

Chapter No	Name	Title of chapters	Author(s)	Name of the book, volume and year of publication	Publisher
1	Dr. K. Sathish Kumar	Instrumental methods in surface property analysis of magnetic nanoparticles	G. Carlin Geor Malar and Muthulingam Seenuvasan and Kannaiyan Sathish Kumar and Madhava Anil Kumar	Nanomaterials, 2021	Elsevier
2		Alginate based nanocomposite hydrogels", Plant and Algal hydrogels for drug delivery and regenerative medicine	G.Karthigadevi, Carlin Geor malar, Nibedita Dey, K.Sathish Kumar	Plant and Algal hydrogels for drug delivery and regenerative medicine, 2021	Elsevier Publications
3	Dr.R,Parthiban	Analysis of Liquid Cooling in Microchannels Using Computational Fluid Dynamics	Chitra Boobalan, Sudha Ganesh and Parthiban Rangaswamy	Heat Transfer - Design, Experimentation and Applications, 30.03.2021,	Intech open
4	Dr. P. Senthil Kumar	Modern Treatment Strategies for Marine Pollution	P. Senthil Kumar	1 st Edition and 2021	Elsevier Paperback ISBN: 9780128222799 eBook ISBN: 9780128222805
5		Treatment of dye containing wastewater using agricultural biomass derived magnetic adsorbents	A. Saravanan, P. Senthil Kumar* , P.R. Yaashikaa	Green Materials for Wastewater Treatment pp. 149-170,	Springer Publications ISSN 2213-7114 ISSN 2213-7122 (electronic) ISBN 978-3-030-

				DOI: 10.1007/978-3-030-17724-9_7, 2020	17723-2 ISBN 978-3-030-17724-9 (eBook) DOI: 10.1007/978-3-030-17724-9
6		Biosorption-an elective strategy for wastewater treatment: An eco-friendly approach	A. Saravanan, P. Senthil Kumar* , P.R. Yaashikaa	Biochemical and Environmental Bioprocessing: Challenges and Developments pp. 1-16, 2020	Taylor & Francis, CRC Press, USA ISBN-13: 978-0-367-18739-2 (Hardback)
7		Advancements in Recycled Polyesters	A. Saravanan, P. Senthil Kumar*	Environmental Footprints of Recycled Polyester pp. 31-48, DOI: 10.1007/978-981-13-9578-9_2, 2020	Springer Publications DOI: 10.1007/978-981-13-9578-9
8		Case Studies on Recycled Polyesters and Different Applications	P. Senthil Kumar* , P.R. Yaashikaa	Environmental Footprints of Recycled Polyester pp. 85-99, DOI: 10.1007/978-981-13-9578-9_4, 2020	Springer Publications DOI: 10.1007/978-981-13-9578-9
9		Sources and Operations of Waste Biorefineries	P. Senthil Kumar* , P.R. Yaashikaa	Refining biomass residues for Sustainable	Elsevier Publications ISBN: 978-0-12-818996-2

				Energy and Bioproducts: Technology, advances, life cycle assessment and economics pp. 111-133, 2020 DOI: 10.1016/B978-0-12-818996-2.00005-3	
10		Food Industry Waste Biorefineries	P. Senthil Kumar* , A. Saravanan, R. Jayasree, S. Jeevanantham	Refining biomass residues for Sustainable Energy and Bioproducts: Technology, advances, life cycle assessment and economics pp. 407-426, 2020 DOI: 10.1016/B978-0-12-818996-2.00018-1	Elsevier Publications ISBN: 978-0-12-818996-2
11		Solid-Waste Biorefineries	A. Saravanan , R. Jayasree , T.R. Sundararaman, R.V. Hemavathy , S. Jeevanantham , P. Senthil Kumar , P.R. Yaashikaa	Refining biomass residues for Sustainable Energy and Bioproducts: Technology, advances, life cycle assessment and economics pp. 3-17, 2020	Elsevier Publications ISBN: 978-0-12-818996-2

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12		Test Methods and Identification of Recycled Polyester	P. Senthil Kumar* , S. Suganya	Recycled Polyester pp. 69-88, 2020 DOI: 10.1007/978-981-32-9559-9_4	Springer Publications ISSN 2197-9863 ISSN 2197-9871 (electronic) ISBN 978-981-32-9558-2 ISBN 978-981-32-9559-9 (eBook) DOI: 10.1007/978-981-32-9559-9
13		Properties of recycled polyester	P. Senthil Kumar* , G. Janet Joshiba	Recycled Polyester pp. 1-14, 2020 DOI: 10.1007/978-981-32-9559-9_1	Springer Publications Springer Publications ISSN 2197-9863 ISSN 2197-9871 (electronic) ISBN 978-981-32-9558-2 ISBN 978-981-32-9559-9 (eBook) DOI: 10.1007/978-981-32-9559-9
14		Recent trends and challenges in bioleaching technologies	P. Senthil Kumar* , P.R. Yaashikaa	Biovalorisation of Wastes to Renewable Chemicals and Biofuels pp. 373-388, 2020 DOI: 10.1016/B978-0-12-817951-2.00020-1	Elsevier Publications ISBN: 978-0-12-817951-2

15		Membrane separation technologies for downstream processing	A. Saravanan, P. Senthil Kumar* R. Jayashree, S. Jeevanantham	Biovalorisation of Wastes to Renewable Chemicals and Biofuels pp. 389-400, 2020 DOI: 10.1016/B978-0-12-817951-2.000	Elsevier Publications ISBN: 978-0-12-817951-2
16		Sustainability in Dyeing and Finishing	P. Senthil Kumar* , G. Janet Joshiba	Sustainability in the Textile and Apparel Industries pp. 165-178 2020 DOI: 10.1007/978-3-030-38545-3_7	Springer Publications ISSN 2662-7108 ISSN 2662-7116 (electronic) ISBN 978-3-030-38544-6 ISBN 978-3-030-38545-3 (eBook) DOI: 10.1007/978-3-030-38545-3
17		Sustainability in the Spinning Process	P. Senthil Kumar*, G. Janet Joshiba	Sustainability in the Textile and Apparel Industries pp. 197-207 2020 DOI: 10.1007/978-3-030-38545-3_9	Springer Publications ISSN 2662-7108 ISSN 2662-7116 (electronic) ISBN 978-3-030-38544-6 ISBN 978-3-030-38545-3 (eBook) DOI: 10.1007/978-3-030-38545-3
18		Chemical compliance and regulations in textiles and fashion	G. Prasannamedha, P. Senthil Kumar*	Chemical Management in Textiles and Fashion pp.	Elsevier Publications ISBN: 978-0-12-820494-8 (print) ISBN: 978-0-12-820497-9 (online)

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19		Biosorptive elimination of toxic pollutants from contaminated water	A. Saravanan, P. Senthil Kumar*	Methods for bioremediation of water and wastewater pollution 2020 DOI: 10.1007/978-3-030-48985-4_9	Springer Publications ISSN 2213-7114 ISSN 2213-7122 (electronic) ISBN 978-3-030-48984-7 ISBN 978-3-030-48985-4 (eBook) https://doi.org/10.1007/978-3-030-48985-4
20		Certifications for Sustainability in Footwear and Leather Sectors	P. Senthil Kumar* Femina Carolin C	Sustainability in the Leather & Footwear Sectors pp. 181-198, 2020 https://doi.org/10.1007/978-981-15-6296-9_8	Springer Publications ISSN 2197-9863 ISSN 2197-9871 (electronic) ISBN 978-981-15-6295-2 ISBN 978-981-15-6296-9 (eBook) https://doi.org/10.1007/978-981-15-6296-9
21		Environmental & chemical issues in tanneries & mitigation measures	P. Senthil Kumar* , G. Janet Joshiba	Sustainability in the Leather & Footwear Sectors pp. 1-10, 2020 https://doi.org/10.1007/978-981-15-6296-9_1	Springer Publications ISSN 2197-9863 ISSN 2197-9871 (electronic) ISBN 978-981-15-6295-2 ISBN 978-981-15-6296-9 (eBook) https://doi.org/10.1007/978-981-15-6296-9
22		Valorization of waste algal boom for value-added products	A. Annam Renita*, P. Senthil Kumar	Bioprocess Engineering for Bioremediation: Valorization and	Springer Publications ISBN: 978-3-030-57911-1 (eBook) ISBN: 978-3-030-

				Management Techniques, https://doi.org/10.1007/698_2020_579 , 2020	57910-4 (Hardcover) DOI: 10.1007/978-3-030-57911-1
23		Enzyme Inhibition in Therapeutic Applications	A. Saravanan*, R. Jayasree, T.R. Sundaraman, R.V. Hemavathy, S. Jeevanantham, P. Senthil Kumar , P. R. Yaashikaa	Frontiers in Enzyme Inhibition, vol. 1, pp. 5-16, 2020 DOI: 10.2174/9789811460821120010004	Bentham Science eISBN: 978-981-14-6082-1, 2020 ISBN: 978-981-14-6080-7 ISSN: 2737-4696 (Print) ISSN: 2737-470X (Online) DOI: 10.2174/97898114608211200101
24		Analytical Aspects of Biosensor Based on EnzymeInhibition	A. Saravanan*, S. Jeevanantham, P. Senthil Kumar , P. R. Yaashikaa	Frontiers in Enzyme Inhibition, vol. 1, pp. 17-35, 2020 DOI: 10.2174/9789811460821120010005	Bentham Science eISBN: 978-981-14-6082-1, 2020 ISBN: 978-981-14-6080-7 ISSN: 2737-4696 (Print) ISSN: 2737-470X (Online) DOI: 10.2174/97898114608211200101
25		Efficient techniques for the removal of toxic heavy metals from wastewater	P. Senthil Kumar* Femina Carolin C	New Trends in Removal of Heavy Metals from Industrial Waste Water 2021 https://doi.org/10.1016/B978-0-12-822965-1.00024-6	Elsevier Publications Paperback ISBN: 9780128229651

26		Pesticides pollution and analysis in water	P. Senthil Kumar* , G. Janet Joshiba	Sustainable Agriculture Reviews 48 Pesticide Occurrence, Analysis and Remediation Vol. 2 Analysis pp. 337-349, 2021 https://doi.org/10.1007/978-3-030-54719-6_9	Springer Publications Hardcover ISBN: 978-3-030-54718-9 Softcover ISBN: 978-3-030-54721-9 eBook ISBN: 978-3-030-54719-6 https://doi.org/10.1007/978-3-030-54719-6
27		Carbon Nanocomposites for Wastewater Treatment	R. Sivaranjane, P. Senthil Kumar*	The Future of Effluent Treatment Plants- Biological Treatment Systems pp. 215-234, 2021 https://doi.org/10.1016/B978-0-12-822956-9.00013-1	Elsevier Publications Paperback ISBN: 9780128229569 DOI: 10.1016/C2019-0-04851-0
28		Wastewater biodegradability: selection of a treatment technology	A. Saravanan, P. Senthil Kumar*	The Future of Effluent Treatment Plants- Biological Treatment Systems pp. 235-246, 2021 https://doi.org/10.1016/C2019-0-04851-0	Elsevier Publications Paperback ISBN: 9780128229569 DOI: 10.1016/C2019-0-04851-0

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29	Dr. D. Balaji	Biosorption of Metal Ions Present in Industrial Wastewater	Dhanya Vishnu, Gopinath K.P., Balaji Dhandapani.	Green Adsorbents to Remove Metals, Dyes and Boron from Polluted Water. Environmental Chemistry for a Sustainable World, vol 49. https://doi.org/10.1007/978-3-030-47400-3_9	Springer, Cham. .
30		Removal of heavy metals from mine waters by natural zeolites	Dhanya Vishnu, Balaji Dhandapani, K. Senthil Kumar, G. Balaji, Surianarayanan Mahadevan,	New Trends Remov. Heavy Met. from Ind. Wastewater, 2021: pp. 161–175. doi:10.1016/b978-0-12-822965-1.00008-8.	Elsevier
31		Recent Advances in Organic Acid Production from Microbial Sources by Utilizing Agricultural By-Products as Substrates for Industrial Applications	Dhanya Vishnu, Balaji Dhandapani & Surianarayanan Mahadevan	The Handbook of Environmental Chemistry. DOI: https://doi.org/10.1007/698_2020_577	Springer

32	Dr. B. Chitra	Analysis of Liquid Cooling in Microchannels Using Computational Fluid Dynamics	Chitra Boobalan, Sudha Ganesh and Parthiban Rangaswamy	Heat Transfer - Design, Experimentation and Applications, 30.03.2021,	Intech open
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