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Dr. A. Anand Babu Christus Working as an Assistant Professor in the Department of Chemistry at SRM IST, Ramapuram. He received his bachelor's degree (B.Sc.) in Chemistry from Arul Anandar College, Karumathur, affiliated to Madurai Kamaraj University, Madurai in 1995, He continued his Master's degree (M.Sc.) in Applied Chemistry from Thiagarajar college of Engineering, affiliated to Madurai Kamaraj University, Madurai in 1997. He had completed M.Phil in chemistry from Annamalai University, Chithambaram in 2009. He pursued Ph.D. in the field of Environmental chemistry in SRM Institute of Science and Technology Kattankulathur, Chennai, India. He has 11 years of Industrial experience as Technical officer and Assistant manager in MRF Tyres and TVS Sundaram Industries in Chennai, and 16 years of teaching experience in engineering colleges PMR Institute of Technology and SRM Institute of Science and Technology. He has published ten research articles and a patent He attended various national and international conferences

SUBJECT SPECIALIZATION

Environmental Chemistry

RESEARCH INTERESTS

Nanomaterials, Sensors

PUBLICATIONS

1. **Anand Babu Christus, A.,** Ravikumar, A., Panneerselvam, P., Radhakrishnan, K., and Sivanesan, S., "A novel Hg[II] sensor based on Fe₃O₄@ZnO nanocomposite as peroxidase mimics," Appl. Surf. Sci., 449, pp. 669-676, 2018. **Impact factor: 6.707.**

2. Anand Babu Christus, A., Ravikumar, A., Panneerselvam, P., NorhashimahMorad., and Sivanesan, S., "Colorimetric determination of Hg[II] sensor based on magnetic nanocomposite (Fe₃O₄@ZIF-67) acting as peroxidase mimics," J. Photochem. Photobiol A: Chemical. 364, pp. 715-724, 2018. Impact factor: **4.13**

3.**Anand Babu Christus, A**., Ravikumar, A., and Panneerselvam, P., "A novel sensitive and selective colorimetric detection of arsenate in aqueous solution by fenton-like reaction of Fe₃O₄ nanoparticles," Anal. Methods, 10, pp. 4378-4386, 2018. **Impact factor: 2.896**

4. **Anand Babu Christus, A.**, Ravikumar, A., Panneerselvam, P., Marieeswaran, M., and Sivanesan, S., "MoS₂ nanosheets mediated ZnO–g-C₃N₄ nanocomposite as a peroxidase mimics catalytic activity and its application to the colorimetric determination of Hg[II] sensor," RSc Adv., 9, pp.4268-4276, 2019. **Impact factor: 3.245**

5. Anand Babu Christus, A., and Panneerselvam, P., "Enhanced peroxidase mimetic activity of magnetic porous carbon (MPC) utilized in colorimetric sensing of Hg(II) ions in aqueous medium," Chemistry Select, 5 pp.1-9, 2020. Impact factor: 1.7

6. Ravikumar, A., Panneerselvam, P., Radhakrishnan, K., **AnandBabuChristus**, A., and Sivanesan, S., "MoS2nanosheets as an effective fluorescent quencher for successive detection of arsenic ions in aqueous system," Appl. Surf. Sci., 449, pp. 31-38, 2018. **Impact factor: 6.707.**

7. Kavitha .S, **Anand Babu Christus A.**, and Mary Jelastin Kala S., "Colorimetric detection of silver ions in aqueous solutions using thiol functionalized magnetic core-shell fe304@sio2" Rasayan J.Chem. 14(3) pp 1803-1808, 2021. **Impact factor: 1.23**

8. Kavitha .S, Mary Jelastin Kala S and **Anand Babu Christus A.** "Colorimetric detection of Hg(II) sensor based MoS₂ nanosheets acting as peroxidase mimics., Orient. J. Chem., Vol. **37**(3), 2021.

9. Kavitha .S, Mary Jelastin Kala S, Anand Babu Christus A. and Ravikumar, A., "Colorimetric determination of cysteine and copper based on the peroxidase-like activity of Prussian blue nanocubes", RSC. Adv., **11**pp 37162-37170, 2021. **Impact factor: 3 .245**

10. Amutha Arul, Kavitha .S, **Anand Babu Christus A**., Vellappa Jeyaramsurya, Ravikumar.A, Yuvaraj Sivalingam, "Enhanced removal of Pb (II) and Cd (II) ions from aqueous systems using coated magnetic nanoparticles in activated carbon derived from corncob waste", Surfaces and Interfaces., 40 pp 103095, 2023. **Impact factor: 6.13**