KLE Institute of Technology, Hubballi 580 027
Faculty Profile

Name: Dr. Shikandar D. B.

1.	**Educational, professional qualifications, and trainings**				
1.1.	**Educational Qualification**				
S.N.	**Degree**	**University / College**	**Discipline**	**Year of Passing**	**Class obtained**
a)	Ph.D.	Visvesvaraya Technological University	Chemistry	2017	-
b)	M.Sc.	Kuvempu University	Biochemistry	2008	First class
c)	B.Sc.	Karnataka University	Chemistry, Botany, Zoology	2006	First class with distinction
1.2.	**Training programmes attended**				
S.N.	**Subject Area of Training**		**Organization**	**Place**	**Period / Duration**
a)					
1.3.	**Membership of National and International Professional Bodies/Organisations**				
S.N.	**Name of Professional Body/Organization**		**Place**		**Membership Category**
a)	Indian Society for ElectroAnalytical Chemistry		BARC, Mumbai		Life member
1.4.	**Technical Papers/Books Published in National / International Events / Journals**				
a)	**Papers** S. D. Bukkitgar, N. P. Shetti, K. R. Reddy, T. A. Saleh, T. M. Aminabhavi, (2020). "Ultrasonication and electrochemically-assisted synthesis of reduced graphene oxide nanosheets for electrochemical sensor applications." FlatChem, Elsevier, Journal Pre-proof In Press, P 100183. S. D. Bukkitgar., N. P. Shetti, R. S. Malladi, R. K. Reddy, S. S. Kalanur, and T. M. Aminabhavi (2020). "Novel ruthenium doped TiO_2/reduced graphene oxide hybrid as highly selective sensor for the determination of ambroxol." *Journal of Molecular Liquids,* Elsevier, 300, P 112368. N. P. Shetti, S. J. Malode, D. S. Nayak, S. D. Bukkitgar, G. B Bagihalli, R. M. Kulkarni, K. R. Reddy (2020). "Novel nanoclay-based electrochemical sensor for highly efficient electrochemical sensing nimesulide" *Journal of Physics and Chemistry of Solids,* Pergamon, 137, P 109210. N. P. Shetti, S. J. Malode, S. D. Bukkitgar, G. B Bagihalli, R. M. Kulkarni, S. P. Pujari, K.				

	R. Reddy (2019) "Electro-oxidation and determination of nimesulide at nanosilica modified sensor". *Material science for energy Technologies*, Elsevier, 2(3) P 396-400 N. P. Shetti, S. D. Bukkitgar, K. R. Reddy, C. V. Reddy, T. M. Aminabhavi (2019) "ZnO-based nanostructured electrodes for electrochemical sensors and biosensors in biomedical applications". *Biosensors and Bioelectronics*, Elsevier, 141, 111417. N. P. Shetti, S. D. Bukkitgar, K. R. Reddy, C. V. Reddy, T. M. Aminabhavi (2019) "Nanostructured titanium oxide hybrids-based electrochemical biosensors for healthcare applications". *Colloids and Surfaces B: Biointerfaces,* Elsevier, 178, 385 – 394. S. Kumar, S. D. Bukkitgar, S. Singh, V. Singh, K. R. Reddy, N. P. Shetti, C. V. Reddy, V. Sadhu, S Naveen, (2019). "Electrochemical sensors and biosensors based on graphene functionalized with metal oxide nanostructures for healthcare applications". *ChemistrySelect,* 4(18), 5322 – 5337. S. D. Bukkitgar, N. P. Shetti, R. M. Kulkarni, K. R. Reddy, S. S Shukla, V. S. Saji, T. M. Aminabhavi (2019). "Electro-catalytic behavior of Mg-doped ZnO nano-flakes for oxidation of anti-inflammatory drug". *Journal of The Electrochemical Society*, IOP Publishing, 166 (9) B3072. M. Pavamana, N. P. Shetti, S. J. Malode, S. D. Bukkitgar, (2019) "Nano level detection and analysis of an antiviral drug at ZnO nanoparticles modified sensor". *Materials Today: Proceedings*, Elsevier, 18, 1568-1573. R. Hosamani, N. P. Shetti, S. J. Malode, S. D. Bukkitgar, (2019) "Nanosilica modified sensor for the electro-oxidation and determination of an antihistamine drug". *Materials Today: Proceedings*, Elsevier, 18, 1562-1567. A. A. Janaj, N. P. Shetti, S. J. Malode, S. D. Bukkitgar, R. M. Kulkarni (2019), TiO_2 nanoparticles modified sensor for theophylline drug". *Materials Today: Proceedings*, 18, 606-612 N. P. Shetti, S. J. Malode, S. D. Bukkitgar, R. M. Kulkarni (2019), "Electroanalysis of 1, 3–dimethylexanthine at zinc oxide nanoparticles modified electrode". *Materials Today: Proceedings*, 18, 590-595 K. C. Naik, N. P. Shetti, S. D. Bukkitgar, S. J. Malode, H. P. Uskaikar (2019), "Voltammetric sensor for secretolytic agent ambroxol at titanium dioxide nanoparticles modified electrode",*Materials Today: Proceedings*, 18, 941-946 H. P. Uskaikar, N. P. Shetti, S. D. Bukkitgar, S. J. Malode, N. V. Jamakandi, T. M. Manu (2019) "Applications of zinc oxide nanoparticles as an electrode modifier for ambroxol". Materials Today: Proceedings 18, 963-967 U. S. Devarushi, N. P. Shetti, S. D. Bukkitgar, S. M. Tuwar, (2019). "Electrochemical Behavior of an Anti-Viral Drug Valacyclovir at Carbon Paste Electrode and Its Analytical Application". *Russian Journal of Electrochemistry*, Pleiades Publishing, 54

(10), 760-768.

U. S. Devarushi, N. P. Shetti, S. D. Bukkitgar, S. M. Tuwar, (2018). "Electroanalysis of theophylline at eriochrome black–T and graphite powder composite electrode" *AIP Conference Proceedings,* AIP Publishing LLC, 1989 (1), 020009.

S. D. Bukkitgar, N. P. Shetti, R. M. Kulkarni, (2018). "Construction of nanoparticles composite sensor for atorvastatin and its determination in pharmaceutical and urine samples". *Sensors and Actuators B: Chemical*, Elsevier, 255, 1462-1470

S. D. Bukkitgar, N. P. Shetti, R. M. Kulkarni, S. D. Kulkarni, (2018). "Silver-Doped Titania Modified Carbon Electrode for Electrochemical Studies of Furantril". *ECS Journal of Solid State Science and Technology*, ECS, 7 (7), Q3215-Q3220

S. D. Bukkitgar, N. P. Shetti, (2018). "Electrochemical behavior of theophylline at methylene blue dye modified electrode and its analytical application". Materials Today: Proceedings 5 (10), 21474-21481

S. D. Bukkitgar, N. P. Shetti, R. M. Kulkarni, S. Churmure, (2018). "Nano-silica modified electrode as a sensor for the determination of mefenamic acid-A voltammetric sensor". *Materials Today: Proceedings,* 5 (10), 21466-21473

S. D. Bukkitgar, N. P. Shetti, R. M. Kulkarni, M. Wasim, (2018) "Electrochemical behavior of mefenamic acid at zinc oxide nanoparticles modified carbon paste electrode". *Materials Today: Proceedings*, 5 (10), 21458-21465

S. D. Bukkitgar, N. P. Shetti, R. M. Kulkarni, (2017). "Electro-oxidation and determination of 2-thiouracil at TiO2 nanoparticles-modified gold electrode". *Surfaces and interfaces*, Elsevier, 6, 127-133, 2017

S. D. Bukkitgar, N. P. Shetti, (2017). "Fabrication of a TiO2 and clay nanoparticle composite electrode as a sensor". *Analytical methods*, Royal Society of Chemistry, 9 (30), 4387-4393.

S. D. Bukkitgar, N. P. Shetti, (2016). "Electrochemical oxidation of loop diuretic furosemide in aqueous acid medium and its analytical application". *Cogent Chemistry*, Cogent OA, 2 (1), 1152784.

N. P. Shetti, D. S. Nayak, S. D. Bukkitgar, (2016). "Electrooxidation of antihistamine drug methdilazine and its analysis in human urine and blood samples". *Cogent Chemistry*, Cogent OA, 2 (1), 1153274.

S. D. Bukkitgar, N. P. Shetti, (2016). "Electrochemical behavior of anticancer drug 5-fluorouracil at carbon paste electrode and its analytical application". *Journal of Analytical Science and Technology*, Korea Basic Science Institute, 7 (1) 1.

S. D. Bukkitgar, N. P. Shetti, R. M. Kulkarni, S. B. Halbhavi, M. Wasim, M. Mylar, P. S Durgi, S. S Chirmure, (2016). "Electrochemical oxidation of nimesulide in aqueous acid solutions based on TiO_2 nanostructure modified electrode as a sensor". *Journal*

	of Electroanalytical Chemistry, Elsevier, 778, 103-109 S. D. Bukkitgar, N. P. Shetti, (2016). "Electrochemical behavior of an anticancer drug 5-fluorouracil at methylene blue modified carbon paste electrode*". Materials Science and Engineering: C*, Elsevier, 65, 262-268, 2016 S. D Bukkitgar, N. P Shetti, (2016). "Electrochemical Sensor for the Determination of Anticancer Drug 5-Fluorouracil at Glucose Modified Electrode" *ChemistrySelect*, 1 (4), 771-777. S. D. Bukkitgar, N. P. Shetti, R. M. Kulkarni, M. R. Doddamani, (2016). "Electro-oxidation of nimesulide at 5% barium-doped zinc oxide nanoparticle modified glassy carbon electrode". *Journal of Electroanalytical chemistry*, Elsevier, 762, 37-42. S. D. Bukkitgar, N. P. Shetti, R. M. Kulkarni, S. T. Nandibewoor, (2015). "Electro-sensing base for mefenamic acid on a 5% barium-doped zinc oxide nanoparticle modified electrode and its analytical application". *RSC Advances*, Royal Society of Chemistry, 5 (127), 104891-104899. Nagaraj P Shetti, Amit Mishra, Shikandar D Bukkitgar, Soumen Basu, Jagriti Narang, Kakarla Raghava Reddy, Tejraj M Aminabhavi (2021). "Conventional and nanotechnology-based sensing methods for SARS coronavirus (2019-nCoV)". ACS applied bio materials, American Chemical Society, 1178-1190 Shariq Suleman, Sudheesh K Shukla, Nitesh Malhotra, Shikandar D Bukkitgar, Nagaraj P Shetti, Roberto Pilloton, Jagriti Narang, Yen Nee Tan, Tejraj M Aminabhavi (2021). "Point of care detection of COVID-19: Advancement in biosensing and diagnostic methods". Chemical Engineering Journal, Elsevier, 128759 Shikandar D Bukkitgar, Nagaraj P Shetti, Tejraj M Aminabhavi (2021). "Electrochemical investigations for COVID-19 detection-A comparison with other viral detection methods" Chemical Engineering Journal, , Elsevier, 127575 Mahesh M Shanbhag, Shikandar D Bukkitgar, Pradakshina Sharma, Nagaraj P Shetti (2022). "Nanostructured electrodes". Woodhead Publishing, Electrochemical Sensors, 147-175 FM Sanakousar, CC Vidyasagar, DB Shikandar, Victor M Jiménez-Pérez, CC Viswanath (2023) Thermal decomposition synthesis of cylindrical rod-like MoO3 and irregular sphere-like Ag2MoO4 nanocrystals for accelerating photocatalytic degradation of industrial reactive …Journal of Environmental Chemical Engineering, 109371 FM Sanakousar, CC Vidyasagar, DB Shikandar, CC Viswanatha (2024) Electrocatalytic and photocatalytic activity of CuTiO 3 perovskites for complete degradation of methylene blue under sunlight irradiation, Reaction Chemistry & Engineering 9 (2), 388-409 SD Bukkitgar, NP Shetti, KR Reddy (2022). Recent Trends in Nanomaterial-Based Electrochemical Biosensors for Biomedical Applications Smart Nanodevices for Point-of-Care Applications, 309-322

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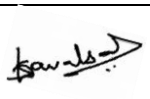
Faculty Profile

	NKM FM Sanakousar, CC Vidyasagar, DB Shikandar, CC Viswanatha, Gururaj (2023) 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 Reaction Chemistry & Engineering 8 (10), 2566-2591		
1.5.	**Language skills (ability to)**	**Speak:**	**Read / Write**
		English	English
		Hindi	Hindi
		Kannada, Urdu	Kannada, Urdu
2.	**Employment Information and Professional Experience till date**		
2.1.	**Employment Information**		
a)	Job title	Assistant Professor	
	Employer	K.L.E. Institute of Technology	
	Dates (from – to)	28 Aug 2009 – till dated	
b)	Job title	Lecturer	
	Employer	Bangurnagar PU college	
	Dates (from – to)	July 2008 – Aug 2009	
	Responsibilities	HOD of department, CET guidance	

2.2.	**Public Service & Volunteer Work**	
a)		
2.3.	**Other professional achievements such as any awards, special skills, etc.**	
a)	UGC sponsored National seminar on The scope of Material Science, 24th – 25th March 2017, G.S.S. College, Belagavi (Awarded Best Paper)	
b)	Electrochemical sensing base for furosemide at Ag-doped TiO2 nanoparticles modified electrode and its analytical application, 2nd National Conference on Emerging Trends in Chemistry and Material science, 23rd, Jan 2016, GIT, Belagavi (Awarded Best Poster)	
3.	**Any other information**	
3.1.	**Strengths**	Punctual, Honesty, Team work, strong analytical ability, problem solving skill.
4.	**General information**	
4.1.	Name	Shikandar D. B.
4.2.	Gender	Male
4.3.	Nationality	Indian
4.4.	Date of birth	19/04/1985
4.5.	Contact address	H.No. 1243 R. M. Lohiyanagar Gokul road Hubballi
4.6.	Phone / mobile number	+91-9632451098
4.7.	Email	shasik143@gmail.com

03-04-2024	Shikandar D. B	
Date	Full name	Signature