HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY

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Department of Chemical Engineering

Faculty Publication Details

S.No	Author's	Title of the Paper	Name of the Journal	URL of the Journal Home Page	Volume No, Issue No & Pages From-To	Year of Publication	IF	ISSN No.	DOI No.
1	AnithaThulasisingh, **SeenuvasanMuthulinga**, Mohan Kumar, NaveenrajRajasekar, ShantanuMohanraj, Carlin Geor Malar	Biosorption of methylene blue dye using a novel chitosan pectinase blend	Environmental Science and Pollution Research	https://link.springer.com/article/10.1007/s11356-022-24996-1	-	2023	5.190	1614-7499	https://doi.org/10.1007/s11356-022-24996-1
2	Carlin Geor Malar· **SeenuvasanMuthulingam**· MohanrajMurugesan · Gayathri Srinivasan· RakeshSankar	A comprehensive review of the importance of thermal activationin the production of carbon dots and the potential for their usein the bioenergy industry	Journal of Thermal Analysis and Calorimetry	https://link.springer.com/article/10.1007/s10973-022-11687-9	148	2022	4.755	1388-6150	https://doi.org/10.1007/s10973-022-11687-9
3	Carlin Geor Malar, **M.Seenuvasan**, MohanrajMurugesan, S.B. Ron Carter and KannaiyanSathish Kumar	Modelling of urea hydrolysis kinetics using genetic algorithm coupled artificial neural networks in urease immobilized magnetite nanoparticles	Chemosphere	https://www.sciencedirect.com/science/article/abs/pii/S0045653522014229	Volume 303, Part 1, 134929	2022	7.086	0045-6535	doi.org/10.1016/j.chemosphere.2022.134929
4	**M. Seenuvasan**, C.G. Malar, R. Carter and S. Praveen	Magnetite embedded biochar as nano-sorbent for effective adsorption of textile dye	Latin American Applied Research	https://laar.plapiqui.edu.ar/OJS/index.php/laar/article/view/645	Vol. 51 No. 3, 185-192	2021	0.70	3270793	https://doi.org/10.52292/j.laar.2021.645
5	HellyChandarana, PonnusamySenthil Kumar, **M. Seenuvasan**, Madhava Anil Kumar	Kinetics, equilibrium and thermodynamic investigations of methylene blue dye removal using Casuarinaeuisetifolia pines	Chemosphere	https://www.sciencedirect.com/science/article/abs/pii/S0045653521019524?via%3Dihub	Volume 285, 131480	2021	7.086	0045-6535	doi.org/10.1016/j.chemosphere.2021.131480

6	G.C.G. Malar, **M. Seenuvasan**, K. Sathish Kumar, M. Anil Kumar, A., R. Parthiban	Review on surface modification of nanocarriers to overcome diffusion limitations: An enzyme immobilization aspect	Biochemical Engineering Journal	https://www.sciencedirect.com/science/article/abs/pii/S1369703X20300899	Volume 158, No.15 , 107574	2020	3.978	1369-703X	doi.org/10.1016/j.bej.2020.107574
7	G.C.G. Malar, **M. Seenuvasan**, K. Sathish Kumar	Improvisation of diffusion coefficient in surface modified magnetite nanoparticles: a novel perspective	Materials Science and Engineering C: Materials for Biological Applications	https://www.sciencedirect.com/science/article/pii/S0928493119309 04X	Volume 103, 109832	2019	7.328	0928-4931	doi.org/10.1016/j.msec.2019.109832
8	Sathya, J.H., Franklin, N., Balaji, N., Selvaraj, S., **Seenuvasan. M**	Utilizing Borassusflabellifer sprout peel sugars by Pseudomonas fluorescence for degradation oftextile effluent	Journal of Environmental Biology	http://www.jeb.co.in/index.php?page=abstract&issue=201907_jul19_spl&number=3	Volume 40.No.4	2019	0.781	0254-8704	doi.org/10.22438/jeb/40/4(SI)/JEB_02
9	Malar, C.G., **Seenuvasan. M**., Sathishkumar, K	Adsorption of nickel ions by surface modified magnetite nanoparticles: Kinetics study	Journal of Environmental Biology	http://www.jeb.co.in/index.php?page=abstract&issue=201907_jul19_spl&number=5	Volume 40.No.4	2019	0.781	0254-8704	doi.org/10.22438/jeb/40/4(SI)/JEB_10
10	Malar, C.G., **Seenuvasan. M**., Sathishkumar, K	Characterization of squid pens extracted beta-chitosan coated magnetite nanoparticles	Journal of Environmental Biology	http://www.jeb.co.in/index.php?page=abstract&issue=201907_jul19_spl&number=2	Volume 40.No.4	2019	0.781	0254-8704	http://doi.org/10.22438/jeb/40/4(SI)/JEB_01
11	G.C.G. Malar, **M. Seenuvasan**, K. Sathish Kumar	Prominent study on surface properties and deficient coefficient of urease conjugated magnetyicnanoparticels	Applied Biochemistry and Biotechnology	https://link.springer.com/article/10.1007/s12010-018-2719-1	Volume 186,Pages. 174–185	2018	2.926	0273-2289	doi.org/10.1007/s12010-018-2719-1
12	M. Dineshkumar, A. Sivalingam, **M. Seenuvasan**	Phytoremediation of heavy metals in battery industrial effluent using *Eichhorniacrassipes*	Desalination and Water Treatment	https://www.deswater.com/DWT_abstracts/vol_122/122_2018_236.pdf	Volume 122, Pages.236–246	2018	1.254	1944-3994	doi: 10.5004/dwt.2018.22821
13	**M. Seenuvasan**, J. R. G. Suganthi, G. Sarojini, G. C. G. Malar, M. E. Priya, M. A. Kumar	Effective utilization of crustacean shells for preparing chitosan composite beads: Applications in ameliorating the biosorption of an endocrine disrupting heavymetal	Desalination and Water Treatment	https://www.deswater.com/DWT_abstracts/vol_121/121_2018_28.pdf	Volume121, Pages.28–35	2018	1.254	1944-3994	doi.org/10.5004/dwt.2018.22194
14	**M. Seenuvasan** , G. Vinodhini, G.C.G. Malar, N. Balaji and K. Sathish Kumar	Magnetic nanoparticles: a versatile carrier for enzymes in bio-processing sectors	IET Nanobiotechnology	https://ietresearch.onlinelibrary.wiley.com/doi/10.1049/iet-nbt.2017.0041	Volume 12. No.5,Pages .535 -548	2017	1.847	1751-8741	doi.org/10.1049/iet-nbt.2017.0041

15	D. Joyce HellenSathya, A.M. Turakhia, M.A. Kumar, N. Balaji, S. Selvanaveen, G. Vinodhini, and **M. Seenuvasan**	Bioethanol from saccharificedlignocellulosic rich Aloe vera rinds using *Saccharomyces cerevisiae* MTCC 4779	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	https://www.tandfonline.com/doi/abs/10.1080/15567036.2017.1328004	Volume 39, Pages. 1347-1352	2017	3.447	1556-7036	doi.org/10.1080/15567036.2017.1328004
16.	M.A. Kumar,S. Poonam, V.V. Kumar, G. Baskar, **M. Seenuvasan**, D. Anuradha and S. Sivanesan	Mineralization of aromatic amines liberated during the degradation of a sulfonated textile colorant using *Klebsiellapneumoniae* strain AHM	Process Biochemistry	https://www.sciencedirect.com/science/article/abs/pii/S1359511316306183	Volume 57, Pages. 181-189	2017	3.757	1359-5113	doi.org/10.1016/j.procbio.2017.03.012
17	**M. Seenuvasan**, S.J. Sanjayini, M.A. Kumar, G. Vinodhini, J.H. Sathya and V.V. Kumar	Cellulase mediated saccharification of lignocellulosic rich pseudostem of Musa cavendish for bio-ethanol production by *Saccharomyces cerevisiae* MTCC 4779	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	https://www.tandfonline.com/doi/abs/10.1080/15567036.2016.1246626?journalCode=ueso20	Volume 39, No.6, Pages 570-575	2017	3.447	1556-7036	doi.org/10.1080/15567036.2016.1246626
18	M.A. Kumar, D.K. Harthy, V.V. Kumar, K.G. Balashri, **M. Seenuvasan**, D. Anuradha and S. Sivanesan	Detoxification of a triphenylmethane textile colorant using acclimated cells of *Bacillus mannanilyticus* strain AVS	Environmental Progress and Sustainable Energy	https://aiche.onlinelibrary.wiley.com/doi/abs/10.1002/ep.12469	Volume36, No. 2, Pages 394-403	2016	2.431	1944-7442	doi.org/10.1002/ep.12469
19.	N. Balaji, K.S. Kumar, G. Vinodhini, **M. Seenuvasan**andM.A. Kumar	Immobilization of laccase onto micro-emulsified magnetic nanoparticles for enhanced degradation of a textile recalcitrant	Journal of Environmental Biology	http://www.jeb.co.in/index.php?page=abstract&issue=201611_nov16_spl&number=13	Volume 37. No.6, Pages.1489-1496	2016	0.781	0254-8704	-
20.	M.A. Kumar, R.Priyadarshini, **M. Seenuvasan**, V.V. Kumar, D. Nilavunesan, D. Anuradha and S. Sivanesan	Biotransformation and detoxification of a greatertinctorial textile colorant using an isolated bacterial strain	Journal of Environmental Biology	http://www.jeb.co.in/index.php?page=abstract&issue=201611_nov16_spl&number=14	Volume. 37, No.6, Pages.1497-1506	2016	0.781	0254-8704	-
21.	M.A. Kumar, V.V. Kumar, R. Ponnusamy, F.P. Daniel, **M. Seenuvasan**, C.D. Anuradha and S. Sivanesan	Concomitant mineralization and detoxification of acid red 88 by an indigenous acclimated mixed culture	Environmental Progress and Sustainable Energy	https://aiche.onlinelibrary.wiley.com/doi/abs/10.1002/ep.12151	Volume.34, No.5, Pages 1455-1466	2015	2.431	1944-7450	doi.org/10.1002/ep.12151
22	**M. Seenuvasan**, K.S. Kumar, G.C.G. Malar, S. Preethi, M.A. Kumar and N. Balaji	Characterization, analysis, and application of fabricated Fe3O4-chitosan-pectinase	Applied Biochemistry and Biotechnology	https://link.springer.com/article/10.1007/s12010-014-0725-5	Volume.172, pages 2706–2719	2014	2.926	0273-2289	doi.org/10.1007/s12010-014-0725-5

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23	**M. Seenuvasan**, P.K. Selvi, M.A. Kumar, J. Iyyappan and K.S. Kumar	Standardization of non-edible Pongamiapinnata oil methyl ester conversion using hydroxyl content and GC-MS analysis	Journal of the Taiwan Institute of Chemical Engineers	https://www.sciencedirect.com/science/article/abs/pii/S1876107013003027	Volume 45, No. 4, Pages 1485-1489	2014	5.876	1876-1070	doi.org/10.1016/j.jtice.2013.11.002
24	**M. Seenuvasan**, G.C.G. Malar, S. Preethi, N. Balaji, J. Iyyappan, M.A. Kumar and K.S. Kumar	Fabrication, characterization and application of pectin degrading Fe3O4-SiO_2nanobiocatalyst	Materials Science and Engineering C: Materials for Biological Applications	https://www.sciencedirect.com/science/article/pii/S0928493113000763	Volume 33, No. 4, Pages 2273-2279	2013	7.328	0928-4931	doi.org/10.1016/j.msec.2013.01.050
25	C.AhmedBasha, R.Saravanathamizhan, P.Manokaran, **T.Kannadasan** and Chang Woo Lee	Photoelectrocatalytic Oxidation of Textile Dye Effluent: Modeling Using Response Surface Methodology	Industrial & Engineering Chemistry Research	https://pubs.acs.org/journal/iecred	51, 7, 2846-2854	2012	3.76	0888-5885	https://pubs.acs.org/doi/abs/10.1021/ie2023977
26	C.AhmedBasha, M. Somasundaram, **T. Kannadasan**, Chang Woo Lee,	Heavy metals removal from copper smelting effluent using electrochemical filterpress cells,	Chemical Engineering Journal	https://www.sciencedirect.com/journal/chemical-engineering-journal	171, 2, 563-571	2011	13.27	1385-8947	https://doi.org/10.1016/j.cej.2011.04.031
27	B.Balamurugan, M.Thirumarimurugan, **T.Kannadasan**	Anaerobic degradation of textile dye bath effluent using *Halomonas* sp.	Bioresource Technology	https://www.sciencedirect.com/journal/bioresource-technology	102, 10, 6365-6369	2011	9.64	0960-8524	https://doi.org/10.1016/j.biortech.2011.03.017
28	Sivakumar V., Senthilkumar K., **Kannadasan T.**,	Prediction of gas holdup in the three-phase fluidized bed: air/Newtonian and non-Newtonian liquid systems	Polish journal of chemical Technology,	https://sciendo.com/journal/PJCT	12, 4, 64-71	2010	1.125	1509-8117	https://doi.org/10.2478/v10026-010-0053-7
29	Prabhakaran.D, Ahmed Basha .C, **Kannadasan .T**, and Aravinthan .P, (2010),	Removal of Hydroquinone from water by Electrocoagulation Using flow cell and optimization by Response Surface Methodology	Journal of Environmental Science and Health, Part A	https://www.tandfonline.com/journals/lesa20	45, 4, 400-412	2010	2.26	1093-4529	https://doi.org/10.1080/10934520903540174
30	D.Prabhakaran, **T.Kannadasan**, C.AhmedBasha,	Treatability Of Resin Effluents By Electrochemical Oxidation Using Batch Recirculation Reactor	International Journal off Environmental Science and Technology	https://www.springer.com/journal/13762	6, 3, 491-498	2009	2.86	1735-1472	http://www.bioline.org.br/pdf?st09054

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37	**G.Sarojini,** P.Kannan, N.Rajamohan, M.Rajasimman.	Dyes removal from water using polymeric nanocomposites: a review	Environmental Chemistry Letters	https://link.springer.com/article/10.1007/s10311-022-01547-1	-	2022	13.6	1610-3653	https://doi.org/10.1007/s10311-022-01547-1
38	**G.Sarojini,** S.Venkateshbabu, N.Rajamohan, M.Rajasimman.	Performance evaluation ofpolymer–marine biomass based bionanocomposite for the adsorptive removal of malachitegreenfromsyntheticwastewater	Environmental Research	https://www.sciencedirect.com/science/article/abs/pii/S001393512101433X	Volume 204 Part B. 112132	2022	6.498	0013-9351	https://doi.org/10.1016/j.envres.2021.112132
39	**G.Sarojini,**S.Venkateshbabu, N.Rajamohan,M.Rajasimman, ArivalaganPugazhendhi.	Application of a polymer-magnetic-algae based nano-composite for the removal of	Environmental Pollution	https://www.sciencedirect.com/science/article/abs/pii/S0269749121019588	Volume 292 Part B, 118376	2022	6.792	0269-7491	https://doi.org/10.1016/j.envpol.2021.1183

		methylene blue – Characterization, parametric and kinetic studies							76
40	P. Murugan, **G. Sarojini,** R. Saravanan and S. Bhuvaneshwari	Removal of lead ions usingOA-Fe_3O_4 magneticnanoparticles-basedpickeringemulsionliquid membrane:process29optimizationus30ingbox–behnkenresponsesurfacemethodology	EnvironmentalTechnology	https://www.tandfonline.com/doi/abs/10.1080/09593330.2021.2008016	-	2021	3.978	1479-487X	https://doi.org/10.1080/09593330.2021.2008016
41	**G.Sarojini,** S.Venkateshbabu, M.Rajasimman	Adsorptive potential of iron oxide basednanocomposite for the sequestration of Congo red from aqueous solution	Chemosphere	https://www.sciencedirect.com/science/article/abs/pii/S0045653521028435	Volume 287, 132371	2022	7.086	0045-6535	https://doi.org/10.1016/j.chemosphere.2021.132371
42	A.MuthuKumara Pandian,M.Rajamehala,M.Vijay PradhapSingh,**G.Sarojini,**N.Rajamohan	Potential risks and approaches to reduce the toxicity of disinfection by-product – A review	Science of The Total Environment	https://www.sciencedirect.com/science/article/abs/pii/S0048969722004156	Volume 822, 153323	2022	10.753	0048-9697	https://doi.org/10.1016/j.scitotenv.2022.153323
43	**G.Sarojini,**S.Venkateshbabu, M.Rajasimman.	Facile synthesis and characterization of polypyrrole - iron oxide – seaweed (PPy-Fe_3O_4-SW) nanocomposite and its exploration for adsorptive removal of Pb(II) from heavy metal bearing water	Chemosphere	https://www.sciencedirect.com/science/article/abs/pii/S0045653521008705	Volume 278, 130400	2021	7.086	0045-6535	doi.org/10.1016/j.msec.2019.109832
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45	**G.Sarojini**, P.Kannan, G.Pravin	Production of biodiesel from jojoba oil using ultra sonicator	Journal of Environmental Biology	http://jeb.co.in/journal_issues/201907_jul19_spl/paper_14.pdf	Volume 40, .No.4 802-806	2019	0.781	0254-8704	http://doi.org/10.22438/jeb/40/4(SI)/JEB_24
46	D. R. Manimaran,**G. Sarojini**, P. Ramalingam	Biosorption of synthetic dyes from textile industrial effluent using waste papaya latex	Journal of Environmental Biology	http://jeb.co.in/journal_issues/201907_jul19_spl/paper_17.pdf	Volume 40.No.4 817-824	2019	0.781	0254-8704	http://doi.org/10.22438/jeb/40/4(SI)/JEB_28

47	M. Seenuvasan, J. R. G. Suganthi, G. **Sarojini, G.** C. G. Malar, M. E. Priya, M. A. Kumar	Effective utilization of crustacean shells for preparing chitosan composite beads: Applications in ameliorating the biosorption of an endocrine disrupting heavymetal	Desalination and Water Treatment	https://www.deswater.com/DWT_abstracts/vol_121/121_2018_28.pdf	Volume121, Pages.28–35	2018	1.254	1944-3994	doi.org/10.5004/dwt.2018.22194
48	Muthusaravanan S, **Balasubramani K**, Suresh R, Ganesh RS, Sivarajasekar N, Arul H, Rambabu K, Bharath G, Sathishkumar VE, Murthy AP, Banat F	Adsorptive removal of noxious atrazine using graphene oxide nanosheets: Insights to process optimization, equilibrium, kinetics, and density functional theory calculations	Environmental Research	https://www.sciencedirect.com/science/article/abs/pii/S0013935121007222	Volume 200, September 2021, 111428	2021	8.431	0013-9351	https://doi.org/10.1016/j.envres.2021.111428
49	Suresh T, Sivarajasekar N, **Balasubramani K**	Enhanced ultrasonic assisted biodiesel production from meat industry waste (pig tallow) using green copper oxide nanocatalyst: Comparison of response surface and neural network modelling	Renewable Energy	https://www.sciencedirect.com/science/article/abs/pii/S0960148120315378	Volume 164, February 2021, Pages 897-907	2021	8.634	0960-1481	https://doi.org/10.1016/j.renene.2020.09.112
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51	Suresh T, Sivarajasekar N, **Balasubramani K**, Ahamad T, Alam M, Naushad M	Process intensification and comparison of bioethanol production from food industry waste (potatoes) by ultrasonic assisted acid hydrolysis and enzymatic hydrolysis: Statistical modelling and optimization	Biomass and Bioenergy	https://www.sciencedirect.com/science/article/abs/pii/S0961953420302865	Volume 142, November 2020, 105752	2020	5.774	0961-9534	https://doi.org/10.1016/j.biombioe.2020.105752
52	**Balasubramani K**, Sivarajasekar N, Naushad M	Effective adsorption of antidiabetic pharmaceutical (metformin) from aqueous medium using graphene oxide nanoparticles: Equilibrium and statistical modelling	Journal of Molecular Liquids	https://www.sciencedirect.com/science/article/abs/pii/S0167732219361069	Volume 301, 1 March 2020, 112426	2020	6.633	0167-7322	https://doi.org/10.1016/j.molliq.2019.112426

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55	Sivarajasekar N, Mohanraj N, **Balasubramani K**, Prakash Maran J, Ganesh Moorthy I, Karthik V, Karthikeyan K	Optimization, equilibrium and kinetic studies on ibuprofen removal onto microwave assisted – activated Aeglemarmeloscorrea fruit shell	Desalination and Water Treatment	https://www.deswater.com/DWT_abstracts/vol_84/84_2017_48.pdf	Volume 84 July 2017, Pages 48–58	2017	1.273	1944-3994	https://doi:10.5004/dwt.2017.21107
56	**M.S.Vivek**, R. Anantharaj, S. Shyam, N. Mayuri	Evaluation of Molecular Behaviour of Priority of Water Pollutants with Ionic Liquids: COSMO based Approach	Industrial & Engineering Chemistry Research	https://pubs.acs.org/doi/10.1021/acs.iecr.8b04089	58 (1), 316-333	2019	3.764	0888-5885	doi.org/10.1021/acs.iecr.8b04089
57	**M.S.Vivek**, R. Anantharaj, J.S. Deepthi, M. Vichitra, A. Chandramohan.	Deep Eutectic Solvents on Extraction of Benzothiophene from Iso-octane: Experiment and COSMO-RS Model.	Journal of Dispersion Science and Technology	https://www.tandfonline.com/doi/abs/10.1080/01932691.2021.1880922	1-11	2021	2.262	0193-2691	doi.org/10.1080/01932691.2021.1880922
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