著作清單

一、期刊論文(2023~迄今)

代表著作：

1. Kotteeswaran, Sindhuja, and **Mani Govindasamy***. "Picomolar-to-nanomolar detection of the neurotransmitters using chalcogen nanocrystal anchored acid functionalized nanofibers for the portable electrochemical sensing in human serum." Chemical Engineering Journal (2026): 174658. **Chemical Engineering Journal** (2025): 165678, **JR=3/83= 3.61 %, IF=13.2 (通訊作者)**

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1. Sakthivel Nirmal Kumar, Aravindhkumar Krishnamoorthy, Ali Akremi, **Mani Govindasamy*.** "Hybrid MoB integrated reduced graphene oxide composite films for robust and selective electrochemical monitoring of diuron." **COMPOSITES PART B-ENGINEERING**, 311 (2026) 113217, **JR=1/179 = 0.55%, IF=14.2 (通訊作者)**

2. N.K. Sakthivel, R.P. Veerasamy, A. Akremi, T. Alshahrani, **Mani Govindasamy*,** Enhanced electrochemical detection of propyl gallate in foods using MoSe2/g-C3N4 modified electrodes. ***Food Chemistry*,** 493 (2025) 145836, **JR=4/112= 3.57%, IF=9.8 (通訊作者)**

3. GM. Gopika, Arun Selvam, Chih-Yu Kuo, A. Akremi, I. Boukhris, B. Saraswathyamma*, **Mani Govindasamy*,** Nanozyme-integrated CuS@f-CB composite based electrochemical sensor for ultrasensitive detection of L-tryptophan in biological and food matrices. **Biosensors and Bioelectronics**, 290 (2025), 117913, **JR= 3/79= 3.79%, IF=10.5 (通訊作者)**

4. H. Sathya, A.A.A. Hafez, **Mani Govindasamy*,** Pin-Yi Chen*, Tweaking the electrocatalytic efficiency of sonochemically synthesized Bi_2S_3 nanorods through decoration with f-MWCNT: A selective on-site detection of METOL in environmental samples. **Ultrasonics Sonochemistry**, 121 (2025) 107531, **JR=1/41= 2.43%, IF=9.7 (通訊作者)**

5. E. Shanmugasundaram, A. Selvam, C.-Y. Kuo*, A. Ayari-Akkari, A. Akremi, **Mani**

Govindasamy*, Fabrication of $CuFe_2O_4$@ HNT modified GCE electrode material as an effective electrocatalyst for sensitive and selective detection of TBHQ. **Food Chemistry** (2025) 145637, **JR=4/112= 3.57%, IF=9.8 (通訊作者)**

6. A. Selvam, G.M. Gopakumar, C.-Y. Kuo*, K. Yusuf, B. Saraswathyamma, **Mani Govindasamy*,** Design of an ultrasensitive electrochemical sensor using a carbon black/zinc-organic framework nanocomposite for quantifying quercetin in fruits. **Food Chemistry**, 491 (2025) 145222, **JR=4/112= 3.57%, IF=9.8 (通訊作者)**

7. A. Selvam, M.G. Gopika, C.-Y. Kuo*, B. Saraswathyamma, K. Yusuf, **Mani Govindasamy*,** Co-MOF-67/carbon black composite: A novel electrochemical platform for furazolidone detection for food analysis. **Food Chemistry** (2025) 145023, **JR=4/112= 3.57%, IF=9.8 (通訊作者)**

8. R. Yemmi, B.K. Swamy, K.M. Manjunath, K. Yusuf, A.M. Aljuwayid, **Mani Govindasamy*,** Advanced $ZnFe_2O_4$@ f-CNF electrode: A robust electrochemical sensor for Tert-butyl hydroquinone detection in food and edible oil. **Food Chemistry** (2025) 144648, **JR=4/112= 3.57%, IF=9.8 (通訊作者)**

9. D. Senthilkumar, C.-Y. Kuo*, S.A. Aldossari, **Mani Govindasamy*,** Advanced highly precise simultaneous electrochemical detection of toxic azo dyes with Nanoengineered yttrium Iron oxide decorated functionalized carbon nanofibers. **Food Chemistry** (2025) 144607, **JR=4/112= 3.57%, IF=9.8 (通訊作者)**

10. N. Pardhi, W.-C. Cheng, S.-C. Chen*, H. Sun, **Mani Govindasamy*,** Amperometric sensing of prostate cancer biomarker (Sarcosine) using HiPIMS deposited nickel nitride films-decorated zinc oxide nanorod heterostructures. **Applied Surface Science Advances** 27 (2025) 100741, **JR=1/23= 4.34%, IF=8.7 (通訊作者)**

11. S.D, Kuo CY*, Yusuf K, **Mani Govindasamy*,** Synergistic effect of Zr MOF modified functionalized carbon nano fibers for determination of tert-butylhydroquinone in food samples. **Food Chemistry**. 2025 469:142507, **JR=4/112= 3.57%, IF=9.8 (通訊作者)**

12. S. Esakkimuthu, NK. Krishnan, M.K. Mani, S. Thambusamy, Chih-Yu Kuo*, **Mani Govindasamy***, "Synthesis of nitrogen incorporated carbon sphere (Cβ-CD/N-AQ) from supramolecular electroactive inclusion complex (β-cyclodextrin/N-amino anthraquinone) for symmetric supercapacitor application: Experimental and computational investigations." **Chemical Engineering Journal** (2025): 165678, **JR=3/83= 3.61 %, IF=13.2 (通訊作者)**

13. P. Murugesan, S. Kogularasu, Y.-L. Chen, Y.-Y. Lee, G.-P. Chang-Chien, **Mani Govindasamy*,** Electrochemical sensor for detecting roxarsone in animal-derived foods using MXene and silver telluride, **Food Chemistry** 482 (2025) 144168, **JR=4/112= 3.57%, IF=9.8 (通訊作者)**

14. B. Aiswarya, M. Gopika, B. Saraswathyamma, C.-Y. Kuo, M. Jeridi, T. Alshahrani, **Mani Govindasamy***, Dextran-integrated polypyrrole-Cu_2O composite for improved electrochemical quantification of melatonin in biological samples, **International Journal of Biological Macromolecules** (2025) 143247, **JR= 6/94 = 6.38 %, IF=8.5 (通訊作者)**

15. M. Gopika, B. Saraswathyamma*, **Mani Govindasamy*,** $CuSeO_3$@ f-CNFs: A superoxide nanozyme for the selective nanomolar determination of the key cardiovascular biomarker, Glutathione, ***Talanta*** 287 (2025) 127621, **JR=14/111=12.61%, IF=6.1 (通訊作者)**

16. Vignesh, Kondusamy, Annamalai Senthil Kumar, Ayyakannu Arumugam Napoleon, **Mani Govindasamy***, Ag-$La(OH)_3$@Dy_2O_3 hybrid composite modified laser-induced graphene surface for simultaneous electrochemical detection of bisphenol A and tartrazine. ***Applied Surface Science*** 676 (2024) 160901, **JR=3/23=13.04%, IF=6.9 (通訊作者)**

17. S. Murugan, G. Srinivasan, S. Kotteeswaran, W. Jeyaraj, **Mani Govindasamy*,** K. Thangavel*, Green synthesis of Ag_2O/ZnO nanocomposite for efficient antibacterial property and tunable electrochemical detection of hydrogen peroxide, ***Journal of Environmental Chemical Engineering*** 13(3) (2025) 116394. **JR=25/175=14.28%, IF=7.2 (通訊作者)**

18. G.M. Gopika, A. Bindu, B. Saraswathyamma, A. A-Akkari, A. Akremi, P.-Y. Chen, **Mani Govindasamy*,** Redefining the monitoring of antioxidants: Interfacial charge redistribution in $SrTiO_3$@GCN nanocomposite for improved electrochemical detection of propyl gallate in food matrices. ***Innovative Food Science & Emerging Technologies*** (2025) 104195, **JR=20/181= 11.04%, IF=6.8 (通訊作者)**

19. Ramadoss, Jagadeesh, Arumugam Sonachalam*, and **Mani Govindasamy*,** Facile synthesis of bi-metal oxide composite on a multilayered $Ti_3C_2T_x$ electrode for enhancing capacitance performance of asymmetric supercapacitor. ***Journal of Energy Storage*** 85 (2024): 111141. **JR=26/182=14.28%, IF=9.8 (通訊作者)**