

A. Publications in Peer Reviewed Journals

Academic Year: 2021-2022

1. Hind A. AL-Shwaiman , C. Akshhayya , Asad Syed , Ali H. Bahkali , Abdallah M. Elgorban, **Arunava Das**, Rajender S. Varma , S. Sudheer Khan. Fabrication of intimately coupled CeO₂/ZnFe₂O₄ nano-heterojunction for visible-light photocatalysis and bactericidal application. *Material Chemistry & Physics*. Vol. 279 No. (25759) 2022. **IF:4.094.** [SCI] [Elsevier].
<https://doi.org/10.1016/j.matchemphys.2022.125759>
2. S. Kokilavani, Asad Syed, Abdallah M. Elgorban, Ali H. Bahkali, Hind A. AL-Shwaiman, Rajender S. Varma, **Arunava Das**, S. Sudheer Khan Designing Z-scheme AgIO₄ nanorod embedded with Bi₂S₃ nanoflakes for expeditious visible light photodegradation of congo red and rhodamine B. *Chemosphere*. Vol. 294 No. (133755), 2022. **IF:7.086.** [SCI] [Elsevier]
<https://doi.org/10.1016/j.chemosphere.2022.133755>
3. Okla M. K., Janani B., AL-ghamdi A. A., Abdel-Maksoud M. A., Abd Elgawad H., **Arunava Das**, Khan S.S. Facile construction of 3D CdS-Ag₂S nanospheres: a combined study of visible light responsive photocatalysis, antibacterial and anti-biofilm activity. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*. Vol. 632, No. (127729), 2022. **IF: 4.539.** [SCI] [Elsevier]
<https://doi.org/10.1016/j.colsurfa.2021.127729>
4. Kokilavani S., Asad Syed, M. Raaja Rajeshwari, V. Subhiksha, Abdallah M. Elgorban, Ali H. Bahkali, Nouf S. S. Zaghoul, **Arunava Das**, S. Sudheer Khan. Decoration of Ag₂WO₄ on plate-like MnS for mitigating the charge recombination and tuned bandgap for enhanced white light photocatalysis and antibacterial applications. *Journal of Alloys and Compounds*. Vol. 889 No. (161662), 2022. **IF: 5.316.** [SCI] [Elsevier] <https://doi.org/10.1016/j.jallcom.2021.161662>
5. C. Akshhayya, Mohammad K. Okla, Abdullah A.AL-ghamdi, Mostafa A. Abdel-Maksoud, Hamada Abd Elgawad, **Arunava Das**, S. Sudheer Khan. Construction of S-scheme heterojunction CuFe₂O₄/α-MnO₂ with tuned bandgap for enhanced white light harvesting: Insights of photoluminescence, Raman scattering and photocatalysis. *Surfaces and Interfaces*. Vol. 27 No. (101523), 2021. **IF: 4.837.** [SCI] [Elsevier] <https://doi.org/10.1016/j.surfin.2021.101523>.



6. S. Balasurya, Asad Syed, M. Swedha, G. Harini, Abdallah M. Elgorband, Nouf S. S. Zaghloul, **Arunava Das**, S. Sudheer Khan. A novel SPR based Fe@Ag core-shell nanosphere entrapped on starch matrix an optical probe for sensing of Mercury (II) ion: A nanomolar detection, wide pH range and real water sample application. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*. Vol. 263, No. (120204), 2021 **IF: 4.098** [SCI] [Elsevier]. <https://doi.org/10.1016/j.saa.2021.120204>.
7. Janani B., Syed A., Sruthi L., Sivaranjani P.R., Elgorban A.M., Bahkali A.H., Zaghloul N.S. S., Badawy M. M., **Arunava Das**, Khan S. S. Visible light driven photocatalytic activity and efficient antibacterial activity of ZnFe₂O₄ decorated CdO nanohybrid heterostructures synthesized by ultrasonic-assisted method. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*. Vol. 628 No. (127307), 2021 **IF: 4.539** [SCI] [Elsevier]. <https://doi.org/10.1016/j.colsurfa.2021.127307>
8. Kokilavani S., Syed A., Kumar B.H., Elgorban A.M., Bahkali A.H., Ahmed B., **Arunava Das**, Khan S.S. Facile synthesis of MgS/Ag₂MoO₄ nanohybrid heterojunction: Outstanding visible light harvesting for boosted photocatalytic degradation of MB and its anti-microbial applications. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*. Vol. 627 No. (127097), 2021 **IF: 4.539** [SCI] [Elsevier]. <https://doi.org/10.1016/j.colsurfa.2021.127097>
9. B. Janani, Asad Syed, B. Hari Kumar, Abdallah M. Elgorband, Ali H. Bahkali, Bilal Ahmed, **Arunava Das**, S. Sudheer Khan. High performance MnO₂-Al₂O₃ nanocomposite as white light photocatalyst and bactericidal agent: Insights on photoluminescence and intrinsic mechanism. *Optical Materials*. Vol. 120 No. (111438), 2021. **IF: 3.08.** [SCI] [Elsevier] <https://doi.org/10.1016/j.optmat.2021.111438>
10. Sunil B. Kokane, Pragati Misra, Amol D. Kokane, Mrugendra G. Gubya, **Ashish J. Warghane**, Datta Surwase, M. Krishna Reddy, Dilip Kumar Ghosh. Development of a real-time RT-PCR method for the detection of Citrus tristeza virus (CTV) and its implication in studying virus distribution in planta. *3 Biotech*, Vol.11(431), pp.1-12. 2021. **IF: 2.40** [Springer] <https://doi.org/10.1007/s13205-021-02976-5>

Academic Year: 2020-2021

1. Sunil B. Kokane, Amol D. Kokane, Pragati Misra, **Ashish Warghane**, Pranav Kumar, Mrugendra G. Gubyad, Ashwani Kumar Sharma, Kajal Kumar Biswas, Dilip Kumar Ghosh. In-silico characterization and RNA-binding protein based polyclonal antibodies production for detection of citrus tristeza virus. *Molecular and Cellular Probes*. Vol. 54 No. (101654) 2021. **IF: 2.365**. [SCI] [Elsevier] <http://doi.org/10.1016/j.mcp.2020.101654>
2. Gurjar MS, Aggarwal R, **Jain Shekhar**, Sharma S, Singh J, Gupta S, Agarwal S, Saharan MS. Multilocus Sequence Typing and Single Nucleotide Polymorphism Analysis in *Tilletia indica* Isolates Inciting Karnal Bunt of Wheat. *Journal of Fungi* Vol. 7(2), 103. 2020. **IF- 5.816** [Scopus] [MDPI] <https://doi.org/10.3390/jof7020103>
3. **Ganshyam Prajapat**, Shikha Jain, Sandeep Rellegadla, Pankaj Tailor, Akhil Agrawal. Synergistic approach to control reservoir souring in the moderately thermophilic oil fields of western India. *Bioresource Technology Reports*. Vol.14 (100649), 2021. [SCI] [Elsevier] <https://doi.org/10.1016/j.biteb.2021.100649>
4. Himanshu Kumar Bairwa, **Ganshyam Prajapat**, Shikha Jain, Inshad Ali Khan, Lalita Ledwani, Priya Yadav, Akhil Agrawal. Evaluation of UV-B protection efficiency of mycosporine like amino acid extracted from the cyanobacteria *Anabaenopsis* sp. SLCyA isolated from a hypersaline lake. *Bioresource Technology Reports*. Vol. 15, No. (100749), 2021. [SCI] [Elsevier] <https://doi.org/10.1016/j.biteb.2021.100749>
5. Sunil Kokane, Amol Kokane, **Ashish Warghane**, M. Gubyad, Ashwini Kumar Sharma Krishna Reddy, Dilip Kumar Ghosh. A Rapid and Sensitive Reverse Transcription-Loop-Mediated Isothermal Amplification (RT-LAMP) Assay for the Detection of Indian Citrus Ringspot Virus. *Plant Disease*. Vol.105(5), 2021. **IF- 4.438** [Scopus] <https://doi.org/10.1094/PDIS-06-20-1349-RE>
6. Srivastava N, Srivastava M, Alhazmi A, Kausar T, Haque S, Singh R, **Pramod W. Ramteke**, Mishra PK, Tuohy M, Leitge M, Gupta VK. Technological advances for improving fungal cellulase production from fruit wastes for bioenergy application: A review. *Environmental Pollution*. Vol. 287 No. (117370), 2021 **IF:8.071** [SCI] [Elsevier] <https://doi.org/10.1016/j.envpol.2021.117370>

7. **Ashish Warghane**, Tejaswini Petkar, Usha Preeyaa S, Nishi Kumari, Lavanya Ranjan. *In Silico* Characterization of Severe Acute Respiratory Syndrome Coronavirus-2 (SARS-CoV-2) based on the Spike Protein Gene. *Eurasian Journal of Medicine and Oncology*. 5(2) pp.163–180. 2021. [Scopus] <https://doi.org/10.14744/ejmo.2021.52103>

Academic Year: 2019-2020

1. **Ashish Warghane**, Amol Kokane, Sunil Kokane, Manali Motghare, Datta Surwase, Supratik Pal Chodhury, Kajal Kumar Biswas, Dilip Kumar Ghosh. Molecular detection and coat protein gene-based characterization of Citrus tristeza virus prevalent in Sikkim state of India. *Indian Phytopathology* Vol. 73, pp.135–143.2020. [Scopus] [Springer] <http://dx.doi.org/10.1007/s42360-019-00180-3>
2. **Brajogopal Samanta**, Irena Kaczmarek and James M. Ehrman. Auxosporulating in *Biddulphia tridens* (Ehrenberg) Ehrenberg (Mediophyceae, Bacillariophyta). *European Journal of Phycology*. Vol. 55 (3), pp.296-309.2020 **IF: 2.804** [Scopus] [Taylor & Francis]. <https://doi.org/10.1080/09670262.2020.1716077>
3. Jagmohan Singh, Aggarwal R, Gurjar MS, Sharma S, **Shekhar Jain** Saharan MS. Identification and expression analysis of pathogenicity-related genes in *Tilletia indica* inciting Karnal bunt of wheat. *Australasian Plant Pathology*. Vol. 49, pp.393–402.2020 **IF:1.59** [Scopus] [Springer] <https://doi.org/10.1007/s13313-020-00711-x>

Academic Year: 2018-2019

1. **Shekhar Jain**, Anukool Vaishnav, Ajit Varma, D. K. Choudhary. Comparative expression analysis of defence-related genes in *Bacillus*-treated *Glycine max* upon challenge inoculation with selective fungal phytopathogens. *Current Sciences*. Vol. 115(10), pp.1950-1956. 2018. **IF: 1.102** [Scopus] <http://dx.doi.org/10.18520/cs/v115/i10/1950-1956>