

Full list of publications

In SCI journals:

- S. Kar, S. Dey, K.B. Chowdhury, S.K. Ghosh, J. Mukhopadhyay, S. Kumar, **S. Ghosh**^{*}, S. Majumdar, *Phyto-assisted synthesis of CuO/industrial waste derived biochar composite for adsorptive removal of doxycycline hydrochloride and recycling of spent biochar as green energy storage device*, Environmental Research (Elsevier) 236 (2023) 116824 (Impact factor: 8.3)
- S. Basak, S. Barma, S. Majumdar, **S. Ghosh**^{*}, *Silane-modified bentonite clay-coated membrane development on ceramic support for oil/water emulsion separation using tuning of hydrophobicity*, Colloids and Surfaces A: Physicochemical and Engineering Aspects (Elsevier) 681 (2024) 132812 (Impact factor: 5.2)
- S. Kar, B. Santra, S. Kumar, **S. Ghosh**^{*}, S. Majumdar, *Sustainable conversion of textile industry cotton waste into P-doped biochar for removal of dyes from textile effluent and valorisation of spent biochar into soil conditioner towards circular economy*, Environmental Pollution (Elsevier) 312 (2022) 120056 (Impact factor: 9.988)
- A. Ray, S. Majumdar, **S. Ghosh**^{*}, *Performance Evaluation of Ceramic Membrane Based Process for Microalgal Biomass Harvesting: Analyzing the Effect of Membrane Pore Sizes, Process Optimization and Fouling Behavior*, Trans. Ind. Ceram. Soc. (T&F), 82(3) (2023) 229-238 (Impact factor: 1.2)
- S. Basak, S. Barma, S. Majumdar, **S. Ghosh**^{*}, *Role of silane grafting in the development of a superhydrophobic clay-alumina composite membrane for separation of water in oil emulsion*, Ceramics International (Elsevier) 48 (2022) 26638–26650 (Impact factor: 5.532)
- S. Banerjee, B. Santra, S. Kar, D. Banerjee, **S. Ghosh**^{*}, S. Majumdar, *Performance assessment of the indigenous ceramic UF membrane in bioreactor process for highly polluted tannery wastewater treatment*, Environmental Science and Pollution Research (Springer) (2022) <https://doi.org/10.1007/s11356-022-19258-z> (Impact factor: 4.223)
- L. Ramrakhiani, **S. Ghosh**^{*}, S. Majumdar, *Heavy metal recovery from electroplating effluent using adsorption by jute waste-derived biochar for soil amendment and plant micro-fertilizer*, Clean Technologies and Environmental Policy (Springer) (2022) <https://doi.org/10.1007/s10098-021-02243-4> (Impact factor: 3.636)
- S. Mukhopadhyay, A. Jana, **S. Ghosh**^{*}, S. Majumdar & T.K.Ghosh, *Arthrospira sp. mediated bioremediation of gray water in ceramic membrane based photobioreactor: process optimization by response surface methodology*, International Journal of Phytoremediation (Taylor & Francis) (2022) <https://doi.org/10.1080/15226514.2022.2027865> (Impact factor: 3.212)
- L. Ramrakhiani, **S. Ghosh**^{*}, A.K. Mandal, S. Majumdar, *Utilization of multi-metal laden spent biosorbent for removal of glyphosate herbicide from aqueous solution and its mechanism elucidation*, Chemical Engineering Journal (Elsevier) 361 (2019) 1063–1077. (Impact factor: 8.35)
- B. Santra, L. Ramrakhiani, S. Kar, **S. Ghosh**^{*}, S. Majumdar, *Ceramic membrane-based ultrafiltration combined with adsorption by waste derived biochar for textile effluent treatment and management of spent biochar*, Journal of Environmental Health

Science and Engineering (Springer) (2020) <https://doi.org/10.1007/s40201-020-00520-w>. (Impact factor: 2.18)

- D. Mukherjee, S. Kar, A. Mandal, **S. Ghosh**^{*}, S. Majumdar, *Immobilization of tannery industrial sludge in ceramic membrane preparation and hydrophobic surface modification for application in atrazine remediation from water*, Journal of the European Ceramic Society (Elsevier) 39 (2019) 3235–3246. (Impact factor: 4.03)
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- D. Mukherjee, A. Dewanjee, **S. Ghosh**^{*}, S. Majumdar, *Development of graphene oxide/chitosan composite membrane on ceramic support for atrazine remediation by MBR process*, Environmental Science and Pollution Research (Springer), DOI: 10.1007/s11356-018-3255-9 (2018).
- L. Ramrakhiani, **S. Ghosh**^{*}, *Metallic nanoparticle synthesised by biological route: safer candidate for diverse applications*, IET Nanobiotechnology The Institution of Engineering and Technology (2018) doi: 10.1049/iet-nbt.2017.0076
- A. Jana, P. Bhattacharya, S. Guha, **S. Ghosh**^{*}, S. Majumdar, *Application of a new ceramic hydrophobic membrane for providing CO₂ in algal photobioreactor during cultivation of Arthrospira sp.*, Algal Research (Elsevier), 27 (2017) 223-234.
- L. Ramrakhiani, A. Halder, A. Majumdar, A.K. Mandal, S. Majumdar, **S. Ghosh**^{*}, *Industrial waste derived biosorbent for toxic metal remediation: Mechanism studies and spent biosorbent management*, Chemical Engineering Journal 308 (2017) 1048–1064.
- A. Jana, **S. Ghosh**^{*}, S. Majumdar, *Energy efficient harvesting of Arthrospira sp. using ceramic membranes: Analyzing the effect of membrane pore size and incorporation of flocculant as fouling control strategy*, Journal of Chemical Technology and Biotechnology (Wiley), (2017), DOI: 10.1002/jctb.5466.
- P. Roy Choudhury, P. Bhattacharya, **S. Ghosh**, S. Majumdar, S. Saha, G.C. Sahoo, *Removal of Cr(VI) by synthesized titania embedded dead yeast nanocomposite: Optimization and modeling by response surface methodology*, Journal of Environmental Chemical Engineering 5 (2017) 214–221.
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- L. Ramrakhiani, **S. Ghosh**^{*}, S. Majumdar, *Surface Modification of Naturally Available Biomass for Enhancement of Heavy Metal Removal Efficiency, Upscaling Prospects, and Management Aspects of Spent Biosorbents: A Review*, Appl Biochem Biotechnol (2016) 180: 41–78.
- P. Banerjee, T. K. Dey, S. Sarkar, S. Swarnakar, A. Mukhopadhyay, **S. Ghosh**^{*}, *Treatment of cosmetic effluent in different configurations of ceramic UF membrane based bioreactor: toxicity evaluation of the untreated and treated wastewater using catfish (Heteropneustes fossilis)*, Chemosphere (Elsevier), 146 (2016) 133-144, <http://dx.doi.org/10.1016/j.chemosphere.2015.12.004>.

- P. Bhattacharya, S. Swarnakar, A. Mukhopadhyay, **S. Ghosh**^{*}, *Exposure of composite tannery effluent on snail, Pila globosa: A comparative assessment of toxic impacts of the untreated and membrane treated effluents*, Ecotoxicology and Environmental Safety (Elsevier) 126 (2016) 45–55, <http://dx.doi.org/10.1016/j.ecoenv.2015.12.021>.
- D. Mukherjee, **S. Ghosh**^{*}, S. Majumdar, K. Annapurna, *Green synthesis of α -Fe₂O₃ nanoparticles for arsenic (V) remediation with a novel aspect for sludge management*, Journal of Environmental Chemical Engineering (Elsevier) Journal of Environmental Chemical Engineering 4 (2016) 639–650, <http://dx.doi.org/10.1016/j.jece.2015.12.010>.
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