

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)	B.Sc	Karnatak University, Dharwad	CBZ	2006	Distinction
b)	M.Sc	Kuvempu University, Shivammoga	Biochemistry	2008	1 st Class
c)	Ph.D	VTU, Belagvi	Chemistry	2017	--
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)	<p>NKM FM Sanakousar, CC Vidyasagar, DB Shikandar, CC Viswanatha, Gururaj ...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 Impact Factor 3.25</p> <p>FM Sanakousar, CC Vidyasagar, DB Shikandar, CC Viswanatha, ...Electrocatalytic and photocatalytic activity of CuTiO₃ perovskites for complete degradation of methylene blue under sunlight irradiation, Reaction Chemistry & Engineering 9 (2), 388-409 Impact Factor 3.25</p> <p>Sanakousar F. M, Vidyasagar C. C, Shikandar D. B, Victor. M. Jiménez-Pérez, Mounesh, Viswanath C. C, Prakash K, Thermal decomposition synthesis of cylindrical rod-like MoO₃ and irregular sphere-like Ag₂MoO₄ nanocrystals for accelerating photocatalytic degradation of industrial reactive dyes and biosensing application, Journal of Environmental Chemical Engineering, 11, 2023, 109371 Impact Factor 3.25</p> <p>NP Shetti, A Mishra, SD Bukkitgar, S Basu, J Narang, KR Reddy, TM Aminabhavi, Conventional and Nanotechnology-Based Sensing Methods for SARS Coronavirus (2019- nCoV), ACS Applied Bio Materials, 4 (2021) 1178-1190 Impact Factor 3.25</p>				

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S Suleman, SK Shukla, N Malhotra, **SD Bukkitgar**, NP Shetti, R Pilloton, J Narang, YN Tan, TM Aminabhavi, Point of care detection of COVID-19: Advancement in biosensing and diagnostic methods, Chemical Engineering Journal (2021) 128759

Impact Factor 13.07

SD Bukkitgar, NP Shetti, TM Aminabhavi, Electrochemical investigations for COVID-19 detection-A comparison with other viral detection methods, Chemical Engineering Journal, (2021) 127575 **Impact Factor 13.07**

SD Bukkitgar, S Kumar, S Singh, V Singh, KR Reddy, V Sadhu, GB Bagihalli, NP Shetti, CV Reddy, K. Ravindranadh, S. Naveen, Functional nanostructured metal oxides and its hybrid electrodes-Recent advancements in electrochemical biosensing applications, Microchemical Journal, 159 (2020)105522 **Impact Factor 3.59**

SD Bukkitgar, NP Shetti, KR Reddy, TA Saleh, TM Aminabhavi, Ultrasonication and electrochemically- assisted synthesis of reduced graphene oxide nanosheets for electrochemical sensor applications, FlatChem, 23 (2020) 100183 **Impact Factor 4.85**

SD Bukkitgar, NP Shetti, RS Malladi, KR Reddy, SS Kalanur, TM Aminabhavi, Novel ruthenium doped TiO₂/reduced graphene oxide hybrid as highly selective sensor for the determination of ambroxol, J. Mol. Liq., 300 (2020) 112368 **Impact Factor 5.065**

NP Shetti, SJ Malode, DS Nayak, **SD Bukkitgar**, GB Bagihalli, RM Kulkarni, KR Reddy, Novel nanoclay-based electrochemical sensor for highly efficient electrochemical sensing nimesulide, J. Phys. Chem. Solids 137 (2020) 109210 **Impact Factor 3.442**

NP Shetti, **SD Bukkitgar**, KR. Reddy, Ch. V. Reddy, Metal oxide-based hybrid nanostructured electrodes for electrochemical sensors and biosensors for biomedical applications, Biosens. Bioelectron., 141 (2019) 111417 **Impact Factor 10.257**

NP Shetti, **SD Bukkitgar**, KR Reddy, Ch. V Reddy, Nanostructured titanium oxide hybrids- based electrochemical biosensors for healthcare applications, Colloids and Surface B.,178 (2019) 385 - 394 **Impact Factor 4.389**

S Kumar, **SD Bukkitgar**, S. Singh, V. Singh, K. R. Reddy, N P Shetti, Ch Venkata Reddy, V Sadhu, S Naveen, Electrochemical Sensors and Biosensors Based on Graphene Functionalized with Metal Oxide Nanostructures for Healthcare Applications, ChemistrySelect 4 (2019) 5322 - 5337 **Impact Factor 1.811**

NP. Shetti, SJ. Malode, **SD Bukkitgar**, GB. Bagihalli, RM. Kulkarni, SB. Pujari, KR Reddy, Electro- oxidation and determination of nimesulide at nanosilica modified sensor, Materials Science for Energy Technologies, 2 (2019) 396 - 400

US Devarushi, NP Shetti, **SD Bukkitgar**, SM Tuwar, Electrochemical Behavior of an Anti- Viral Drug Valacyclovir at Carbon Paste Electrode and Its Analytical

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Application, Russ. J. Electrochem., 54 (2018) 760-768 **Impact Factor 1.030**

SD Bukkitgar, NP Shetti, RM Kulkarni, KR Reddy, SS Shukla, VS Saji, TM Aminabhavi, Electro- catalytic Behavior of Mg-doped ZnO Nano-flakes for Oxidation of Anti- inflammatory Drug, J. Electrochem. Soc., 166 (2019) B3072-B3078 **Impact Factor 3.721**

SD Bukkitgar, NP Shetti, RM Kulkarni, SD Kulkarni, Silver-Doped Titania Modified Carbon Electrode for Electrochemical Studies of Furantril, ECS J. Solid State Sci. Technol., 7(2018) Q3215-Q3220 **Impact Factor 2.142**

SD Bukkitgar, NP Shetti, RM Kulkarni, Construction of nanoparticles composite sensor for atorvastatin and its determination in pharmaceutical and urine samples, Sensors and Actuators B: Chemical, 255 (2018) 1462-1470 **Impact Factor 7.100**

SD Bukkitgar, NP Shetti, RM Kulkarni Electro-oxidation and determination of 2-thiouracil at TiO₂ nanoparticles-modified gold electrode, Surfaces and Interfaces, 6 (2017) 127-133 **Impact Factor 3.724**

SD Bukkitgar, NP Shetti, Fabrication of a TiO₂ and clay nanoparticle composite electrode as a sensor, Analytical methods, 9 (2017) 4387-4393 **Impact Factor 2.073**

SD Bukkitgar, NP Shetti , Electrochemical oxidation of loop diuretic furosemide in aqueous acid medium and its analytical application, Cogent Chemistry, 2 (2016) 1152784

NP Shetti, DS Nayak, **SD Bukkitgar**, Electrooxidation of antihistamine drug methdilazine and its analysis in human urine and blood samples, Cogent Chemistry, 2 (2016) 1153274

SD Bukkitgar, NP Shetti, Electrochemical behavior of anticancer drug 5-fluorouracil at carbon paste electrode and its analytical application, Journal of Analytical Science and Technology, 7 (2016)1-9

SD Bukkitgar, NP Shetti, RM Kulkarni, SB Halbhavi, M Wasim, M Mylar, Electrochemical oxidation of nimesulide in aqueous acid solutions based on TiO₂ nanostructure modified electrode as a sensor, J. Electroanal. Chem., 778 (2016)103-109 **Impact Factor 3.807**

SD Bukkitgar, NP Shetti, Electrochemical behavior of an anticancer drug 5-fluorouracil at methylene blue modified carbon paste electrode, Materials Science and Engineering: C, 65 (2016) 262-268 **Impact Factor 5.880**

SD Bukkitgar, NP Shetti Electrochemical Sensor for the Determination of Anticancer Drug 5-Fluorouracil at Glucose Modified Electrode ChemistrySelect, 1 (2016) 771-777 **Impact Factor 1.811**

SD Bukkitgar, NP Shetti, RM Kulkarni, MR Doddamani Electro-oxidation of nimesulide at 5% barium- doped zinc oxide nanoparticle modified glassy carbon

electrode, J. Electroanal. Chem., 762 (2016) 37-42 **Impact Factor 3.807**

SD Bukkitgar, NP Shetti, RM Kulkarni, ST Nandibewoor Electro-sensing base for mefenamic acid on a 5% barium-doped zinc oxide nanoparticle modified electrode and its analytical application, RSC Advances, 5 (2015) 104891-104899 **Impact Factor 3.119**

Conference Proceeding

SD Bukkitgar, NP Shetti, Electrochemical behavior of theophylline at methylene blue dye modified electrode and its analytical application, Materials Today: Proceedings, 5 (2018) 21474-21481

SD Bukkitgar, NP Shetti, RM Kulkarni, S Churmure, Nano-silica modified electrode as a sensor for the determination of mefenamic acid-A voltammetric sensor, Materials Today: Proceedings, 5 (2018), 21466- 21473

SD Bukkitgar, NP Shetti, RM Kulkarni, M Wasim Electrochemical behavior of mefenamic acid at zinc oxide nanoparticles modified carbon paste electrode, Materials Today: Proceedings, 5 (2018) 21458-21465

US Devarushi, NP Shetti, **SD Bukkitgar**, SM Tuwar, Electroanalysis of theophylline at eriochrome black- T and graphite powder composite electrode, AIP Conference Proceedings 1989 (2018) 020009

M Pavamana, NP Shetti, SJ Malode, **SD Bukkitgar**, Nano level detection and analysis of an antiviral drug at ZnO nanoparticles modified sensor, Materials Today: Proceedings 18 (2019) 1568-1573

R Hosamani, NP Shetti, SJ Malode, **SD Bukkitgar**, Nanosilica modified sensor for the electro-oxidation and determination of an antihistamine drug, Materials Today: Proceedings 18 (2019) 1562-1567

AA Janaj, NP Shetti, SJ Malode, **SD Bukkitgar**, RM Kulkarni, TiO₂ nanoparticles modified sensor for theophylline drug, Materials Today: Proceedings 18 (2019) 606-612

AB Bandi, NP Shetti, SJ Malode, **SD Bukkitgar**, RM Kulkarni, Electroanalysis of 1, 3- dimethylexanthine at zinc oxide nanoparticles modified electrode, Materials Today: Proceedings 18 (2019) 590-595

KC Naik, NP Shetti, **SD Bukkitgar**, SJ Malode, HP Uskaikar, Voltammetric sensor for secretolytic agent ambroxol at titanium dioxide nanoparticles modified electrode, Materials Today: Proceedings 18 (2019) 941-946

HP Uskaikar, NP Shetti, **SD Bukkitgar**, SJ Malode, NV Jamakandi, TM Manu, Applications of zinc oxide nanoparticles as an electrode modifier for ambroxol, Materials Today: Proceedings 18 (2019) 963-967

Book Chapters

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	<p>SD Bukkitgar, NP Shetti, KR Reddy, Recent Trends in Nanomaterial-Based Electrochemical Biosensors for Biomedical Applications, Smart Nanodevices for Point-of-Care Applications, 309-322, 2022</p> <p>MM Shanbhag, SD Bukkitgar, P Sharma, NP Shetti, Nanostructured electrodes Electrochemical Sensors, 147-175, 2022</p> <p style="text-align: center;">Conference/seminars Attended</p> <p>Electrochemical sensor for the detection of mefenamic acid in pharmaceutical sample and human urine at glassy carbon electrode, 1st National Conference on Emerging Trends in Chemistry and Material science, 13th, October 2014, GIT, Belagavi</p> <p>Electrochemical behavior of 5-fluorouracil at methylene blue modified carbon paste electrode, 51st annual convention of chemist, Indian council of Chemist, 9th – 12th, December 2014, Kurukshetra University, Kurukshetra</p> <p>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)</p> <p>Electrochemical behavior of theophylline at methylene blue dye modified electrode and its analytical application, International conference on Smart Engineering Materials, 20 - 22nd, October 2016, RV College, Bangalore</p> <p>UGC sponsored National seminar on The scope of Material Science, 24th – 25th March 2017, G.S.S. College, Belagavi (Awarded Best Paper)</p>									
1.5.	Language skills (ability to)	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Speak:</th> <th style="text-align: center;">Read / Write</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Kannada</td> <td style="text-align: center;">Kannada</td> </tr> <tr> <td style="text-align: center;">Hindi</td> <td style="text-align: center;">Hindi</td> </tr> <tr> <td style="text-align: center;">English</td> <td style="text-align: center;">English</td> </tr> </tbody> </table>	Speak:	Read / Write	Kannada	Kannada	Hindi	Hindi	English	English
Speak:	Read / Write									
Kannada	Kannada									
Hindi	Hindi									
English	English									
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)	28-8-2009 – till date								
	Responsibilities									
	Job title	Lecturer Employer								
	Employer	Bangurnagar PU college								
	Dates (from – to)	July 2008 – Aug 2009								
	Responsibilities	HOD of department, CET guidance								
2.2.	Public Service & Volunteer Work									
2.3.	Other professional achievements such as any awards, special skills, etc.									
	UGC sponsored National seminar on The scope of Material Science, 24th – 25th March 2017, G.S.S. College, Belagavi (Awarded Best Paper)									
	Electrochemical sensing base for furosemide at Ag-doped TiO ₂ nanoparticles modified									

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	<p>electrode and its analytical application, 2nd National Conference on Emerging Trends in Chemistry and Material science, 23rd, Jan 2016, GIT, Belagavi (Awarded Best Poster)</p> <p>Reviewer Sensors International Material Science for Energy Technology</p> <p>VTU-Grant given to the Research Proposal entitled “Functionalized Carbon-based quantum dots for fluorescence and electrochemical assay of cancer biomarkers” under Research Grants Scheme-2021.</p> <p>Invited speaker “SECOND INTERNATIONAL CONFERENCE ON Advanced Materials for Health, Energy and Environment (AMHEE-2023)” 28th Feb. - 2nd March 2023</p>	
3.	Any other information	
3.1.	Strengths	Research
4.	General information	
4.1.	Name	Dr. Shikandar D B
4.2.	Gender	Male
4.3.	Nationality	Indian
4.4.	Contact address	Dept of Chemistry K.L.E Institute of Technology
4.5.	Phone / mobile number	+91-9632451098
4.6.	Email	shikandarb@kleit.ac.in

Date	Full name	Signature