) IF =5.4 https://doi.org/10.1016/j.hazadv.2023.100368
12.	Shoubhik Chandra, Sridevi I. Puranik, Vidyasagar C. C , et.al. Mineralogical composition and structural characterization of kidney stone patients at a single tertiary care centre in south India. <i>Afr. J. Bio. Sc.</i> 6(5) 9667-9688 (2024) (Scopus & Web of Sci) doi: 10.48047/AFJBS.6.5.2024
13.	Sanakousar F. M, Vidyasagar C. C* , Shikandar D. B, Mounesh, Viswanatha C. C Dual catalytic activity of hexagonal Mg–Sr codoped ZnO nanocrystals for the degradation of an industrial levafix olive reactive dye under sunlight and biosensing applications.

	<i>React. Chem. Eng.</i> 8, 2566 (2023) RSC (Scopus & Web of Sci) https://doi.org/10.1039/D3RE00219E	IF =3.9
14.	Mounesh, Manikanta, K. R. Venugopala Reddy, Manickam. Selvaraj, Vidyasagar. C. C Novel decorated aluminium(III) phthalocyanine complex with the application of MWCNTs on electrodes: electrochemical non-enzymatic oxidation and reduction of glucose and hydrogen peroxide. <i>RSC Adv.</i> 13,20723 (2023) RSC (Scopus & Web of Sci) https://doi.org/10.1039/D3RA02617E	IF = 4.0
15.	Sanakousar, Vidyasagar C C* , Victor Jimenez perez. K. Mounesh Thermal decomposition synthesis of cylindrical rod-like MoO ₃ and irregular sphere-like Ag ₂ MoO ₄ nanocrystals for accelerating photocatalytic degradation of industrial reactive dyes and biosensing application. <i>J. Envi. Chem. Eng.</i> 11, 109371 (2023) Elsevier (Scopus & Web of Sci) https://doi.org/10.1016/j.jece.2023.109371	IF = 7.9
16.	Sanakousar, Vidyasagar C C* , Swapna S Chigari, Victor Jimenez perez, et. Al Effect of surfactant on structural and optical properties of V ₂ O ₅ nanocrystals as a potential catalyst for photodegradation. <i>Iranian J. Cat.</i> 13, 57 (2023) (Scopus & Web of Sci) DOI:10.30495/IJC.2023.1973011.1975	IF =3.2
17.	Vidyasagar C. C* , Prakash. K, Manjunatha N. K Electrochemical degradation of reactive industrial textile dye using graphite as potential catalytic electrode. <i>Global J. Eng. Tech. Adv.</i> 17(02), 131–140 (2023)	Peer Rev'd
18.	Sanakousar, Vidyasagar C C* , Victor Jimenez perez. K. Mounesh Mechanistic insight into the photodegradation of organic pollutant and electrochemical behaviour of MWCNTs/Cu-Co ₃ O ₄ nanocomposite. <i>React. Chem. & Eng.</i> 7, 1540 (2022) RSC (Scopus & Web of Sci)	IF =3.9
19.	P Pratiba, MS Latha, B Vinay Kumar, Vidyasagar C C Fabricate, advancement, molecular docking and DNA reactivity of preferred divalent metal (II) complexes attributing (E)-N'-((6-hydroxybenzo [d] oxazol-5-yl) methylene <i>Nucleosides, Nucleotides & Nucleic Acids</i> , 1-17 (2022) Taylor & Francis	IF =1.1
20.	Sanakousar, Vidyasagar. C. C* , Victor Jimenez perez. K. Prakash Recent progress on visible-light-driven metal and non-metal doped zinc oxide nanostructures for photocatalytic degradation of organic pollutants. <i>Mater. Sci. Semi. Processing</i> , 140, 106390 (2022) Elsevier	IF =4.6
21.	Mounesh, Sharan kumar, Reddy Venugopal, et. al. Vidyasagar C C Novel Schiff Base Cobalt (II) Phthalocyanine with Applianace of MWCNTs: Enhanced electrocatalytic activity behaviour of α -amino acids. <i>RSC Adv.</i> 11, 16736 (2021) RSC	IF =4.0
22.	Sanakousar, Vidyasagar. C C* , Victor Jimenez perez. Efficient photocatalytic degradation of crystal violet and electrochemical performance of MWCNTs/Cd-ZnO nanoparticles with quantum chemical calculations.	

	<i>J. Hazar. Mater. Adv.</i> 02, 100004 (2021) Elsevier	IF =5.4
23.	Chandrakala Linganna, Prakash Kariyajjanavar, Vidyasagar C C , Land Use/Land Cover Classification and Analysis of Agriculture In Yadgir District, Karnataka, India Through Geospatial Technology, <i>Ann. For. Res.</i> 65(1): 10058-10070 (2022)	IF =1.96.
24.	Chandrakala L, Prakash K*, M. Lingadevaru , K. Channabasappa, Vidyasagar C C , Detection of Forest Land Cover Changes using Geospatial Technology in Yadgir District, Karnataka, India <i>Indian Journal of Natural Sciences</i> ,13, 75 (2022)	IF =2.4
25.	Chandrakala L, Prakash K, Channabasappa, Arun Kumar S. L, Vidyasagar C C , Assessment of Physico-chemical Properties of Surface Water Quality by using CCME-WQI in Afzalpur Taluk, Karnataka, India <i>Res. Jr. of Agril. Sci.</i> 13: 1548–1553 (2022)	Peer Rev
26.	Mabiel Román, Vidyasagar C C , Blanca M, Víctor M. Jiménez-Pérez Recent advances on synthesis and applications of lead- and tin-free perovskites <i>J. Alloys. Comp.</i> 835, 155112 (2020) Elsevier	IF =6.3
27.	Parashuram, Jalaja Udoshi, Vidyasagar C.C. An improved method for automatic characterization of aluminum oxide nanopore FESEM images, <i>J. Critical. Rev.</i> 7, 5129-5140 (2020) ISSN: 2394-5125	Peer Revi'd
28.	Vidyasagar. C. C* Prakash, Gururaj, Priya, Keerti Effect of copper oxide on structural, optical and photocatalytic activity reduced graphene oxide for Eosin B, <i>Asian J. Mater. Chem.</i> 04, 01-10 (2019)	Peer Rev.
29.	Vidyasagar. C. C* Prakash, Gururaj, Optical and electrical properties of Cu-ZnO prism shaped nanocrystals by microwave combustion method <i>American J. Energy Res.</i> 07, 31-40 (2019) (USA)	Peer Rev.
30.	Vidyasagar C C* , Blanca M. Muñoz, Víctor M. Jiménez Recent advances in synthesis and properties of hybrid halide perovskites photovoltaics <i>Nano. Micro. Lett.</i> 10, 68-90 (2018) Springer	IF = 31.6
31.	Jessica. Reyes, Vidyasagar C C , Blanca M. Muñoz, Víctor M. Jiménez Recent advances in fluorescent bioimaging (FBI) of luminescent materials from main group elements: Synthesis, photophysical properties, and their applications <i>J. Luminescence</i> , 195, 290-313 (2018) Elsevier	IF =4.1
32.	Vidyasagar C C* , Gururaj Hosamani, Prakash et.al One-pot Microwave Synthesis and Effect of Cu ²⁺ ions on Structural Properties of Cu-ZnO Nano Crystals <i>Mater. Today Proc.</i> 5 22171-22180 (2018) Elsevier	IF =2.5
33.	Vidyasagar C. C* , Blanca M. Muñoz, Víctor M. Jiménez, Gurubasavaraj. P.M Recent advances in Schiff based Boran derivatives for Light Emitting Diodes (LEDs) <i>Mater. Today Chem.</i> 11, 133-155 (2018) Elsevier	IF =7.6

34.	Manjunath. P, Vidyasagar. C. C* , Arthoba Nayaka, Development of multi-walled carbon nanotubes modified pencil graphite electrode for the electrochemical investigation of aceclofenac in pharmaceutical and biological samples <i>Sens. Bio-Sens. Res.</i> 17, 7-17 (2018) Elsevier IF =5.4
35.	Parashuram B, Jalaja Udoshi, Vidyasagar C. C. Effect of concentration and temperature on aluminium oxide nanopore by FESEM images <i>Int. J. Comp Sci. Eng. App.</i> 12, 222-229 (2018) IEEE Peer Rev.
36.	Parashuram Bannigidad1, Jalaja Udoshi, Vidyasagar C.C. Effect of Voltage on Aluminium Nanopore Images using Digital Image Processing Techniques <i>J. Nanosci. Nanoeng. App.</i> 3, 8-20 (2018) USA IF = 4.5
37.	Vidyasagar. C. C* Mohammed Khenfouch [‡] , Prakash Green Microwave Combustion Synthesis Cr-ZnO Nanocrystals and Effect of Cr ²⁺ on Structural and Electrical Properties <i>Adv. Sci. Eng. Med.</i> 9, 810–815 (2017), USA Peer Revi'd
38.	Patil Rajashree, Vidyasagar. C. C* Kishore G. Bhat Synthesis and Characterization of Copper-Caffeine Complex for Anti-Bacterial Studies Using Mic Method <i>J. Chem. Bio. Phy. Sci.</i> 07, 906-918 (2017) IF = 1.4
39.	P. Mannjunath, Vidysagar C. C. * , Y. Arthoba Nayaka Voltammetric studies of Aspirin in Pharmaceutical samples using CTAB-Pencil Graphite Electrode, <i>Org. Med. Chem.</i> 3, 1-5 (2017) Peer Revi'd
40.	R. O. Yathisha, Y. ArthobaNayaka, Vidyasagar C.C. Microwave combustion synthesis of hexagonal prism shaped ZnO nanoparticles and effect of Cr on structural, optical and electrical properties of ZnO nanoparticles <i>Mater. Chem. Phy.</i> 181,167-175 (2016) Elsevier IF = 4.3
41.	C.C. Vidyasagar* Parashuram Bannigidad, H. B. Muralidhara Influence of Anodizing Time on Porosity of Nanopore Structures Grown on Flexible TLC Aluminium Films and Analysis of Images using MATLAB Software <i>Adv. Mater. Lett.</i> 07 (1) 71-77 (2016) Sweden IF = 1.9
42.	S. Archana, K. Yogesh Kumar, Sharon Olivera, B. Muralidhara, C. C. Vidyasagar Development of Multipurpose CuO–GO Nanocomposites for Heavy Metals Adsorption and Super Capacitor Applications <i>Energy Envi. Focus</i> 5, 1-11, (2016) USA PeerRevi'd
43.	Vidyasagar C. C , Y ArthobaNaik* Surfactant (PEG 400) effect on the crystallinity of ZnO nanoparticles <i>Arabian. J. Chem.</i> 09, 507-510 (2016) Elsevier IF = 6.2
44.	Vidyasagar C. C. * , H. B. Muralidhara Y. Arthobanayaka GururajHosmani Effect of annealing on structural property, crystallinity and band gap reduction in anatase Cr-TiO ₂ semiconducting nanoparticles

	<i>Energy. Envi. Focus</i> , 04, 54-63 (2015), USA	Peer Revi'd
45.	Yogesh Kumar, H. B. Muralidhara, Vidyasagar C. C. , S.Archana Hierarchically assembled zinc oxide nanorods: An application in Hg(II) adsorption <i>J. Chem. Bio. Phy. Sci.</i> 1896-1911 (2015)	IF = 1.9
46.	Parashuram. B, Vidyasagar C. C. Effect of Time on Anodized Al ₂ O ₃ Nanopores FESEM Images using Digital Image Processing Techniques: A Study on Computational Chemistry <i>Int. J. Emer. Tren. Tech. Comp. Sci.</i> 4,15-22 (2015) IEEE	IF = 4.4
47.	R. Viswanatha, Y. ArthobaNayaka, T.G. Venkatesh, Vidyasagar C.C. Synthesis, characterization and optical properties of Sn-ZnO nanoparticle <i>Nanosci. Nanotech. Int. J.</i> 3,16-20 (2013) IND	Peer Revi'd
48.	Murugaiyasridar, Martin Charlton, Vidyasagar C. C. Etch process development of tantalum pentoxide (Ta ₂ O ₅) using photoresist (S1813) <i>Nanosci. Nanotech. Int. J.</i> 36-40 (2013) IND	Peer Revi'd
49.	Vidyasagar C. C. , Y ArthobaNaik* T G Venkatesh, R Viswanath Optical properties of Dye-sensitized films based on Cu-TiO ₂ nanoparticles <i>Int. J. Nanomater. Biostruct.</i> 2(3) 34-38 (2012) IND	Peer Revi'd
50.	Vidyasagar C. C. , Y ArthobaNaik*, T G Venkatesh, R Viswanath Optical properties of Dye-sensitized Cd-ZnO nanoparticles <i>Nanosci. Nanotech. Int. J.</i> 2, 18-23 (2012) IND	Peer Revi'd
51.	C. C Vidyasagar , H C B Kalachar, Y ArthobaNaik* Cyclic Voltammetric and FT-IR Studies on Complex Formation between Cloxacillin Sodium with Zn (II) and Pb (II) <i>Med. Chem.</i> 01, 16-18 (2012) IND	IF = 4.2
52.	T G Venkatesh, Y ArthobaNaik, R Viswanath, Vidyasagar C.C Electrochemical synthesis and photocatalytic behavior of flower shaped ZnO microstructures <i>Powder Tech.</i> 225 232-238 (2012) Elsevier (UK)	IF = 5.6
53.	R. Viswanatha, T.G. Venkatesh, Vidyasagar C.C. , Y. ArthobaNayaka Preparation and characterization of ZnO and Mg-ZnO nanoparticle <i>Arch. App. Sci. Res.</i> 4, 480-486 (2012) USA	Peer Revi'd
54.	R. Viswanatha, Y. Arthoba Nayaka*, T.G. Venkatesh, Vidyasagar C.C. Structural and optical properties of Mg doped ZnO nanoparticles <i>J. Chem. Pharm. Res.</i> 4, 1983-1987 (2012) IND	IF = 0.32
55.	Vidyasagar C.C. , Y. ArthobaNaik*, T. G.Venkatesha, P. Manjunatha Sol-Gel synthesis using glacial acetic acid and optical properties of Anatase Cu-TiO ₂ nanoparticles, <i>J. Nanoeng. Nanomanuf.</i> 2, 91-98 (2012) USA	Peer Revi'd
56.	Vidyasagar C. C. , Y ArthobaNaik*, T G Venkatesha, Solid-State synthesis and effect of temperature on optical properties of CuO nanoparticles <i>Nano. Micro. Lett.</i> 4 (2) 73-77 (2012) Springer	IF = 31.6

57.	Vidyasagar C. C , Y. ArthobaNaik*, T G Venkatesha, R Viswanath Solid-state synthesis and effect of temperature on optical properties of Cu-ZnO, Cu-CdO and CuO nanoparticles <i>Powder Tech.</i> 214 337-343 (2011) Elsevier	IF = 5.6
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Editorial Board Member

- Guest Associate Editor (2021-22), Frontiers in Sensors, Frontiers Publication, Switzerland.
- Editor-in-Chief, New International “Journal of Advanced Materials & Technology”, **India**

BOOKS/ BOOK CHAPTERS

Sl. No	Authors	Title	Publisher	Year/ISBN
1.	Vidyasagar C C Arthoba Nayaka	Low-cost synthesis of semiconductors for Dye-sensitized solar cells (BOOK PUBLISHED)	Lambert Academic Publishing, Germany	14/03/2013 (ISBN 978-3-659-36766-3)
2.	Vidyasagar C C* Victor M Jimenez	Book Title: Direct Synthesis of Metal Complexes Chapter 2: Recent Advances in Direct Synthesis of Organometallic and Coordination Compounds. https://doi.org/10.1016/B978-0-12-811061-4.00002-5	Elsevier, Netherland	ISBN: 978-0-12-811061-4, pp25-85 (2018)
3.	Parashuram Bannigidad, Jalaja Udoshi, Vidyasagar C C	BOOK Title: Recent Trends in Image Processing and Pattern Recognition Chapter 2: Effect of Time on Aluminium Oxide FESEM Nanopore Images Using Fuzzy Inference System. DOI: 10.1007/978-981-13-9187-3_36	Springer volume 1037, pp 397-405 (UK)	ISBN 978-981-13-9181-1 pp397-405 (2019)
4.	Leonardo Santana Vidyasagar C C , V́ctor M. Jiḿnez Ṕrez	Book Title: Handbook of Greener Synthesis of Nanomaterials and Compounds Chapter 15: Microwave assisted organic syntheses (MAOS): The green synthetic method https://doi.org/10.1016/B978-0-12-821938-6.00015-3	Elsevier, Netherland (UK)	ISBN 9780128219676 pp492-543 (2021)
5.	Jesús A. Lara-Cerón Vidyasagar. C. C , V́ctor M. Jiḿnez Ṕrez	Book Title: Handbook of Greener Synthesis of Nanomaterials and Compounds Chapter 16: Recent advances in microwave assisted syntheses of organometallic and coordination compounds. https://doi.org/10.1016/B978-0-12-821938-6.00016-5	Elsevier, Netherland (UK)	ISBN 9780128219676 pp544-585 (2021)
6.	Leonardo Xochicale, Vidyasagar. C. C ,	Chapter 15: The Prelude of Green Syntheses of Drugs and Natural Products. https://www.routledge.com/Greener-	CRC Press, Taylor & Francis England	ISBN 9781138972537 (2022)

Blanca M. Muñoz-
Flores, a and
Víctor
M. Jiménez Pérez.

[Synthesis-of-Organic-Compounds/Nag/p/book/9780367544034#](https://doi.org/10.1002/9780367544034#)

PRESENTATIONS IN THE INT/NAT CONFERENCES

No.			CONFERENCE/Year	Oral/ Poster
1.	Vidyasagar C C	Perovskites for Energy Devices	National Conference on Green Energy Technologies, Pondicherry University	Oral 2023
2.	Vidyasagar C C	Enhanced Electrical properties of Cu-ZnO Prism Shaped Nano Crystals for Dye-Sensitized Solar Cells Application	National conference on Science and Technology for Inclusive Development. Karnataka Science and Technology Academy, Dept. of IT, BT and S&T, Govt. of Karnataka	Poster 2018
3.	Vidyasagar C C	Enhanced Structural, Optical and Electrical preoperties of Cu-ZnO nanoparticles	International Conference Japan Society for promotion of Science, Goa	Poster 2017
4.	Vidyasagar C C	Structural, Optical and Electrical preoperties of Cr-ZnO nanoparticles	International Conference on Materials and Technology, University of Delhi, Delhi	Poster 2016
5.	Vidyasagar C C	Impiron dye-sensitized Cr-ZnO films and effect of Cr ions on structural properties	European Advanced Materials Congress, Stockholm, Sweden.	Oral 2016
6.	Vidyasagar C C	Bang-Gap reduction in Cr-TiO ₂	Two days national seminar on Emerging trends Chemistry, KLE's BK college, Chikodi, karnataka	Oral 2015
7.	Vidyasagar C C	Effect of Temperature on Band gap of Anatase Cr-TiO ₂ Nanocrystals	Recent Advances In Chemical Sciences Research, Kuvempu University, Shimoga	Oral 2015
8.	Vidyasagar C C	Optical properties of CuO and Cu-ZnO nanoparticles	International conference on Nanostructured Ceramics and other Nanomaterials, New Delhi	Poster 2014
9.	Vidyasagar C C	Solid-state synthesis ZnO, CdO and CuO nanoparticles	International conference on Renewable energy, Rajasthan University. Jaipur	Poster 2011
10.	Vidyasagar C C	Synthesis of ZnO with and without PEG surfactant	National conferences on Social relevance of chemical sciences, Kuvempu University. Karnataka	Poster 2011
11.	Vidyasagar C C	Synthesis of CuO with and without PEG surfactant	National conference on recent trends in chemical and biological science, kuvempu university. Karnataka	Poster 2011
12.	Vidyasagar C C	Cyclic Voltammetric and FT-IR Studies on Complex Formation between Cloxacillin Sodium with Cu (II)	Indian council of chemist, Patan, Gujarat	Oral 2010

INVITED TALKS/RESOURCE PERSON/LECTURES

Sl. No.	TYPE	TITLE	YEAR	PLACE
1.	Invited Talk	"Nanomaterials & Technology"	22/02/14	Dept. of Biotechnology, K.L.E's, RLS Institute, Belgaum
2.	Resource person	Relevance science for national Integration	12/02/2015	National Service Scheme Rani Channamma University, Belgaum
3.	Interview	All India Radio (AIR), Akashvani Bhadravati (Letter on Behalf of President of India)	2016	Inspiring school students on research activities under Govt. Science Scheme, Bhadravati

4.	Invited Talk	Basics of Nanomaterials and Applications	2017	Dept. of Chemical Science University of Nuevo Leon, Mexico
5.	Resource person	Advanced Nanomaterials for Environmental remedy	16/2/2019	Govt. First Grade College, Raibag, Bijapur
6.	Resource person	State level seminar on “Intellectual property rights (IPR)”	10.07.2021 10.30 am	K.L.E’s Society’s Jagadguru Tontadarya College, Gadag

Conferences/Workshops/Seminars Organized

1. National Conference on Advances in analytical techniques for materials and Bio-medical application, 15th-16th Dec 2022 **Convener: Dr. Vidyasagar. C. C**
2. International Seminar on “Trends in Science Education” on eve of National Science day Celebration, 01st March 2021, SRFGC, Rani Channamma University, Belagavi
Convener: Dr. Vidyasagar. C C
3. International webinar on “Advancements in Chemical Sciences towards COVID-19” (ACSC-2-2-), 12th-13th June 2020, Rani Channamma University, Belagavi.
Convener: Dr. Vidyasagar. C. C
4. National Seminar on Current Science (Science day), 28th Feb 2020, Rani Channamma University, Belagavi.
Organizing Secretary: Dr. Vidyasagar. C. C
5. National seminar on Nuclear Chemistry 19th March 2018. Sponsored by: Rani Channamma University, Belgaum, Convener: Dr. J. Manjanna Dept. of Chemistry, Rani Channamma University, Belgaum
Coordinator: Dr. Vidyasagar C C
6. Two days National seminar on “Spectroscopic Techniques and its application in Chemical Science” March 6-7 2018. Rani Channamma University, Belgaum Convener: Dr. Kantharaju, Dept. of Chemistry, Rani Channamma University, Belgaum
Coordinator: Dr. Vidyasagar C C
7. BRNS-IANCAS (BARC,Mumbai) sponsored, Six days National workshop on Radiochemistry and Applications of Radioisotopes at Rani Channamma University, Belgaum (19-24th Sept 2016) Convener: Dr. J. Manjanna Dept. of Chemistry, Rani Channamma University, Belgaum
Coordinator: Dr. Vidyasagar C C
8. Two days National seminar on “Nuclear Science and Indian Nuclear Energy Program (Nov 28-29th 2014) at Rani Channamma University, Belgaum, Convener: Dr. J. Manjanna Dept. of Chemistry, Rani Channamma University, Belgaum
Coordinator: Dr. Vidyasagar C C

ACADEMIC PROGRAMMS ATTENDED

- Online refresher course in Chemical Science (2022), rmooocs, University of Delhi, MHRD, Govt. of India.
- Online refresher course in Advanced tools for teaching (2020), rmooocs, University of Delhi, MHRD, Govt. of India.
- Refresher Course [University & PG College M.Sc. Teachers (CHEMISTRY) training programme] @ TDC, Indian Institute of Science, IISc. (June 7-27, 2018).
- 104th Orientation Programme at UGC-Academic staff college, University of Mysore, 05/04/2014 to 02/07/14.
- Four days Faculty development program on Advanced Materials and Nanotechnology for research, Engineering and Health Care, 04-07/06/2015 Organised by Shaikh College of Engineering & Technology, Belagavi.
- Research Associate, (DST Fellowship 01155, Govt. of India) at Indian Institute of Science (IISc), **Bangalore**

ACADEMIC CURRICULUM

- Hostel Warden (Krishna)-2023 to till date, Rani Channamma University, Belagavi
- Co-ordinator, Department of Zoology 2022 to till date, Rani Channamma University, Belagavi
- Nodal Officer from RCU (2020), Ramaiah Public Policy Centre, Ramaiah Medical College, Karnataka.
- Waste management committee (2020) member, Rani Channamma University, Belagavi.
- Convener, Electoral Literacy Club (2019), Rani Channamma University, Belagavi.
- State student’s scholarship E-Attestation officer (2019), Rani Channamma University, Belagavi.
- Co-ordinator, Students Monitoring Cell (2018) Dept. of Botany, Rani Channamma University, Belagavi.
- Co-ordinator, RCU Academic Report Publishing committee (2016), RCU, Belagavi.
- Presiding officer, Election Duty 22/03/14, Ref. No. 44033, Belgaum.

- Co-ordinator, Sports and cultural events, Rani Channamma University, Belagavi.
- Documents verification officer, PG CET counseling for MBA and MCA (19-07-14), Govt. of Karnataka.
- Deputy superintendent of exam (Chemistry) 2014-15, Rani Channamma University, Belgaum.
- Presiding officer, Election Duty 29/05/15, Ref, No. 102093, Belgaum.
- Served as Coordinator/ Judge for PG Gymkhana sports and cultural activities for the academic year 2014-15, Rani Channamma University, Belagavi.
- Presiding officer, Election Duty 29/05/16, Ref, No. 8888037, Belgaum.

BOARD MEMBER

- BOS member (2020), Department of Chemistry, Rani Channamma university, Belagavi.
- BOAE (2019), Member, Dept. of Chemistry, Rani Channamma University, Belagavi.
- BOE Member (2018), Dept. of Chemistry, Rani Channamma University, Belagavi.
- BOE Member, Dept. of Chemistry, Karnataka University, Darwad
- BOE Member, Dept. of Chemistry, Mangalore University, Mangalore
- BOE Member, Dept. of Chemistry, Gulbarga University, Kalburgi
- Electrochemical society of India, Life Member Indian Institute of Science, (IISc), Bangalore.
- Society for Materials, Bhabha Atomic Research Center, Mumbai/1229/2008/GBBSD, Mumbai.
- National Advisory Committee, International Conference on Advanced Science and Engineering, Bangkok.
- Science for Social Service (S³), Kuvempu University, Shimoga.

EDITORIAL BOARD MEMBER

- RSC Advance
- Journal of Environmental Chemical Engineering
- Results in Physics
- Physics and Materials Chemistry
- American Journal of Materials Engineering and Technology

Royal Chemical Society (RSC), UK
Elsevier, UK
Elsevier, UK
Science and Education Publishing, USA
Science and Education Publishing, USA

Research Guides:

Journal of Materials Physics and Chemistry

Science and Education Publishing, USA
Science and Education Publishing, USA

Post-Doc Research Guide:

Prof. Victor M Jimenez Perez M.Sc., Ph.D
Department of Chemistry
University of Nuevo León,
Monterrey, N. L., **México**
Tel. +52 (81) 83294010,

Dr. Sheela. K. Ramasesha M.Sc., Ph.D
Visiting Scientist
Divecha center for climate change
Indian Institute of Science (IISc)
Bangalore- 560012, **India**

Ph.D. Guide:

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Dept. of Chemistry, Kuvempu University
Shankaraghatta-577451, **India**
Ph: +91-9448855078

Post-Doc Research Guide:

Prof. T. N. GURU ROW Ph.D., FNA, FASc, FRSC
Solid-state and Structural Chemistry Unit
Indian Institute of Science (IISc)
Bangalore- 560012, **India**

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