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Qualification	**Ph.D., *Chemistry*** (2010-2013; 2-12-2013) Dept. of Chemistry, Shivaji University, Kolhapur, MS, India (Ph.D.Thesis: *Studies on Photophysical Properties of Some Cadmium Chalcogenides)* (Advisor: *Prof. Govind B. Kolekar*, Professor in Physical Chemistry, SUK, MS,India) **M.Sc., *Anal. Chemistry*** (2005-2007; 14-05-2007; 67.21%) Dept. of Analytical Chemistry, Shivaji University, Kolhapur, MS, India **B.Sc., *Chemistry*** (2002-2005; 12-05-2005; 66.80%) Dept. of Chemistry, Shahajiraje Mahavidyalaya Khatav, Satara,MS, India Dept. of Chemistry, Shankarao Mohite Mahavidyalaya, Akluj,MS, India
Area of interest	✓ Synthesis/preparation of carbon based nanomaterial (CNMs) by utilizing sustainable/green/waste based sources & its applications (sensing, detection, wastewater treatment, environmental remediation, optical, optoelectronic devices, tissue engineering, agriculture etc.). ✓ Designing of polymer@CNMs hybrid *(nanofiber, hydrogel, transparent thin film etc.*) for multifaceted applications. ✓ Synthesis & photophysical study of functional/fluorescent/plasmonic/ photonics nanomaterial (QDs/MNPs/CDs). ✓ Development of nanomaterial based fluorescent/optical sensor for detection/sensing of analytes (Turn-on/Turn-off/FRET/SET Probe). ✓ Solvatochromism & spectroscopic analysis of binding interaction between protein/biomolecule-drug/dye/nanomaterial.
Research Experience	➢ **Young Scientist Fellow** (2016-2019, Funded by DST-SERB, New Delhi) Dept. of Chemistry, Shivaji University, Kolhapur, MS, India ➢ **Research Professor (Postdoctoral Fellow)** (2015-2016, Funded by NSF Korea) School of Mechanical Engineering, Korea University, Seoul, South Korea. ➢ **Senior Research Fellow** (2013-2014, Funded by DAE-BRNS & collab. with BARC, Mumbai) Dept. of Chemistry, Shivaji University, Kolhapur, MS, India ➢ **Junior Research Fellow** (2011-2013, Funded by DAE-BRNS & collab. with BARC, Mumbai) Dept. of Chemistry, Shivaji University, Kolhapur, MS, India
Teaching Experience	➢ **Assistant Professor-Contributory** (2016-2019, M.Sc. & B.Sc. Analytical Chemistry) P.G. Department of Chemistry, R.C. Shahu College, Kolhapur, MS, India ➢ **Assistant Professor-Contractual** (2014-2015, M.Sc. Industrial Chemistry) Department of Chemistry, Shivaji University, Kolhapur, MS, India ➢ **Assistant Professor-Contributory** (2009-2014, M.Sc. Industrial Chemistry) Department of Chemistry, Shivaji University, Kolhapur, MS, India ➢ **Teaching Assistant** (2009-2011, M.Sc. Analytical Chemistry) Department of Chemistry, Shivaji University, Kolhapur, MS, India

Industrial Experience	➢ **Research Associate** (2007-2009, ADL Department, R & D Center) Calyx Chemicals & Pharmaceuticals Ltd, Mumbai, MS, India ➢ **Trainee Scientist** (2007-2007, Q.C. Department) Excel Industries Ltd, Roha, Raigad, MS, India
Achievements	✓ **Awarded 1st Prize, Poster Presentation,** *YCIS, Satara (16th -18th Feb. 2019)* Inter. Conference on Chemistry, Energy and Environment (ICCEE-2019) ✓ **Awarded 2nd Prize, Poster Presentation**, *SUK, Kolhapur (1st-3rd Feb. 2018)* International Conference on Advances in Chemical Sciences (ICACS-2018) ✓ **Outstanding Reviewer Award,** *Elsevier,* Amsterdam,Netherlands (Aug.2018) Journals - J. Cleaner Production & Spectrchem.Acta A ✓ **Young Scientist Award**, *(Oct.2016)* Funded by DST-SERB, New Delhi, Govt. of India (Worth of Rs. 32,67,000/-) ✓ **RSC e-membership,** *(Since 2012)* Royal Society of Chemistry, Cambridge, UK ✓ **Best Oral Presentation Award**, *PU, Chandigarh, (11th-12th Feb. 2011)* International Conference on Recent Trends in Chemistry (ICETC-2011) ✓ **Awarded 1st Prize,** *Shivaji University, Kolhapur (15th Dec. 2011*) VIth University Level Research Convention (Avishkar 2011-12) ✓ **Awarded 1st Prize,** *Shivaji University, Kolhapur (23rd Nov. 2011*) VIth District Level Research Convention (Avishkar 2011-12) ✓ **Reviewer -** J.Clean.Prod., J.Photchem.Photobiol.A & B, Spectrochem.Acta- A, Luminescence, J.Fluorescence, Sep.Purif.Technol., Dyes & Pigments.
List of Publications	❖ **Research Publications - Patent (03 No.)** (1) A Novel Methodology to Prepare Sustainable and Versatile Activated Carbon from Waste Biomass for Quick, Continuous and Pressure Filtration Technology ***Anil H. Gore****, Chandrashekahr S. Patil, Datta B. Gunjal, Vaibhav M. Naik, Ravindra D. Waghmare, Govind B. Kolekar* ***Indian Patent No. 201921013770 , filed on 05-04-2019, Journal No. 19/2019 Dated 10/05/2019,p19428*** (2) Waste Tea Residue Derived Carbon Nanodots Enhances Productivity in Fenugreek by Improving Chlorophyll Content and Mineral Uptake *Ravindra D. Waghmare,* ***Anil H. Gore****, Vaibhav M. Naik, Datta B. Gunjal,Mansingraj S. Nimbalkar Govind B. Kolekae** ***Indian Patent No. 201921021629 A, filed on 07-06-2019, Journal No. 23/2019 Dated 07/06/2019, p23901*** (3) Carbon Dots-Fe^{3+} System as a Dual Probe for the Selective Determination of D-Penicillamine *Vaibhav M. Naik, Datta B. Gunjal, Ravindra D. Waghmare,* ***Anil H. Gore****, Govind B. Kolekar* ***Indian Patent No. 201721041497 , filed on 22-07-2017, Journal No. 51/2017 Dated 22/12/2017 49938***

❖ **Research Publications - Books & Review (02 No.)**

(1) Fluorescent Chemosensor for Quantitation of Multiple Atmospheric Gases (Review Article)
D.P. Bhopate, K.H. Kim, P.G. Mahajan,* ***A.H. Gore****, S.R. Patil, S.M. Majhi, G.K. Naik, T.T. Liang, J-Md. Ahemad, Y.T. Yu and A.N. Kadam*
J.Nanomed. Nanotechnol.,8 **(2017) 436** ***(I.F. = 3.57)***

(2) Carbon Based Composite Hydrogels for Environmental Remediation (Book Chapter): Handbook of Environmental Remediation through Carbon Based Nanocomposites
Omkar S. Nille, Akshay S. Patil, Govind B. Kolekar, ***A.H. Gore****
Invited book chapter ***by Green Energy & Technology,***
Publisher, Springer-Nature **(2019 Submitted)**

❖ **Research Publications - Articles/Papers (42 No.)**

(1) Reactivation, Reuse & Recyclability Study of Carbon from Exhausted Water Filter Cartridges: An Innovative Approach for Environmental Remediation through Waste Utilization
Prachi Bote, Siddharth Vaze, ***Anil H. Gore****
ACS Sustain. Chem. & Engineering **(2019) under preparation** ***(I.F. = 5.5)***

(2) Electrospun PAN/GO Nanofibrous Membrane for Effective Removal of Multiple Pollutant from Wastewater
Sanjivkumar R. Mali, Chandrashekahr S. Patil, Anand D. Sawant, ***Anil H. Gore****
ACS Appl. Poly. Mater. **(2019) under preparation** ***(I.F. =)***

(3) Designing of Alginate-Agarose Based Hydrogel for Modern Antimicrobial Wound Dressing Applications
Siddharth Vaze, Shailesh Dugam, ***Anil H. Gore****
Int. J. Biol. Macromol.**(2019) under preparation** ***(I.F. = 4.78)***

(4) Highly transparent, flexible and re-emissive PVA@WTR-CDs composite thin films: A novel photophysical insights for modern UV blocking applications
Akashy S. Patil, Chandrashekhar S. Patil, Suresh T. Salunkhe, Govind B. Kolekar, Daewon Sohn ***Anil H. Gore*,***
Macromolecules **(2019) submitted** ***(I.F. = 5.99)***

(5) A sustainable and versatile activated carbon from waste biomass for quick, continous and pressure filtration technology
Chandrashekhar S. Patil, Datta B. Gunjal, Vaibhav M. Naik, Abhijit N.Kadam, Govind B. Kolekar, ***Anil H. Gore****
ACS Appl. Mater. Interfaces **(2019) submitted** ***(I.F. = 8.0)***

(6) Direct Removal of Pollutants from Textile Wastewater by Novel Carbon Sheet@Sea Sand Composite: Industrial Wastewater Remediation through Sustainable, Greener, and Scalable Methodology
Chandrashekhar S. Patil, Datta B. Gunjal, Vaibhav M. Naik, Abhijit N. Kadam, Sang-Wha Lee, Govind B. Kolekar, ***Anil H. Gore****
J. Cleaner Production., **(2019) Revision submitted** ***(I.F. = 6.43)***

	(7) A Phenazine based Colorimetric and Fluorescent Chemosensor for Sequential Detection of Ag^{+} and I^{-} in Aqueous Media *Pravin R. Dongre, **Anil H. Gore,** Govind B. Kolekar, Balu D. Ajalkar** ***Luminescence,* (2019), In Press, Accepted Manuscript *(I.F. = 1.69)*** (8) Designing of Sustainable, Solid-State and Photoluminescence Switchable Electrospun Nanofibrous PVA/WTR-CDs Hybrid Films: A Photophysical Study ***Anil H. Gore*,** *Akashy S. Patil, Chandrashekhar S. Patil, Datta B. Gunjal, Govind B. Kolekar* ***J. Photochem. Photobiol., A*, 380 (2019) 111815 *(I.F. = 2.89)*** (9) Nitrogen Doped Carbon Dots Via Hydrothermal Synthesis: Naked Eye Fluorescent Sensor for Dopamine and Used for Multicolour Cell Imaging *Vaibhav M Naik, Pranjita Zantye, Datta B Gunjal, **Anil H Gore**, Prashant V. Anbhule, Meenal Kowshik, Sheshanath V. Bhosale, **Govind B. Kolekar*** ***ACS Applied Bio Materials.*, 2 (2019) 2069-2077 *(I.F. = 4.5)*** (10) An Innovative Transformation of Waste Toner Powder into Magnetic g-C_3N_4-Fe_2O_3 Photocatalyst: Sustainable e-waste Management *Santosh S. Babar, Nana L. Gavade, Harish S. Shinde, **Anil H. Gore**, Prasad G. Mahajan, Ki H. Lee, Vijaykumar M. Bhuse*, Kalyanrao M. Garadkar**** ***J Environ. Chem. Eng.* 7 (2019) 103041 *(I.F. = 1.38)*** (11) Waste derived sustainable carbon nanodots as a new approach for sensitive quantification of Ethionamide and cell imaging *Datta B. Gunjal, **Anil H.Gore,** Amrut R. Bhosale, Vaibhav M. Naik, Prashant V. Anbhule, Rajendra V. Shejwal*** and Govind B. Kolekar**** ***J. Photochem. Photobiol., A*, 376 (2019) 54–62 *(I.F. = 2.89)*** (12) Sustainable carbon nanodots synthesised from kitchen derived waste tea residue for highly selective fluorimetric recognition of free chlorine in acidic water: A waste utilization approach *Datta B. Gunjal, Vaibhav M. Naik, Ravindra D. Waghmare, Chandrashekhar S. Patil, Rajendra V.Shejwal, **Anil H. Gore**** , Govind B. Kolekar **** ***J. Taiwan Inst. Chem. Eng.*, 95 (2019) 147-154 *(I.F. = 3.84)*** (13) Carbon dots as a dual sensor for the selective determination of d-penicillamine and biological applications *Datta B. Gunjal, **Anil H. Gore,** Vaibhav M. Naik, Samdhan P. Pawar, Prashant V. Anbhule, Rejendra V. Shejwal, Govind B. Kolekar **** ***Optical Materials* , 88 (2019) 134-142 *(I.F. =2.34)*** (14) Waste Tea Residue as a Low Cost Adsorbent for Removal of Hydralazine Hydrochloride Pharmaceutical Pollutant from Aqueous Media: An Environmental Remediation *Chandrashekhar S. Patil, Datta B. Gunjal, Vaibhav M. Naik, Namdev S. Harale, Suryabala D. Jagadale, Abhijit N. Kadam, Pramod S. Patil, Govind B. Kolekar, **Anil H. Gore**** ***J. Cleaner. Prod.* , 206 (2019) 407-418 *(I.F. = 5.65)*** (15) Quick and Low Cost Synthesis of Sulphur Doped Carbon Dots by Simple Acidic Carbonization of Sucrose for the Detection of Fe^{3+} Ions in Highly Acidic

	Environment *Vaibhav M. Naik, Datta B. Gunjal,* ***Anil H. Gore,*** *Samdhan P. Pawar, Sunanda T. Mahanwar, Prashant V. Anbhule, Govind B. Kolekar ** ***Diam. Relat. Mater.*** **88 (2018) 262-268** ***(I.F. = 2.23)*** (16) Waste packaging polymeric foam for oil-water separation: An environmental remediation ***Chandrashekhar S. Patil****, Vaibhav R. Patil, Sanket N.Anbhule, Chandrakant J. Khilare, Govind B. Kolekar,* ***Anil H .Gore**** ***Data in Brief*****, 19 (2018) 86-92** ***(I.F. = 0.28)*** (17) Stereoselective HPLC Separation of Alvimopan on Cellulose-Based Immobilized Polysaccharide as a Chiral Stationary Phase Nitin H. Dhekale, Dattatray B. Gunjal, **Anil H. Gore**, Yagnakirankumar Komaravolu, K. Hima Bindu, Govind B. Kolekar***** **Chirality, 30 (2018) 982-987** ***(I.F. = 1.83)*** (18) A Quinazolinone Based Fluorescent Chemosensor for Selective Detection of Fe (III) in Aqueous Media: Applications to Pharmaceutical and Environmental Analysis *Pravin R. Dongare,* ***Anil. Gore,*** *Uttam R. Kondekar, Govind B. Kolekar, Balu D. Ajalkar** ***Inorganic & Nano-Metal Chemistry*****, 48 (2018) 49-56** ***(I.F. = 2.03)*** (19) Studies on Structural, Optical, Thermal and Electrical Properties of Perylene-Doped p-terphenyl Luminophors *Netaji K. Desai*, Prasad G. Mahajan, Dhanaji P. Bhopate, Dattatray K. Dalavi, Avinash A. Kamble,* ***Anil H. Gore****, Tukaram D. Dongale, Govind B. Kolekar, Shivajirao R. Patil** ***J. Fluorescence*****, 28 (2018) 51-63** ***(I.F. = 1.66)*** (20) Amide Functionalized Ionic Liquid as Facile Fluorescent Probe for Detection of Nitrophenolic Compounds *Sandip K. Patil, Deepak V. Awale, Madagonda M. Vadiyar, Suryakant A. Patil, Sagar C. Bhise,* ***Anil H. Gore****, Govind B. Kolekar, Jin H. Kim, Sanjay S. Kolekar** ***Chemistry Select,*** **2 (2017) 4124-4130** ***(I.F. = 1.45)*** (21) Fluorescence Based Sensor for Selective and Sensitive Detection of Amoxicillin (Amox) in Aqueous Medium: Application to Pharmaceutical and Biomedical Analysis *Samadhan P. Pawar, Laxman S. Walekar, Datta B. Gunjal, Datttatray K. Dalvi,* ***Anil H. Gore****, Prashant V. Anbhule, Shivajirao R. Patil and Govind B. Kolekar** ***Luminescence,*** **32 (2017) 918–923** ***(I.F. = 1.50)*** (22) Cetyltrimethyl Ammonium Bromide (CTAB) Stabilized Coronene Nanowires for the Fluorimetric detection of CR (VI): Analytical Validation Against Industrial Effluents *D. P. Bhopate , P. G. Mahajan, D. K. Dalvi ,* ***A. H. Gore*** *, A. A. Kamble , S. M. Majhi, K. M. Garadkar , G. B. Kolekar , Y-T. Yub, S. R. Patil** ***Journal of Chemical Engineering & Its Applications*** **(2017)**

	(23) CdS Nanocrystals as Fluorescent Probe for Detection of Dolasetron Mesylate in Aqueous Solution: Application to Biomedical Analysis *Samadhan P. Pawar, Laxman S. Walekar, Uttam R. Kondekar, Datta B. Gunjal,* ***Anil H. Gore****, Prashant V. Anbhule, and Govind B. Kolekar** ***J. Pharm. Analysis,* 6 (2016) 410-416 *(I.F. = 1.14)*** (24) Synthesis, Biological Evaluation and Molecular Docking Studies of Some Novel Indenospiro Derivatives as Anticancer Agents *Ajinkya A. Patravale,* ***Anil H. Gore****, Govind B. Kolekar, Madhukar B. Deshmukh, Prafulla B. Choudhari, Manish S. Bhatia, Shivadatta Prabhu, Mahendra D. Jamdhade, Milind S. Patole, Prashant V. Anbhule** ***J. Taiwan Inst. Chem. Eng.*, 68 (2016) 105-118 *(I.F. = 2.84)*** (25) Contemporary development in sequential Knoevenagel, Michael addition multicomponent reaction for the synthesis of 4-Aryl-5-oxo-5H-indeno [1, 2-b] pyridine-3-carbonitrile *Ajinkya A. Patraval,* ***Anil H. Gore****, Dipti R. Patil, Govind B. Kolekar, Madhukar B. Deshmukh, Prafulla B. Choudhari, Manish S. Bhatia, Prashant V. Anbhule** ***Res. Chem. Intermed.,* 42 (2015) 2919-2935 *(I.F. = 1.22)*** (26) Spectroscopic Analysis on the Binding Interaction of Biologically Active Pyrimidine Derivative with Bovine Serum Albumin *Vishwas D. Suryawanshi, Laxman S. Walekar,* ***Anil H. Gore****, Prashant V. Anbhule, Govind B. Kolekar** ***J. Pharm. Analysis,* 6 (2016) 56-63, *(I.F. = 1.14)*** (27) Surfactant Stabilized AgNPs as a Colorimetric Probe for Simple and Selective Detection of Hypochlorite Anion (ClO^-) in Aqueous Solution: Environmental Sample Analysis *Laxman S. Walekar, Samadhan P. Pawar,* ***Anil H. Gore****, Vishwas D. Suryawanshi, Santosh S. Undare, Prashant V. Anbhule, Shivajirao R. Patil, Govind B. Kolekar** ***Colloid Surface A,* 491 (2016) 78–85, *(I.F. = 2.75)*** (28) A Quantum Dots-Based Dual Fluorescent Probe for Recognition of Mercuric Ion and N-Acetylcysteine: "On-Off-On" Approach *Samadhan P. Pawar, Laxman S. Walekar, Uttam R. Kondekar, Datta B. Gunjal,* ***Anil H. Gore****, Prashant V. Anbhule, Shivajirao R. Patil and Govind B. Kolekar** ***Anal. Methods*, 8 (2016) 6512-6519 *(I.F. = 1.89)*** (29) Sequence Selective Michael Addition for Synthesis of Indeno-Pyridine and Indeno-Pyran Derivatives in One-Pot Reaction Using CuO Nanoparticles in Water *Navanath J. Valekar, Prasad P. Patil,* ***Anil H. Gore****, Govind B. Kolekar, Madhukar B. Deshmukh and Prashant V. Anbhule** ***J. Heterocyclic Chem.,* 52 (2016) 1669-1676 *(I.F. = 0.787)*** (30) Ion Exchange Resins as a Reusable acid Catalyst for an Efficient Synthesis of Coumarins via von Pechmann reaction *V. D. Suryawanshi,* ***A. H. Gore,*** *P. V. Anbhule, S. R. Patil, G. B. Kolekar**

	Journal of Shivaji University (Science & Technology),* 42 (2016-17)** (31) Turn-on Fluorescence Probe for Selective and Sensitive Detection of D-Penicillamine by CdS Quantum Dots in Aqueous Media: Application to Pharmaceutical Formulation *Samadhan P. Pawar, **Anil H. Gore**, Prashant V. Anbhule, Shivajirao R. Patil and Govind B. Kolekar** ***Sens. Actuators B-Chem.,* 209 (2014) 911-918 *(I.F. = 5.40) (32) Ultrasensitive, Highly Specific, Colorimetric Recognition of Sulfide Ions [S^{2-}] in Aqueous Media: Applications to Environmental Analysis *Uttam R. Kondekar, Laxman S. Walekar, **Anil H. Gore**, Sung H. Han, Prashant V. Anbhule, Shivajirao R. Patil and Govind B. Kolekar** ***Anal. Methods*, 7 (2015) 2547-2553 *(I.F. = 1.89)*** (33) Comparative Spectroscopic Studies on Binding Interaction of Theophylline with Human Hemoglobin: Mechanistic and Conformational Investigations *Minakshi V. Patil, **Anil H. Gore**, Sang H. Lee, Prashant V. Anbhule, Shivajirao R. Patil and Govind B. Kolekar** ***The International Journal Of Science & Technoledge,* 2 (2014) 202 *(I.F. = 1.00)*** (34) Trouble-Free Multicomponent Method for Combinatorial Synthesis of 2-Amino-4-phenyl-5-H-indeno[1,2-d]pyrimidine-5-one and Their Screening against Cancer Cell Lines *Ajinkya A. Patravale , **Anil H. Gore** , Dipti R Patil , Govind B. Kolekar , Madhukar B. Deshmukh and Prashant V. Anbhule** ***Ind. Eng. Chem. Res.,* 53 (2014) 16568-16578 *(I.F. = 2.10)*** (35) Ultrasensitive, Highly Selective and Naked Eye Colorimetric Recognition of D-Penicillamine in Aqueous Media by CTAB Capped AgNPs as a Nanosensor: Applications to Pharmaceutical and Biomedical Analysis *Laxman S. Walekar, Uttam R. Kondekar, **Anil H. Gore**, Samadhan P. Pawar, V. Sudarsan, Prashant V. Anbhule, Shivajirao R. Patil and Govind B. Kolekar** ***RSC Adv.,* 4 (2014) 58481-58488 *(I.F. = 3.84)*** (36) A Novel FRET Probe for Selective and Sensitive Determination of Vitamin B_{12} by Functionalized CdS QDs in Aqueous Media: Applications to Pharmaceutical and Biomedical Analysis ***Anil H. Gore**, Meghanath B. Kale, Prashant V. Anbhule, Shivajirao R. Patil and Govind B. Kolekar** ***RSC Adv.*, 4 (2014) 683-692 *(I.F. = 3.84)*** (37) Fluorescence Quenching Studies of CTAB Stabilized Perylene Nanoparticles for the Determination of Cr(VI) from Environmental Samples: Spectroscopic Approach *Dattaray K. Dalavi, Dhanaji P. Bhopate, A. S. Bagawan, **Anil H. Gore**, Netaji K. Desai, Avinash A. Kamble, Prasad G. Mahajan, Govind B. Kolekar and Shivajirao R. Patil ** ***Anal. Methods,* 6 (2014) 6948-6955 *(I.F. = 1.89)*** (38) Development and Optimization of Multivariate RP-UPLC Method for

Determination of Telmisartan and its Related Substances by Applying a Two Level Factorial Design Approach: Application to Quality Control Study.
*Nitin H. Dhekale, K. Hima Bindu, K. Y. Kiran Kumar, **Anil H. Gore**, Prashant V. Anbhule and Govind B. Kolekar**
Anal. Methods,* 6 (2014) 5168-5182 *(I.F. = 1.89)

(39) A Novel Pyrimidine Derivative as a Fluorescent Chemosensor for Highly Selective Detection of Aluminum (III) in Aqueous Media
*Vishwas D. Suryawanshi, **Anil H. Gore**, Pravin R. Dongare, Prashant V. Anbhule, Shivajirao R. Patil, Govind B. Kolekar**
Spectrochim. Acta Part A,* 114 (2013) 681-686 *(I.F. = 2.10)

(40) Solvatochromic Fluorescence Behaviour of 2-Amino-6-Hydroxy-4-(3,4-Dimethoxyphenyl)-Pyrimidine-5-Carbonitrile: A Sensitive Fluorescent Probe for Detection of pH and Water Composition in Binary Aqueous Solutions.
*Vishwas D. Suryawanshi, **Anil H. Gore**, Laxman S. Walekar, Prashant V. Anbhule, Shivajirao R. Patil, Govind B. Kolekar**
J. Mol. Liquids,* 184 (2013) 4-9 *(I.F. = 2.50)

(41) A Spectral Deciphering the Perturbation of Model Transporter Protein (HSA) by Antibacterial Pyrimidine Derivative: Pharmacokinetic and Biophysical Insight
*Vishwas D. Suryawanshi, Prashant V. Anbhule, **Anil H. Gore**, Shivajirao R. Patil and Govind B. Kolekar**
J. Photochem. Photobiol., B*, 118 (2013) 1-8 *(I.F. = 2.10)

(42) A Novel Colorimetric Probe for Highly Selective Recognition of Hg^{2+} Ions in Aqueous Media Based on Inducing Aggregation of CPB Capped AgNPs: Accelerating the Direct Detection for Environmental Analysis
*Laxman S. Walekar, **Anil H. Gore**, Prashant V. Anbhule, V. Sudarsan, Shivajirao R. Patil and Govind B. Kolekar**
Anal. Methods*, 5 (2013) 5501-5507 *(I.F. = 1.89)

(43) Direct Detection of Sulfide Ions [S^{2-}] in Aqueous Media Based on Fluorescence Quenching of Functionalized CdS QDs at Trace Levels: Analytical Applications to Environmental Analysis
***Anil H. Gore**, Sandip B. Vatre, Prashant V. Anbhule, Sung-Hwan Han, Shivajirao R. Patil and Govind B. Kolekar**
Analyst*, 138 (2013) 1329-1333 *(I.F. = 4.11)

(44) Highly Selective and Sensitive Recognition of Cobalt (II) Ions Directly in Aqueous Solution Using Carboxyl-Functionalized CdS QDs as a Naked Eye Colorimetric Probe: Applications to Environmental Analysis
***Anil H. Gore**, Dattatray B. Gunjal, Mangesh R. Kokate, Vasanthakumaran Sudarsan, Prashant V. Anbhule, Shivajirao R. Patil and Govind B. Kolekar**
ACS Appl. Mater. Interfaces*, 4 (2012) 5217-5226 *(I.F. = 8.0)

(45) Evaluation of Interparticle Interaction between Colloidal Ag Nanoparticles Coated with Trisodium Citrate and Safranine by Using FRET: Spectroscopic and Mechanistic Approach
*Vidya V. Mokashi, **Anil H. Gore**, V. Sudarsan, Madhab C. Rath, Sung H. Han,*

	*Shivajirao R. Patil and Govind B. Kolekar** ***J. Photochem. Photobiol., B*, 113 (2012) 63-69 *(I.F. = 2.96)*** (46) Micellar-Mediated Binding Interaction between Perylene and Dl-Phenylalanine: Insights from Spectroscopic Investigations *Sang Hak Lee, **Anil H. Gore**, Taslima Ferdous, Seikh Mafiz Alam and Govind B. Kolekar** ***J. Mol. Liquids,* 168 (2012) 12-16 *(I.F. = 2.50)*** (47) Spectroscopic Investigation on the Interaction of Pyrimidine Derivative, 2-Amino-6-Hydroxy-4-(3,4-Dimethoxyphenyl)-Pyrimidine-5-Carbonitrile with Human Serum Albumin: Mechanistic and Conformational Study *Vishwas D. Suryawanshi, Prashant V. Anbhule, **Anil H. Gore**, Shivajirao R. Patil and Govind B. Kolekar** ***Ind. Eng. Chem. Res.*, 51 (2012) 95-102 *(I.F. = 2.10)*** (48) A Novel Method for Ranitidine Hydrochloride Determination in Aqueous Solution Based on Fluorescence Quenching of Functionalized CdS QDs through Photoinduced Charge Transfer Process: Spectroscopic Approach ***Anil H. Gore**, Umesh S. Mote, Shahaji S. Tele, Prashant V. Anbhule, Madhab C. Rath, Shivajirao R. Patil and Govind B. Kolekar** ***Analyst*, 136 (2011) 2606-2612 *(I.F. = 4.11)***
Seminar/ Conference	(1) Paper presented (Poster) in, *International Conference on Chemistry, Energy and Environment* (ICCEE-2019, International), YCIS, Satara, 16th-18th Februavay, 2019. (2) Paper presented (Poster) in, *International Conference on Materials & Ennvironmental Science* (ICMES-2018, International), New & Solankur College, Shivaji University, Kolhapur, 7th & 8th December, 2018. (3) Paper presented (Poster) in, *International Conference on Advances in Chemical Sciences* (ICACS-2018, International), Department of Chemistry, Shivaji University, Kolhapur, 1st-3rd February, 2018. (4) Worked as Member of Organising Comitte in, *Recent Development in Chemistry* (National) R.C. Shahu College, Kolhapur, 24th January, 2018. (5) Participated in, *National Conference on Recent Trends in Nanomaterials* (NCRTN-2017, National) Dept. of Naoscience & Technology, Y.C.I.S, Satara, 28th September, 2017. (6) Paper presented (Poster) in, *Challenges and Opportunities Before 21st Century, India* (2016, International) R.C. Shahu College, Kolhapur, 6th & 7th February, 2016. (7) Paper presented (Poster) in, *Recent Trends in Nanomaterial and Their Applications* (RTNA-2015, National) Sangola College, Sangola, Solapur, 23rd & 24th January, 2015. (8) Paper presented (Poster) in, *Current Trends in Chemical & Nanosciences* (CTCNS-2014, National), Department of Chemistry, Shivaji University, Kolhapur, 17th & 18th January, 2014. (9) Paper presented (Poster) in, DAE-BRNS 12th Biennial, *Trombay Symposium on Radiation & Photochemistry* (TSRP-2014, International), BARC, Mumbai,

	6th - 9th January, 2014. (10) Paper presented (Poster) in, *Emerging Horizons in Biochemical Sciences & Nanomaterials* (EHBCSN-2013, International), Shri. Shivaji Mahavidyalaya, Barshi, Solapur, 28th - 30th November, 2013. (11) Paper presented (Poster) in, *Current Research in Chemical Sciences* (CRCS-2013, National) held at Shivaji University, Kolhapur, 22nd & 23rd January, 2013. (12) Paper presented (Oral) in, *National Seminar on Recent Advances in Synthetic Chemistry and Nanomaterials* (RASCN-2012, National), Shivaji University, Kolhapur, 21st & 22nd January, 2012. (13) Paper presented (Poster) in, DAE-BRNS 11th Biennial, *Trombay Symposium on Radiation & Photochemistry* (TSRP-2012, International), BARC, Mumbai, 4th - 7th January, 2012. (14) Poster presented in, *VIth Maharashtra State Inter-University Research Convention* (Avishkar 2011-12), Shivaji University, Kolhapur, 13th - 15th January, 2012. (15) Paper presented (Oral) in, *Professor Ram Chandra Paul International Conference on Recent Trends in Chemistry* (ICETC-2011, International), Panjab University, Chandigarh, 11th & 12th February, 2011. (16) Participated in *National Seminar on Advances in Synthetic Methodologies and New Materials* (ASMNM-2011, National), Shivaji University, Kolhapur, 21st & 22nd January, 2011. (17) Participated in, *State Level Seminar on Recent Advances in Analytical Chemistry*, Abasaheb Marathe Arts and New Commerce, Science College, Rajapur, 8th - 9th October, 2010. (18) Participated in, National Seminar on *Advances in Co-ordination Chemistry*, RCS College, Kolhapur, 17th - 18th August, 2010. (19) Participated in, *National Conference on Luminescence and it's Applications* (NCLA-2010, National) Gandhigram Rural Institute, Gandhigram (Tamil Nadu), 9th - 11th February, 2010. (20) Participated in, *Advanced Synthetic Methodologies and Functional Material* (ASMFM-2009, National), Shivaji University, Kolhapur during 23rd & 24th December, 2009.
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