List of Important Research Articles in the last ten years

1. Sanjayan C. G, **R. Geetha Balakrishna***, Ratiometric probe of PQDs/R6G: Achieving high sensitivity and precision in contaminant detection, ***Sens. Actuators B Chem,*** 397, 134626 **(2023)**
2. Swathi Divakar, Harini G Sampatkumar, Satish S Naik, Shridhar Malladi, Mahesh Padaki, Siddappa A Patil, R Geetha Balakrishna, Graphitic carbon nitride enriched phytochemicals-based photo membranes for perilous chromium (VI) ion removal, ***Sep and Purification Technology***, Volume 334, 125953, **(2024)**
3. Aravind R Nesaragi, Chandan Hunsur Ravikumar, Naveen Kumar Kalagatur, Swati R Hoolageri, KM Mussuvir Pasha, R Geetha Balakrishna, Siddappa A Patil, In vitro and in vivo nanomolar Hg2+ detection in live cells and zebrafish, theoretical studies, ***J. Photochem. Photobiol., A. Chem,*** 445, 115079, **(2023)**
4. Karthikeyarajan Vinothkumar, **R Geetha Balakrishna***, One-pot synthesis of NH2-MIL-101(Fe) and α – Fe2O3 composite as efficient heterojunction for multifunctional photocatalytic membranes: Towards zero waste generation, ***Appl. Cat., B: Environ,*** 340,123199, **(2024)**
5. Altaf Pasha, Patatri Pramanik, Jesna K G, Nishant Dhiman, Hao Zhang, Siraj Sidhik, Faiz Mandani, Sudhir Ranjan, Ahipa TN, Siva Umapathy, Aditya D. Mohite and R **Geetha Balakrishna*,** Cationic and Anionic Vacancy Healing for Suppressed Halide Exchange and Phase Segregation in Perovskite Solar Cells, ***ACS Energy Lett.,*** 8, 3081–3087**(2023)**
6. Bhavya M. Basavaraja, Ramya Prabhu Bantwal, Anjana Tripathi, Gautam Hegde, Neena Susan John, Ranjit Thapa, Gopalkrishna Hegde, **R. Geetha Balakrishna***, Manav Saxena, Ali Altaee, Akshaya K. Samal*, Functionalized Silver Nanocubes for the Detection of Hazardous Analytes through Surface-Enhanced Raman Scattering: Experimental and Computational Studies, ***ACS Sustain. Chem. Eng.*** 11, 29, 10605–10619, **(2023)**
7. Hemanth Kumar Beere, Pranav Kulkarni, Uday Narayan Maiti, **R. Geetha Balakrishna,** Priyam Mukherjee, Hyun Young Jung, Ketaki Samanta and Debasis Ghosh, Realizing Favourable Oxygen Electrocatalytic Activity with Compositionally Complex Metal Molybdates, ***Sustain. Energy Fuels,*** doi.org/10.1039/D3SE00736G, **(2023)**
8. Swathi Divakar, Prajwal Sherugar, KK Nagaraja, R Geetha Balakrishna, Mahesh Padaki, Elevating oil-in-water emulsion separation: Unleashing the power of exfoliated graphitic carbon nitride composite membranes, ***Chem. Eng. J. Adv,*** Volume 17, 100580, **(2024)**
9. Dual Vacancy Passivation in CsPbCl3 Perovskite Nanocrystals: Implications on Optoelectronic Applications, Sumanth Dongre S, E E. Siddharthan, Ranjit Thapa,

Shwetharani R* and **R. Geetha Balakrishna***, ***ACS Appl. Nano Mater***. 6, 14, 13227–13237, **(2023)**

10. Akhil S and **R Geetha Balakrishna***, $CuBiS_2$ Ternary Quantum Dots: Tuning he Deposition Techniques for Enhanced Photovoltaic Performance, ***ACS Appl. Energy Mater.***, 6, 14, 7487–7496 **(2023)**
11. Jesna K George, Altaf Pasha, Sakar Mohan, R Geetha Balakrishna*, Binding of $CsPbBr_3$ Nanocrystals to MOF-5 for the Detection of Cadmium Ions in Aqueous Media, ***ACS Appl. Nano Mater.,*** 2023, 6, 11, 9464–9474, **(2023)**
12. Basir Maleki, Yatish Kalanakoppal Venkatesh, S Siamak Ashraf Talesh, Hossein Esmaeili, Sakar Mohan, **Geetha R Balakrishna***, A novel biomass derived activated carbon mediated AC@ZnO/NiO bifunctional nanocatalyst to produce high-quality biodiesel from dairy industry waste oil: CI engine performance and emission, ***Chem. Eng. J,*** 467, **(2023)**
13. Shwetharani R, Itika Kainthla, Sumanth Dongre, Laveena D'Souza, **R Geetha Balakrishna***, Recent Advances of Ecofriendly 2D Monoelemental Bismuthene as a phptoabsorber for Energy, Catalysis and Biomedical applications, ***J. Mater. Chem. C,*** **11**, 6777-6799, **(2023)**
14. Sanjayan C.G, Chandan Hunsur Ravikumar, **R. Geetha Balakrishna**, Perovskite QD based paper microfluidic device for simultaneous detection of lung cancer biomarkers – Carcinoembryonic antigen and neuron specific enolase, ***Chem. Eng. J.,*** 464, 142581, **(2023)**
15. Sanjay and **R Geetha Balakrishna***, Phase transferred and non-coated, water soluble perovskite quantum dots for biocompatibility and sensing, ***J. Mater. Chem. B,*** 11, 2184-2190, **(2023)**
16. Aravind R Nesaragi, Chandan Hunsur Ravikumar, Naveen Kumar Kalagatur, Swati R Hoolageri, KM Mussuvir Pasha, R Geetha Balakrishna, Siddappa A Patil, In vitro and in vivo nanomolar Hg2+ detection in live cells and zebrafish, theoretical studies, ***J. Photochem. Photobiol., A***, 445, 115079, (2023)
17. Vinothkumar, K., Chandra, L., Mohan, S., **Balakrishna, R. G*.,** Nature-Inspired Photoactive Metal–Organic Framework Nanofiber Filters for Oil–Water Separation: Conserving Successive Flux, Rejection, and Antifouling. ***Ind. Eng. Chem. Res.,*** *62* (2), 1085-1098, **(2023)**
18. Chandra, L., Vinothkumar K., **Balakrishna R. G*.**, MIL-100 (Fe) integrated fibrous polyvinyl alcohol graft on cellulose acetate towards the development of green photo membranes; Application in multi solute rejection, ***J. Environ. Chem. Eng.***, 11, 109851, **(2023)**
19. S Sumanth Dongre, R. Shwetharani, Sk Abdul Moyez, R. Geetha Balakrishna*, In-situ neodymium ion doping into perovskite nanocrystals over ex-situ and its importance in triclosan sensing, ***Mater. Chem. Phy***., 307, 128221, **(2023)**

20. Akhil S and **R Geetha Balakrishna*,** CuBiSe2 Quantum dots as ecofriendly photosensitizersfor solar cells, ***ACS Sustain. Chem. Eng.***, 10, 39, 13176–13184, **(2022)**
21. Sanjayan C G, Jyothi Mannekote Shivanna, Jessica D. Schiffman, Sakar Mohan, Srinivasa Budagumpi, and **R. Geetha Balakrishna***, Aqueous, Non-Polymer-Based Perovskite Quantum Dots for Bioimaging: Conserving Fluorescence and Long-Term Stability via Simple and Robust Synthesis, ***ACS Appl Mater Interfaces***, 14 (34), 38471-38482 **(2022)**
22. S. Akhil and **R Geetha Balakrishna**, AgBiS2 as a photoabsorber for eco-friendlysolar cells, ***J. Mater. Chem. A,***10, 8615-8625, **(2022)**
23. S Akash, Altaf Pasha, **R Geetha Balakrishna**, Dissipation of Charge Accumulation and Suppression of Phase Segregation in Mixed Halide Perovskite Solar Cells via Nanoribbons,***ACS Appl. Energy Mater.,*** 5, 3, 2727–2737, **(2022)**
24. Akhil, S.; Kusuma, J.; **Balakrishna, R. G.**, Green AgBiSe2/AgBiS2 core shell quantum dotsfor stable solar cells by robust SILAR method. ***J. Clean. Prod.,*** 366,132760,**(2022).**
25. Sanjayan C. G, Jyothi M S and R Geetha Balakrishna, Stabilization of CsPbBr3Quantum Dots for Photocatalysis, Imaging and Optical Sensing in Water and Biological Medium; A Review ***J. Mater. Chem. C,*** **10**, 6935-6956, **(2022)**
26. Karthikeyarajan Vinothkumar, Mannekote Shivanna Jyothi, Chandra Lavanya, Mohan Sakar, Suresh Valiyaveettil, **R Geetha Balakrishna***, Strongly co-ordinated MOF-PSF matrix for selective adsorption, separation and photodegradation of dyes, ***Chem. Eng.J,*** 428, 132561, **(2022)**
27. Akhil S, Mithun Prakash Ravikumar, Mohammed Jalalah, Mabkhoot Alsaiari, Farid A Harraz, **R. Geetha Balakrishna**, Manifestation of the enhanced photovoltaic performance in eco-friendly $AgBiS_2$ Solar Cells Using Titanium Oxynitride as the electron transport layer, ***Energy & Fuels***, 36,14393-14402, **(2022)**
28. Pranav Kulkarni, Hyunyoung Jung, Debasis Ghosh, Mohammed Jalalah, Mabkhoot Alsaiari, Farid A Harraz, **R Geetha Balakrishna**, A comprehensive review of pre-lithiation/sodiation additives for Li-ion and Na-ion batteries, ***J. Energy Chem.,*** 76, 479-494, **(2022)**
29. Sumanth Dongre S, Chandan Hunsur Ravikumar, **R. Geetha Balakrishna**, Review on 2D Arsenene and Antimonene: Emerging Materials for Energy, Electronic and Biological Applications, ***Adv. Mater. Interfaces,*** 9, 23, 2200442, **(2022)**
30. S Akash, R Shwetharani, J Kusuma, S Akhil, **R. Geetha Balakrishna**, highly efficient and durable electron transport layer for QDSSC: An integrated approach to address recombination losses, ***J. Alloys Compd.,*** 897, 162740, **(2022)**
31. MS Jyothi, R Shwetharani, Sabarish Radoor, **R Geetha Balakrishna**, 9 - Switchable photovoltaic effect in solar cells: Architecture, features, and future scope, ***Functional Materials Processing for Switchable Device Modulation,*** 161-184, **(2022)**

32. Chandan Hunsur Ravikumar, Nikhil Maroli, Bhakti Kulkarni, Ponmalai Kolandaivel, **R Geetha Balakrishna**, Heterostructure of $CsPbBr_3$-CdS perovskite quantum dots for enhanced stability and charge transfer, ***Mater. Sci. Eng. B:,*** 275, 115513, **(2022)**
33. Jesna K George, Shwetharani Ramu, Vishaka V. Halali, R. Geetha Balakrishna, Inner Filter Effect a Boon in Perovskite Sensing Systems to Achieve Higher Sensitivity Levels, ***ACS Appl Mater Interfaces***, 13, 48, 57264–57273, **(2021)**
34. Altaf Pasha, S. Akhil and R. Geetha Balakrishna, Reliability of $Cs_2M^+M^{3+}X_6$ type perovskites for solar cells: Assessing the Figures of Merit. ***J. Mater. Chem. A, 9,*** 17701-17719, **(2021)**
35. S. Akhil, S. Akash, Altaf Pasha, Bhakti Kulkarni, Mohammed Jalalah, Mabkhoot Alsaiari, Farid A. Harraz, R Geetha Balakrishna, Review on perovskite silicon tandem solar cells: Status and prospects 2T, 3T and 4T for real world conditions, ***Mater. Des.,*** 211, (**2021**) 110138
36. CG Sanjayan, MS Jyothi, M Sakar, R Geetha Balakrishna, Multidentate ligand approach for conjugation of perovskite quantum dots to biomolecules, ***J. Colloid Interface Sci.,*** 758-770, **(2021)**
37. P. Kulkarni, D Ghosh, R Geetha Balakrishna, Recent Progress in 'Water-in-Salt'and Water- in-Salt'-Hybrid Electrolytes Based High Voltage Rechargeable Batteries, ***Sustain. Energy Fuel.,*** **5,** 1619-1654**, (2021)**
38. Rangaswamy Puttaswamy, Radha Nagaraj, Pranav Kulkarni, Hemanth Kumar Beere, Shrish Nath Upadhyay, R Geetha Balakrishna, Nataraj Sanna Kotrappanavar, SrimantaPakhira, Debasis Ghosh, Constructing a High-Performance Aqueous Rechargeable Zinc-Ion Battery Cathode with Self-Assembled Mat-like Packing of Intertwined Ag(I) Pre-Inserted V3 OH 2 O Microbelts with Reduced Graphene Oxide Core, ***ACS Sustain. Chem. Eng.***, 9, 11, 3985–3995, **(2021)**
39. S Akhil, J Kusuma, S Akash, **R Geetha Balakrishna**, Perovskite-like ceramic hole transport material for quantum dot sensitized solar cells, ***Solar Energy,*** 224, 355-360, **(2021)**
40. S Akash, R Shwetharani, J Kusuma, **R Geetha Balakrishna**, Insights and future perspectives for constructing efficient electron pathways in photoanodes of QDSSCs, ***Solar Energy,*** 224, 650-665, **(2021)**
41. K. Sunil, Prajwal Sherugar, Srilatha Rao, C. Lavanya, **Geetha R. Balakrishna**, G. Arthanareeswaran, Mahesh Padaki, Prolific approach for the removal of dyes by an effective interaction with polymer matrix using ultrafiltration membrane, ***J. Environ. Chem. Eng.,*** 9, 6, 106328, **(2021)**
42. C Lavanya, J Kusuma, **R Geetha Balakrishna**, Pyrochlores: oxygen-rich moieties as ceramic fillers in uplifting the antifouling property and dye removal capacity of polymeric membranes, ***Sep. Purif. Technol. .,*** 272, 118946, **(2021)**

43. RDAA Rajapaksha, CAN Fernando, **R. G. Balakrishna**, V Kumar, P See, An insight in photocurrent generation mechanism on Cu_2O quantum dot sensitized Cu/p-CuI photo-electrochemical cell and efficient H_2 generation at Cu/p-CuI/Cu_2O electrolyte interface, ***Mater. Sci. Eng. B:.,*** 270, 115205, **(2021)**
44. Bhakti Kulkarni, V Suvina, **R Geetha Balakrishna**, DH Nagaraju, J Kusuma, 1D GNR-PPy Composite for Remarkably Sensitive Detection of Heavy Metal Ions in Environmental Water, 9, 2, e202101269, ***Chem Electro Chem.,*** **(2021)**
45. Chandan Hunsur Ravikumar, Vishnu Nair, MP Raghavendra, Werasak Surareungchai, Archana Thakur, **R Geetha Balakrishna**, Biomass derived carbon dot decorated ssDNA for a 'turn-on' fluorescent assay for detection of *Staphylococcus aureus* MNase, ***New Journal of Chemistry,*** 45, 5890-5896, **(2021)**
46. Pranav Kulkarni, **R. Geetha Balakrishna**, Debasis Ghosh, R.S. Rawat, Rohit Medwal, B.V.R. Chowdari, Zaghib Karim, M.V. Reddy, Molten salt synthesis of CoFe2O4 and its energy storage properties, ***Mater. Chem. Phys.,*** 257, 123747, **(2021)**
47. Soumya Nagashri Manjunath, M. Sakar, Manmohan Katapadi, **R. Geetha Balakrishna**, Photochemistry of ozone to combat coronavirus: Problems and perspectives, ***Environ. Technol. Innov.,*** 21, 10131, **(2021)**
48. K.V.Yatish, R. Mithun Prakash, C. Ningaraju, M. Sakar, **R. Geetha Balakrishna**, H.S. Lalithamba, Terminalia chebula as a novel green source for the synthesis of copper oxide nanoparticles and as feedstock for biodiesel production and its application on diesel engine, ***Energy.,*** 215, 119165, **(2021)**
49. C Ningaraju, KV Yatish, R Mithun Prakash, M Sakar, **R Geetha Balakrishna**, Gasoline pre-treated feedstock for the production of biodiesel with improved physicochemical properties, ***Biomass Convers. Biorefin.***, 1-10, **(2021)**
50. Soumya Nagashri Manjunath, M Sakar, Manmohan Katapadi, **R Geetha Balakrishna**, Recent case studies on the use of ozone to combat coronavirus: Problems and perspectives, ***Environ. Technol. Innov.***, 21, 101313 **(2021)**
51. Y.N. Teja, M. Sakar, K. Vinothkumar, **R. Geetha Balakrishna**, Large scale synthesis of silane functionalized near-superhydrophobic aluminium hydroxide particles via facile surface grafting technique, ***Mater. Today Commun.,*** 101744, **(2021)**
52. R. Shwetharani, Samadhan Kapse, Ranjit Thapa, D. H. Nagaraju and R. Geetha Balakrishna,Dendritic ferroselite (FeSe2) with 2D carbon-based nanosheets of rGO and g- C3N4 as efficient catalysts for electrochemical hydrogen evolution, ***ACS Appl. Energy Mater.,***3**,** 12, 12682–12691, **(2020)**
53. Halali V. Vishaka, George K. Jesna, Pasha Altaf, K. Sarina and Balakrishna R. Geetha, Latticeconstriction and trapped excitons: a structure–property relationship unveiled in CsPbBr3 perovskite QDs, ***J. Mater. Chem. C,*** 8, 17090-17098, **(2020)**

54. Christina MacLaughlin, Prashant V. Kamat, and Constance M. Biegel, Women Scientists at the Forefront of Energy Research: A Virtual Issue, ***ACS Energy Lett.*** *, 5* (1), 282-289, **(2020)**
55. Kusuma and R Geetha Balakrishna, Ceramic grains: Highly promising hole transport material for solid state QDSSCs, ***Sol. Energy Mater Sol. Cells.,*** 10.1016/j.solmat.2020.110445, **(2020)**
56. Shwetharani R. Halali, V. Vishaka, Kusuma J, R. Geetha Balakrishna, Green to blue light emitting CsPbBr3 perovskite by ligand exchange and its encapsulation by TiO2 for tandem effect in photovoltaic applications, ***ACS Appl. Nano Mater.,*** 3, 6, 6089-6098, **(2020)**
57. K. Vinothkumar, V. Suvina, M. Sakar, **R. Geetha Balakrishna**, Fe-based metal organic frameworks for the simultaneous detection of multiple metal ions in aqueous medium by square wave voltammetry method, ***AIP Conf. Proc.,*** 2265, 030172, **(2020)**
58. R. Shwetharani, T. Sushmitha, G.U. Preethi, **Geetha R. Balakrishna**, Amplification of active sites and porosity for the adsorption of QDs via the induction of rare-earth element La into TiO2 for enhanced photovoltaic effects in QDSSCs, ***New J. Chem..,*** 44, 20441-20448, **(2020)**
59. Bhakti Kulkarni, Mabkhoot Alsairi, Jyothi M.S., Kusuma J, Mohammed Jalalah, Farid A. Harraz, **R. Geetha Balakrishna**, Performance of functionalized 1T-MoS2 as composite counter electrode material for QDSSCs and its analogy with 2H-MoS2, ***Mater. Res. Bull..,*** 134, 111096, **(2020)**
60. K.V. Yatish, H.S. Lalithamba, M. Sakar, **Geetha R. Balakrishna**, B.R. Omkaresh, S.B. Arun, Parametric studies on the storage stability and aging effect of biodiesel treated with Eucalyptus oil as a cost-effective green-antioxidant additive, ***Int. J. Energy Res.,*** 44, 11711-11724, **(2020)**
61. Jesna George K, Vishaka Halali, Sanjayan C.G., V. Suvina, M. Sakar, **R. Geetha Balakrishna**, Perovskite nanomaterials as optical and electrochemical sensors, ***Inorg. Chem. Front.,*** 7, 2702-2725, **(2020)**
62. Thangavelu Kokulnathan, Tzyy-Jiann Wang, Elumalai Ashok Kumar, V. Suvina, **R. Geetha Balakrishna**, Development of an electrochemical platform based on nanoplate-like zirconium phosphate for the detection of furazolidone, ***ACS Appl. Nano Mater.,*** 3, 5, 4522-4529, **(2020)**
63. R. Shwetharani, Vignesh Nayak, M.S. Jyothi, **R. Geetha Balakrishna**, Review on recent advances of core-shell structured lead halide perovskites quantum dots, ***J. Alloys Compd.,*** 834, 155246, **(2020)**
64. J. Kusuma, S. Akash, **R. Geetha Balakrishna**, Transition metal nanohybrid as efficient and stable counter electrode for heterostructure quantum dot sensitized solar cells: A trial, ***Sol. Energy,*** 201, 674-681, **(2020)**

65. Vishaka V. Halali, R. Shwetha Rani, **R. Geetha Balakrishna**, Srinivasa Budagumpi, Ultra-trace level chemosensing of uranyl ions; scuffle between electron and energy transfer from perovskite quantum dots to adsorbed uranyl ions, ***Microchem. J.,*** 156, 104808, **(2020)**
66. V. Suvina, Thangavelu Kokulnathan, Tzyy-Jiann Wang, **R. Geetha Balakrishna**, Lanthanum cobaltite supported on graphene nanosheets for non-enzymatic electrochemical determination of catechol, ***Microchimica Acta,*** 187, 1-7, **(2020)**
67. Vishaka V. Halali, **R. Geetha Balakrishna,** An expeditious method for the ultra-level chemosensing of uranyl ions, ***Anal. Methods .,*** 12, 1070-1076, **(2020)**
68. Vignesh Nayak, Khantong Soontarapa, **R. Geetha Balakrishna**, Mahesh Padaki, V. Yu zadorozhnyy, S.D. Kaloshkin, Influence of TiO_2 charge and BSA-metal ion complexation on retention of Cr (VI) in ultrafiltration process, ***J. Alloys Compd.,*** 832, 153986, **(2020)**
69. Chandan Hunsur Ravikumar, R. Shwetharani, **R. Geetha Balakrishna**, Surface modified glass substrate for sensing *E. coli* using highly stable and luminescent CdSe/CdS core shell quantum dots, ***J. Photochem. Photobiol. B, Biol.,*** 204, 111799, **(2020)**
70. Vignesh Nayak, Jyothi M. S, **R. Geetha Balakrishna**, Mahesh Padaki, V. Yu Zadorozhnyy, S.D. Kaloshkin, 4-aminophenyl sulfone (APS) as novel monomer in fabricating paper based TFC composite for forward osmosis: Selective layer optimization, ***J. Environ. Chem. Eng.,*** 8, 103664, **(2020)**
71. V. Suvina, Thangavelu Kokulnathan, Tzyy-Jiann Wang, **R. Geetha Balakrishna**, Unraveling the electrochemical properties of lanthanum cobaltite decorated halloysite nanotube nanocomposite: An advanced electrocatalyst for determination of flutamide in environmental samples, ***Ecotoxicol. Environ. Saf.,*** 190, 110098, **(2020)**
72. Bhavya MB, Sai Rashmi Manippady, Manav Saxena, Neena S John, **R Geetha Balakrishna**, Akshaya K Samal, Gold nanorods as an efficient substrate for the detection and degradation of pesticides, ***Langmuir,*** 36, 26, 7332-7344, **(2020)**
73. R Shwetharani, Sakar Mohan, C. A. N. Fernando, Vassilios Binas and R Geetha Balakrishna, Recent Advances and Strategies Applied to Tailor Energy levels, Active Sites and Electron Mobility in Titania and its Doped/Composite Analogues for Hydrogen Evolutionin Sunlight, ***Catal. Sci. Technol.,*** 9, 12, **(2019)**
74. Pratap Vishnoi, K. Pramoda, Uttam Gupta, Manjeet Chhetri, R. Geetha Balakrishna, C. N. R.Rao, Covalently Linked Heterostructures of Phosphorene with MoS_2/$MoSe_2$ and their Remarkable Hydrogen Evolution Reaction Activity, ***ACS Appl Mater Interfaces,*** 11, 31, 27780-27787, **(2019)**
75. Halali V Vishaka, Manav Saxena, HR Chandan, Anupam Anand Ojha, **R Geetha Balakrishna**, Paper based field deployable sensor for naked eye monitoring of copper

(II) ions; elucidation of binding mechanism by DFT studies, ***Spectrochim. Acta A Mol. Biomol.,*** 223, 117291, **(2019)**

76. MS Jyothi, V Jagadeesha Angadi, TV Kanakalakshmi, Mahesh Padaki, **Balakrishna R Geetha**, Khantong Soontarapa, Magnetic nanoparticles impregnated, cross-linked, porous chitosan microspheres for efficient adsorption of methylene blue from pharmaceutical waste water, ***J Polym Environ***, 27, 2408-2418, **(2019)**
77. KN Brinda, G Achar, JG Małecki, S Budagumpi, DH Nagaraju, V Suvina, **R. Geetha Balakrishna,** Glucose oxidase mimicking half–sandwich nickel (II) complexes of coumarin substituted N–heterocyclic carbenes as novel molecular electrocatalysts forL ultrasensitive and selective determination of glucose, ***Biosens. Bioelectron.,*** 134, 24-28, **(2019)**
78. S Yadav, K Soontarapa, MS Jyothi, M Padaki, **RG Balakrishna**, JY Lai, Supplementing Multi-functional groups to polysulfone membranes using Azadirachta indica leaves powder for effective and highly selective acid recovery, ***J. Hazard. Mater.,*** 369, 1–8, **(2019)**
79. Thangavelu Kokulnathan, V. Suvina, Tzyy-Jiann Wang and **R. Geetha Balakrishna**, Synergistic design of a tin phosphate-entrapped graphene flake nanocomposite as an efficient catalyst for electrochemical determination of the antituberculosis drug isoniazid in biological samples, ***Inorg. Chem. Front.,*** 2019,**6**, 1831-1841, **(2019)**
80. Pranav Kulkarni, Chepurthy Varnika, Beverly Low Ying Tong, Debasis Ghosh, **Geetha Balakrishna**, RS Rawat, S Adams, MV Reddy, Investigating the role of precipitating agents on the electrochemical performance of $MgCO_2O_4$, ***J. Electroanal. Chem.,*** 851, 113403, **(2019)**
81. C Lavanya, **R Geetha Balakrishna**, Naturally derived polysaccharides-modified PSF membranes: A potency in enriching the antifouling nature of membranes, ***Sep. Purif. Technol.,*** 230, 115887, **(2019)**
82. Pranav Kulkarni, Debasis Ghosh, **Geetha Balakrishna**, RS Rawat, MV Reddy, Stefan Adams, Facile high yield synthesis of $MgCo_2O_4$ and investigation of its role as anode material for lithium ion batteries, ***Ceram. Int.,*** 45, 14775-14782, **(2019)**
83. J Kusuma, HR Chandan, **R Geetha Balakrishna**, Conjugated molecular bridges: A new direction to escalate linker assisted QDSSC performance, ***Solar Energy,*** 194, 74-78, **(2019)**
84. TM Subrahmanya, Nagaraj S Naik, Mahesh Padaki, **R Geetha Balakrishna**, MS Jyothi, Sudesh Yadav, Wei-Song Hung, Synthesis of poly (4, 4′-biphenylene sulfonyl succinamide) -polysulfone blend membranes for removal of toxic metal ions from water, ***J. Appl. Polym. Sci.,*** 48254, **(2019)**

85. B Hemavathi, K Jagadish, TN Ahipa, **RG Balakrishna**, Fabrication of TiO2/poly (3-Cyanopyridine-fluorene) hybrid nanocomposite as electron transport layer for dye sensitized solar cell, ***J. Electroanal. Chem.,*** 838, 136-141, **(2019)**
86. B Hemavathi, S Akash, J Kusuma, T Devaiah, R Shwetharani, **R. Geetha Balakrishna**, Ahipa T. N., New 2-methoxy-4, 6-bis (4-(4-nitrostyryl) phenyl) nicotinonitrile: Synthesis, Characterization and dye sensitized solar cell study, ***J. Photochem. Photobiol. A: Chem..,*** 377, 75-79, **(2019)**
87. R Shwetharani, DH Nagaraju, **RG Balakrishna**, V Suvina, Hydrogenase Enzyme like Nano catalysts FeS2 and FeSe2 for Molecular Hydrogen Evolution Reaction, ***Mater. Lett.,*** 248, 39-42, **(2019)**
88. P Kulkarni, D Ghosh, **G Balakrishna**, RS Rawat, S Adams, MV Reddy, Investigation of MnCo2O4/MWCNT composite as anode material for lithium-ion battery, ***Ceram. Int.,*** 45, 10619–10625, **(2019)**
89. M. Sakar, R. Mithun Prakash, Kiran Shinde and **R Geetha Balakrishna**, Revisiting the materials and mechanism of metal oxynitrides for photocatalysis, ***Int. J. Hydrog. Energy,*** 45, 7691-7705, **(2019)**
90. R. Shwetharani, H.R. Chandan, M. Sakar, **Geetha Balakrishna** , KakarlaRaghava Re ddy , Anjanapura V. Raghu, Photocatalytic semiconductor thin films for hydrogen production and environmental applications, ***Int. J. Hydrog. Energy,*** 45, 18289-18308, **(2019)**
91. BJ Rajesha, V Halali Vishaka, **Geetha R Balakrishna**, Mahesh Padaki, NAM Nazri, Effective composite membranes of cellulose acetate for removal of benzophenone-3, ***J. Water Process Eng..***, 30, 100419, **(2019)**
92. K Raghav Reddy, B Hemavathi, **GR Balakrishna**, AV Raghu, S Naveen, MV Shankar, Organic conjugated polymer-based functional nanohybrids: synthesis methods, mechanisms and its applications in electrochemical energy storage supercapacitors and solar cells, Micro and nano technologies, polymer composites with functionalized nanoparticles. ***Elsevier, Amsterdam***, 357-379**, (2019)**
93. B Hemavathi, V Jayadev, Praveen C Ramamurthy, Ranjith Krishna Pai, Narayanan Unni KN, TN Ahipa, Suraj Soman, **R Geetha Balakrishna**, Variation of the donor and acceptor in D–A–π–A based cyanopyridine dyes and its effect on dye sensitized solar cells, ***New J. Chem..***, 43, 39, 15673-15680 **(2019)**
94. VH Vishaka, Manav Saxena, Sachin Latiyan, Shilpee Jain, **R Geetha Balakrishna** , Remarkably selective biocompatible turn-on fluorescent probe for detection of Fe 3+ in human blood samples and cells, ***RSC Adv.***, 9, 47, 27439-27448, **(2019)**
95. M Sakar, **R Geetha Balakrishna**, SK Nataraj, Dibyendu Mondal, International Conference on Green Methods for Separation, Purification and Nanomaterials Synthesis (24-25th April 2018), ***Mater. Today: Proc..***, 9, 491-498, **(2019)**

96. Satyapriya Bhandari, Dibyendu Mondal, S. K. Nataraj, **R. Geetha Balakrishna**, Biomolecules Derived Quantum Dots for Sustainable Optoelectronics, ***Nanoscale Adv.,*** **1**, 913-936, **(2019)**
97. C. Lavanya, R. Geetha Balakrishna, Khantong Soontarapa, Mahesh S. Padaki, Fouling resistant functional blend membrane for removal of organic matter T and heavy metal ions, ***J. Environ. Manage.,*** 232, 372–381, **(2019)**
98. C. Lavanya, Khantong Soontarapa, M.S. Jyothi, **R. Geetha Balakrishna**, Environmental friendly and cost effective Caramel for Congo red removal, high flux, and fouling resistance of Polysulfone membranes, ***Sep. Purif. Technol. .,*** 211, 348-358, **(2019)**
99. Chandan Hunsur Ravikumar, Manjunath Ira Gowda, **R Geetha Balakrishna**, An "OFF–ON" quantum dot–graphene oxide bioprobe for sensitive detection of micrococcal nuclease of Staphylococcus aureus, ***Analyst***, 144, 13, 3999-4005, **(2019)**
100. R Shwetharani, **R Geetha Balakrishna**, One-Pot Synthesis of Flower like FeS2 as Counter Electrode for Quantum Dot Sensitized Solar Cells, ***Mater. Today: Proc..***, 9, 594-598, **(2019)**
101. Kusuma and R Geetha Balakrishna*, Exploration of Graphene Oxide Nanoribbons as Excellent Electron Conducting Network for Third Generation Solar Cells, ***Sol. Energy Mater Sol. Cells ,*** 183, 211-219, **(2018)**
102. R. Geetha Balakrishna, Steven M. Kobosko, and Prashant V. Kamat*, Mixed Halide Perovskite Solar Cells. Consequence of Iodide Treatment on Phase Segregation Recover, ***ACS Energy Lett.,*** 3, 2267 -2272, **(2018)**
103. Kusuma and **Geetha Balakrishna**, A review on electrical characterization techniques performed to study the device performance of quantum dot sensitized solar cells, ***Solar Energy,*** 159, 682-696, **(2018)**
104. Chandan H. R, Jessica Schiffman and **Geetha R. Balakrishna**, Quantum dots as fluorescent probes: synthesis, surface chemistry, energy transfer mechanism and applications, ***Sens. Actuators B Chem.,*** 258, 1191–1214, **(2018)**
105. M.S.Jyothi, Sudesh Yadav, **Geetha Balakrishna**, Effective recovery of acids from egg waste incorporated PSf membranes: A step towards sustainable development, ***J. Membr. Sci.,*** 549, 227-235, **(2018)**
106. Chandan H. R, Vishnu Nair G, Muralikrishna S, Nagaraju D. H. and **R. Geetha Balakrishna**, Nanoflower like structures of $MoSe_2$ and MoS_2 as efficient catalyst for hydrogen evolution, ***Mater. Lett.,*** 220, 163-165, **(2018)**
107. V. Suvina, S. Murali krishna, D. H. Nagaraju, J. S. Melo, **R. Geetha Balakrishna**, "Polypyrrole-Reduced Graphene Oxide Nanocomposite Hydrogels: Promising electrode material for the simultaneous detection of multiple heavy metal ions", ***Mater. Lett.,*** 232 209–212, **(2018)**

108. B. Hemavathi, **R. Geetha Balakrishna** et al., Aggregation induced light harvesting of molecularly engineered D-A-π-A carbazole dyes for dye-sensitized solar cells, ***Solar Energy,*** 174 1085–1096, **(2018)**
109. B. Hemavathi, Arul Varman Kesava, G.K. Chandrashekar, Praveen C. Ramamurthy, Ranjith Krishna Pai, T.N. Ahipa **R. Geetha Balakrishna**, Polycondensation of thiophene-flanked cyanopyridine and carbazole via direct arylation polymerization for solar cell application, ***React. Funct. Polym..,*** 133, 1-8, **(2018)**
110. V.S.Babu, Mahesh Padaki, Laveena D'Souza, Sébastien Deon, **R. Geetha Balakrishna,** A.F.Ismail, Effect of hydraulic coefficient on membrane performance for rejection of emerging contaminants, ***J. Chem. Eng.,*** 2392-2400, 334, **(2018)**
111. Shwetha Rani R, Sakar Mohan, Chandan H R and **Geetha Balakrishna R**, Observation of Simultaneous Photocatalytic Degradation and Hydrogen Evolution on the Lanthanum Modified TiO_2 Nanostructures, ***Mater. Lett.,*** *220*, 133-135, **(2018)**
112. Chandan H. R, Sakar Mohan, Ashesh Mahto, Ravishankar T N, Ramakrishnappa, Sergio Dupont, and **Geetha R Balakrishna**, Observation of oxo-bridged yttrium in TiO_2 nanostructures and their enhanced photocatalytic hydrogen generation under UV/Visible light irradiations, ***Mater. Res. Bull.,*** 104, 212-219, **(2018)**
113. SM Anush, B Vishalakshi, HR Chandan, **BR Geetha**, Heterocyclic modification of chitosan for the adsorption of Cu (II) and Cr (VI) ions, ***Sep Sci Technol .***, 53, 13, 1979-1990, **(2018)**
114. J Kusuma, **R Geetha Balakrishna**, Siddappa Patil, MS Jyothi, HR Chandan, R Shwetharani, Graphene Ribbons Tilting the efficiency scales, ***Curr. Sci.***, 115, 4, 603-603, **(2018)**
115. G Nagaraju, Alamelu K Ramasami, **Geetha R Balakrishna**, Jaitron Dupont, Ionic liquid-assisted hydrothermal synthesis of silver vanadate nanorods, ***Iran J Sci Technol Trans A Sci***, 42, 451-456, **(2018)**
116. Prashant V Kamat, Rebecca Scheidt, **Geetha Balakrishna**, Steven Kobosko, Vikashkumar Iavi, Photocatalytic Aspects of $CsPbBr_3$ Perovskite Nanocrystals, ECS ***Meeting Abstracts;,*** 233, 31 1842-1842 **(2018)**
117. Pranav Kulkarni, S. K. Nataraj, R. Geetha Balakrishna*, D. H. Nagaraju and M. V. Reddy Nanostructured binary and ternary metal sulfi des: synthesis methods and their application in energy conversion and storage devices, ***J. Mater. Chem. A,*** 5 22040, **(2017)**
118. Prashant V Kamat, **Geetha Balakrishna**, Steven Kobosko, Effect of Iodide Treatment on the Photovoltaic Performance of Mixed Halide Perovskite Solar Cells, ***Electrochemical Society Meeting Abstracts,*** 233, 11, 908-908, **(2017)**
119. P. Nithyadharseni, **R Geetha Balakrishna**, B.V.R. Chowdari, M.V. Reddy, etal., Synthesis and Lithium Storage Properties of Zn, Co and Mg doped SnO2 Nano Materials, ***Electrochim. Acta,*** 247, 1, 358, **(2017)**

120. Shwetharani and **Geetha Balakrishna**, La Activated High Surface Area Titania Float for Adsorption of Pb (II) From Aqueous Media, ***New J. Chem..,*** 1, 26, **(2017)**
121. B. Hemavathi, **R Geetha Balakrishna**, T.N. Ahipa, Alcohol soluble cyanopyridine based conjugated donor-acceptor polymers: Synthesis, photophysical and their charge transport behavior, ***Eur. Polym. J.,*** 95, 1–10, **(2017)**
122. M.S. Jyothi, Khantong Soontarapa, Mahesh Padaki, **R. Geetha Balakrishna**, Arun M Isloor, Favourable Influence of mPIAM on PSf Blend Membranes for Ion Rejection, ***Journal of Membrane Science,*** 533, 229, **(2017)**
123. Jyothi M S, **Geetha Balakrishna R**, Mahesh S Padaki, Eco-friendly Membrane Process and Product Development for Complete Elimination of Chromium Toxicity in Wastewater, ***Journal of Hazardous Materials,*** 332, 112-1123, **(2017)**
124. S.Muralikrishna, D.H.Nagaraju, **R. Geetha Balakrishna**, WerasakSurareungchai, T.Ramakrishnappa, Avinash B.Shivanandareddy, Hydrogels of polyaniline with graphene oxide for highly sensitive electrochemical determination of lead ions, ***Analytica Chimica Acta,*** 990, 67-77, **(2017)**
125. Alamelu.K. Ramasami, M. V. Reddy, P. Nithyadharseni, B. V. R. Chowdarib, **Geetha. R. Balakrishna**, Gel-combustion synthesized vanadium pentoxide nanowire clusters for rechargeable lithium batteries, ***J. Alloys Compd.,*** 69, 850, **(2017)**
126. Vignesh Nayak, M.S. Jyothi, **R. Geetha Balakrishna**, Mahesh Padaki, Sebastien Deon, Novel modified poly vinyl chloride blend membranes for removal of heavy metals from mixed ion feed sample, ***J. Hazard. Mater..,*** 331, 289-299, **(2017)**
127. M S Jyothi, **R Geetha Balakrishna**, Mahesh Padaki, Sunlight Active PSf/TiO_2 Hybrid Membrane for Elimination of Chromium, ***J. Photochem. Photobiol. A: Chem.. ,*** 339, 89 – 94, **(2017)**
128. K Manjunatha, TS Koley, V Kandathil, RB Dateer, **G Balakrishna**, Magnetic nanoparticle-tethered Schiff base–palladium (II): Highly active and reusable heterogeneous catalyst for Suzuki–Miyaura cross-coupling and reduction of nitroarenes in aqueous medium at room temperature, ***Appl. Organomet. Chem.,*** 32 (4), e4266, **(2017)**
129. Vignesh Nayak, **R. Geetha Balakrishna**, Mahesh Padaki, Khantong Soontarapa, Zwitterionic ultrafiltration membranes for As (V) rejection, ***Chem. Eng. J..,*** 308, 347–358, **(2017)**
130. JB Rajesha, Alamelu K Ramasami, G Nagaraju, **Geetha R Balakrishna**, Photochemical elimination of Endocrine Disrupting Chemical (EDC) by ZnO nanoparticles, synthesized by gel combustion, ***Water Environ. Res. .,*** 89, 5, 396-405, **(2017)**
131. R. Shwetharani, **R. Geetha Balakrishna**, Efficient algal lipid extraction via photocatalysis and its conversion to biofuel, ***Appl. Energy,*** 168, 364, **(2016)**

132. Laveena P. D'Souza, R. Shwetharani, Vipin Amoli, C.A.N. Fernando, Anil Kumar Sinha, **R. Geetha Balakrishna**, Photoexcitation of Neodymium Doped TiO2 for Improved Performance in Dye - Sensitized Solar Cells, ***Mater. Des. .,*** 104,346, **(2016)**
133. Chandan H. R, M. Venkataramana, Mahaveer D. Kurkuri, **Geetha Balakrishna R**, Simple quantum dot bioprobe/label for sensitive detection of Staphylococcus aureus TNase, ***Sens. Actuators B Chem.,*** 222, 1201–1208, **(2016)**
134. M.S. Jyothi, Vignesh Nayak, Mahesh Padaki , **R. Geetha Balakrishna**, Aminated polysulfone/TiO2 composite membranes for an effective removal of Cr(VI), Khantong Soontarapa ***Chem. Eng. J.. ,*** 283, 1, 1494–1505, **(2016)**
135. Vignesh Nayak, Jyothi M S, **Geetha Balakrishna**, Mahesh Padaki and Arun M Isloor , Synthesis and characterization of novel sulfanilic acid-poly vinyl chloride - polysulfone blend membranes for metal ion rejection, ***RSC Adv.,*** 6 , 25492, **(2016)**
136. Alamelu. K. Ramasami etal and **Geetha. R. Balakrishna**, Synthesis, Exploration of Energy Storage and Electrochemical Sensing Properties of Hematite Nanoparticles, ***J. Alloys Compd.,*** 671, 552–559, **(2016)**
137. T. N. Ravishankar, **Geetha R Balakrishna** and etal, Enhanced photocatalytic hydrogen production from Y2O3/TiO2 nano-composites: A comparative study on hydrothermal synthesis with and without ionic liquid, ***N J of Chem,*** 40 (4), 3578-3587, **(2016)**
138. Swetharani and **Geetha R Balakrishna**, Photo-Active Float for Field Water Disinfection, ***Photochem. Photobiol. Sci. .,*** 15 (3), 447, **(2016)**
139. Nithyadharseni, P., Reddy, M. V., Ozoemena, K. I., **Balakrishna, R. G**., & Chowdari, B. V. R Electrochemical performance of $BasnO_3$ Anode Material for Lithium-ion battery prepared by Molten salt Method, ***J. Elect. Chem Soc.,*** 163, 540, **(2016)**
140. M.S. Jyothi, P. D'Souza Laveena, R. Shwetharani, **Geetha Balakrishna**, Novel hydrothermal method for effective doping of N and F into nano Titania for both energy and environmental applications, Material, ***Res. Bull.,*** 74, 478–484, **(2016)**
141. TN Ravishankar, MO Vaz, S Khan, T Ramakrishnappa, SR Teixeira, **Geetha Balakrishna**, G Nagaraju, J Dupont, Ionic Liquid Assisted Hydrothermal Syntheses of TiO2/CuO nano Composites for Enhanced Photocatalytic Hydrogen Production from Water, ***Chemistry Select,*** 1 (10), 2199-2206, **(2016)**
142. S Muralikrishna, S Cheunkar, B Lertanantawong, T Ramakrishnappa, D.H. Nagaraju, Werasak Surareungchai, **R. Geetha Balakrishna**, K. Ramakrishna Reddy Graphene oxide-Cu (II) composite electrode for non-enzymatic determination of hydrogen peroxide, ***J. Electroanal. Chem.,*** 776, 1, 59–65, **(2016)**
143. VS Babu, MS Jyothi, R Shwetharani, Mahesh Padaki, **R Geetha Balakrishna**, Elimination of an Endocrine Disruptive Chemical by PSf/TiO2 hybrid Membranes via Membrane Rejection and Photocatalytic Oxidation, ***Journal of Applied Membrane Science & Technology***, 19, 1, **(2016)**

144. Mahesh Padaki and **Geetha R. Balakrishna,** B.J. rajesha, H.R. Chandan, K. Sunil, Removal of BP-3 Endocrine Disrupting Chemical (EDC) using cellulose acetate and ZnO nano particles mixed matrix membranes, ***Membr. Water Treat.***,7,6, **(2016)**

145. Nithyadharseni, P., Reddy, M. V., Ozoemena, K. I., **Balakrishna, R. G.,** & Chowdari, B. V. R. Low temperature molten salt synthesis of Y 2 Sn 2 O 7 anode material for lithium-ion batteries. ***Electrochimica Acta,*** 182, 1060-1069, **(2015)**

146. Laveena P. D'Souza, S Muralikrishna, Hunsur R. Chandan, T Ramakrishnappa and **R. Geetha Balakrishna**, Neodymium doped titania as photoanode and graphene oxide–CuS composite as counter electrode material in quantum dot solar cell**,** ***Journal of Materials Research,*** 30, 3241-3251, **(2015)**

147. Alamelu K. Ramasami, M.V. Reddy, **Geetha R. Balakrishna**, Combustion synthesis and characterization of NiO nanoparticles, ***Mater. Sci. Semicond. Process.,*** 40, 194–202, **(2015)**

148. Alamelu K. Ramasami, H. Raja Naika, H. Nagabhushana, T. Ramakrishnappa, **Geetha R Balakrishna**, G. Nagaraju, Tapioca starch: An efficient fuel in gel-combustion synthesis of photocatalytically and anti-microbially active ZnO nanoparticles, ***Mater. Charact.,*** 99, 266–276, **(2015)**

149. Shwetha Rani R, CAN Fernando and **Geetha Balakrishna**, Excellent Hydrogen Evolution by a Multi Approach via Structure - Property Tailoring of Titania**,** ***RSC Adv.,*** 5, 39122-30, **(2015)**

150. Laveena P. D'Souza, Vipin Amoli, Chandan H R, Anil Kumar Sinha, Ranjith Krishna Pai, **R Geetha Balakrishna**, Atomic Force Microscopic Study of Nanoscale Interaction between N719 dye and CdSe Quantum Dot in Hybrid Solar Cells and their Enhanced Open Circuit Potential**,** ***Solar energy,*** 116, 25-36, **(2015)**

151. Vignesh Nayak, M S Jyothi, S. P Mahesh Padaki and **Geetha R Balakrishna**, Ahmad Fauzi Ismail, Preparation and Characterization of Chitosan Thin Films on Mixed-Matrix Membranes for Complete Removal of Chromium, ***Chemistry Open,*** 4, 278 – 287, **(2015)**

152. Siddappa A Patil, Shivaputra A Patil, Renukadevi Patil, Rangappa S Keri, Srinivasa Budagumpi, **Geetha R Balakrishna** & Matthias Tacke, N-heterocyclic carbene metal complexes as bio-organometallic antimicrobial and anticancer drugs, ***Future Med. Chem.,*** 7(10), 1305–1333, **(2015)**

153. M S Jyothi, S. P Mahesh Padaki and **Geetha R Balakrishna**, The Effect of UV Irradiation on PSf/TiO2 Mixed Matrix Membrane for Chromium Rejection, ***Desalination,*** 354, 189-199, **(2014)**

154. Shwetharani, R and **Geetha Balakrishna R**, Comparative study of homogeneous and heterogeneous photo-oxidative treatment on bacterial cell via multianalytical techniques, ***J. Photochem. Photobiol. A: Chem..,*** 295, 11–16, **(2014)**

155. Chandan H. R, Saravanan V, Ranjith Krishna Pai and **Geetha R Balakrishna**, Synergistic Effect of Binary Ligands on Nucleation and Growth /Size Effect of Nanocrystals; Studies on Reusability of the Solvent, ***J. Mater. Res.,*** 29, 14, **(2014)**
156. Shwetharani, R., Jyothi, M.S., Laveena, P.D., **Balakrishna, R.G.** Photoactive Titania Float for Disinfection of water; Evalution of Cell Damage by Bioanalytical Techniques**,** ***Photochem. Photobiol. .,*** 90, (5) 1099–1107, **(2014)**
157. M. S., Jyothi, Padaki, Mahesh S**, Balakrishna, Geetha R**., Pai, Dr. Ranjith Krishna, Synthesis and Design of PSf/TiO2 Composite membranes for Reduction of Chromium (VI); Stability and Reuse of the Product and the Process**,** J. Mater. Res**.,** 29, 14, **(2014)**
158. M.V. Reddy etal, **R Geetha Balakrishna**, B.V.R. Chowdari, Studies on Bare and Mg-doped LiCoO2 as a cathode material for Lithium-ion Batteries, ***Electrochim. Acta,*** 128, 192, **(2014)**
159. Keri, R.S., Budagumpi, S., Pai, R.K., **Balakrishna, R.G**. Chromones as a privileged scaffold in drug discovery: A review, ***Eur. J. Med. Chem.,*** 78, 340-374, **(2014)**
160. K. Suresh Kumar & T. Ramakrishnappa & **R. Geetha Balakrishna** & M. Pandurangappa, A Fluorescent Chemodosimeter for Hg2+ Based on a Spirolactam Ring-Opening Strategyand its Application Towards Mercury Determinationin Aqueous and Cellular Media, 24(1), 67-74, ***J. Lumin.,*** **(2013)**
161. Chandan H R and **Geetha Balakrishna**, Study of Extraction Effiency of solvents on CdSe Quantum dots, ***J. Mater. Res.,*** 28, 21, 3-9, **(2013)**
162. Laveena. P. D'Souza, Sindushree and **R. Geetha Balakrishna**, Bifunctional Titania Float for Metal Ion Reduction and Organics Degradation, via Sunlight, ACS, ***Ind. Eng. Chem. Res.,*** 52, 16162–16168, **(2013)**
163. HR Chandan, **Balakrishna R Geetha**, Study on precipitation efficiency of solvents in postpreparative treatment of nanocrystals, ***J. Mater. Re..,*** 28, 21, 3003-3009, **(2013)**
164. **R Balakrishna**, KS Rajesh, Design and Implementation of AMRP for Multi hop wireless Mobile ad hoc Networks, ***Int J Adv Comput Sci Appl.,*** 4, 4, 1662, **(2013)**
165. Swetha, Maheshwari Minchitha and **Geetha R. Balakrishna**, Elucidation of cell killing mechanism by various biochemical estimations", ***Photochem Photobiol,*** 88,414–422, **(2012)**
166. KU Minchitha and **Geetha R. Balakrishna**, Structural modification and property tailoring in titania for high efficiency in sunlight" ***Mater. Chem. Phys.,*** 136, 720-728, **(2012)**
167. Yongzhi Wu, Rajiv **Balakrishna**, MV Reddy, A Sreekumaran Nair, BVR Chowdari, S Ramakrishna, Functional properties of electrospun NiO/RuO2 composite carbon nanofibers, ***J. Alloys Compd.,*** 517, 69-74, **(2012)**
168. Swetha, and **R. Geetha Balakrishna**, Preparation and Characterization of High Activity Zirconium- Doped Anatase Titania for Solar Photocatalytic Degradation of Ethidium Bromide" ***Chin. J. Cata.l,*** 32: 1–0, **(2011)**

169. TV Shalini, TN Nagaraja, **Balakrishna Geetha**, D Ashok Satpute, Sheshagiri Shwetha, ANTI-BACTERIAL ACTIVITY OF RASAMANIKYA., Int J Res ***Ayurveda Pharm.,*** 2, 5, **(2011)**

170. TN Anitha, **R Balakrishna**, An efficient and scalable content based dynamic load balancing using multiparameters on load aware distributed multi-cluster servers, ***Int. J. Eng. Sci. Technol.***, 3, 8, 6401-6411, **(2011)**

171. Prasanna Kumar Tirupati, Srilakshmi Dasari, KC Ragamala, **Geeta Balakrishna**, Shwetha Seshagiri, Anti-Microbial activity of Talakeshwara Ras, ***Int. J. Ayurveda Res., 2, 1,*** **(2011)**

172. Swetha, Santhosh S. M. and **R. Geetha Balakrishna**, Enhanced Bactericidal Activity of Modified Titania in Sunlight against Pseudomonas aeruginosa, a Water-Borne Pathogen". ***Photochem. Photobiol*****,** 86, 1127-1134, (**2010)**

173. S.M. Santhosh Swetha. S, and **Geetha R. Balakrishna**, Structure and Photocatalytic activity of Ti1-X MX O2 (M = Zr, Co and Mo) Synthesized by Pulverized Solid State Technique" ***Cent. Eur. J. Chem.,*** 8, 453-460, (**2010)**

174. Swetha. S, S.M. Santhosh, and **Geetha R. Balakrishna**, Synthesis and Comparative Study of Nanotitanates over Degussa P-25 in Disinfection of Water, ***Photochem. Photobiol.,*** 86 (3), 628 – 632, (**2010)**

175. SM Santosh, **GR Balakrishna**, Catalysed degradation of indanthrene golden orange RG in sunlight with vanadium-doped TiO2, ***Int. J. Chem. Sci.***, 6, 1752-1771, (**2008)**

176. LG Devi, **RG Balakrishna**, Photocatalytic oxidation of indanthrene blue RS-An anthraquinone vat dye using TiO2 photocatalyst, ***Oxid. Commun.,*** 29, 1, 31-40, (**2006)**

177. **R Geetha Balakrishna**, L Gomathi Devi, A study of photocatalytic oxidation of indanthrene red LGG an anthraquinone vat dye on TiO2, ***Pol. J. Chem.,*** 79, 5, 919-931, (**2005)**

178. L Gomathi Devi, **R Geetha Balakrishna**, Mass spectrometric and IR spectroscopic study of the destruction of environmentally hazardous Indanthrene Red FFB, a textile pollutant, ***Res J Chem Environ.***, 8, 4, 62-72, (**2004)**

179. LG Devi, **RG Balakrishna**, UV-visible spectral study of oxidation of indanthrene red Vat dye by photocatalytic degradation over TiO2 semiconducting particles, ***Oxid. Commun.,*** 27, 3, 571-576, (**2004)**