

Paper No	Name	Paper Title	Authors	Journal Name, Volume, Page Number, Month & Year	DOI	IF
1.	Dr. K. Sathish Kumar	Modelling of urea hydrolysis kinetics using genetic algorithm coupled artificial neural networks in urease immobilized magnetite nanoparticles	Carlin Geor Malar, Muthulingam Seenuvasan, Mohanraj Murugesan, S.B.Ron Carter, Kannaiyan Sathishkumar	Chemosphere, Vol.303, 1-9, Part 1, September 2022	https://doi.org/10.1016/j.chemosphere.2022.134929	8.943
2.	Dr. R. Parthiban	Processing of marine microalgae biomass via hydrothermal liquefaction for bio-oil production: study on algae cultivation, harvesting, and process parameters	Thangavelu EswaryDevi, Rangasamy Parthiban , Jayaseelan Arun, Kannappan Panchamoorthy Gopinath	Biomass Conversion and Biorefinery November 2022	https://doi.org/10.1007/s13399-022-03446-5	4.050
3.		Effects of using Palm flower Biochar in Mechanical and Water Purification properties of Pervious Concrete	M. Abhinaya, R. Parthiban , N. Sivakumar	Biomass Conversion and Biorefinery December 2022	https://doi.org/10.1007/s13399-022-03606-7	4.103
4.		Thermal, Electrical, Morphological and hydrophobic properties of bio-silica reinforced bio-	Chandramohan Ayyavu, Parthiban Rangasamy, Ponnusamy	Applied Nanoscience	https://doi.org/10.1007/s13204-023-02840-3	3.869

		benzoxazine nanocomposites	Senthil Kumar , Sathish Kumar Kannaiyan, Alagar Muthukaruppan, Dinakaran Kannaiyan	April 2023		
5.	Dr. P. Senthil Kumar	Cost effective and facile low temperature hydrothermal fabrication of Cu ₂ S thin films for hydrogen evolution reaction in seawater splitting	T. Marimuthu, R. Yuvakkumar*, P. Senthil Kumar* , G. Ravi, Xueqing Xu*, Dhayalan Velauthapillai, Dai Viet N. Vo	International Journal of Hydrogen Energy Vol. 47, pp. 30819-30829, August 2022	https://doi.org/10.1016/j.ijhydene.2021.06.153	7.139
6.		Nickel and cobalt co-doped MnCO ₃ nanostructures for water oxidation reaction	S. Swathi, R. Yuvakkumar*, P. Senthil Kumar* , G. Ravi, M. Thambidurai, Cuong Dang, Dhayalan Velauthapillai, Dai-Viet N. Vo	International Journal of Hydrogen Energy Vol. 47(72), pp. 30810-30818, August 2022	https://doi.org/10.1016/j.ijhydene.2021.07.229	7.139
7.		Electrochemical energy storage and conversion applications of CoSn(OH) ₆ materials	M. Isacfranklin, B. Jansi Rani, P. Senthil Kumar , R. Yuvakkumar*, G. Ravi*, A. Manigandan, M. Thambidurai, Cuong Dang*, Dhayalan Velauthapillai	International Journal of Hydrogen Energy Vol. 47(100), pp. 41948-41955, December 2022	https://doi.org/10.1016/j.ijhydene.2021.08.001	7.139

8.	Automated weed detection system in smart farming for developing sustainable agriculture	S.V. Jansi Rani, P. Senthil Kumar* , R. Priyadharsini, S. Jahnavi Srividya, S. Harshana	International Journal of Environmental Science and Technology Vol. 19, pp. 9083-9094, September 2022	https://doi.org/10.1007/s13762-021-03606-6	3.519
9.	Surfactant-assisted tungsten sulfide mesoporous sphere for hydrogen production	S. Swathi, R. Yuvakkumar*, P. Senthil Kumar , G. Ravi, Dhayalan Velauthapillai	International Journal of Hydrogen Energy Vol. 47(100), pp. 41984-41993, December 2022	https://doi.org/10.1016/j.ijhydene.2021.08.233	7.139
10.	A review on bioconversion processes for hydrogen production from agro-industrial residues	A. Saravanan, P. Senthil Kumar* , Nurul Syahirah Mat Aron, S. Jeevanantham, S. Karisma, P.R. Yaashikaa, Kit Wayne Chew, Pau Loke Show*	International Journal of Hydrogen Energy Vol. 47 (88), pp. 37302-37320, October 2022	https://doi.org/10.1016/j.ijhydene.2021.08.055	7.139
11.	Recent advances in carbon nitride-based nanomaterials for hydrogen production and storage	Rekha Pachaiappan*, Saravanan Rajendran**, P. Senthil Kumar , Dai-Viet N. Vo, Tuan K.A.	International Journal of Hydrogen Energy Vol. 47 (88), pp. 37490-37516,	https://doi.org/10.1016/j.ijhydene.2021.09.062	7.139

			Hoang, Lorena Cornejo-Ponce	October 2022		
12.		Pristine and cobalt doped copper sulfide microsphere particles for hydrogen evolution reaction by seawater splitting	T. Marimuthu, R. Yuvakkumar*, P. Senthil Kumar* , G. Ravi, Xueqing Xu*, Gang Xu, Dhayalan Velauthapillai	International Journal of Hydrogen Energy Vol. 47 (88), pp. 37171-37182, October 2022	https://doi.org/10.1016/j.ijhydene.2021.09.172	7.139
13.		Progress in the production of hydrogen energy from food waste: A bibliometric analysis	Adithya Sridhar, Muthamilselvi Ponnuchamy, Ponnusamy Senthil Kumar* , Ashish Kapoor* and Leilei Xiao*	International Journal of Hydrogen Energy Vol. 47(62), pp. 26326-26354, July 2022	https://doi.org/10.1016/j.ijhydene.2021.09.258	7.139
14.		Heterostructured two dimensional materials of MXene and Graphene by hydrothermal method for efficient hydrogen production and HER activities	V. Thirumal, R. Yuvakkumar*, P.Senthil Kumar* , G. Ravi, A. Arun, Ramesh K. Guduru, Dhayalan Velauthapillai	International Journal of Hydrogen Energy Vol. 48(17), pp. 6478-6487, February 2023	https://doi.org/10.1016/j.ijhydene.2021.12.045	7.139
15.		Si@Mxene/Graphene crumbled spherical nanocomposites	V. Thirumal, R. Yuvakkumar*, P.Senthil Kumar* , G. Ravi, Dhayalan Velauthapillai	International Journal of Energy Research Vol. 46(15), pp. 21548-21557, December	https://doi.org/10.1002/er.7743	4.672

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16.		Facile hydrothermal synthesis of MXene@antimony nanoneedle composites for toxic pollutants removal	V. Thirumal, R. Yuvakkumar*, P.Senthil Kumar* , SP. Keerthana, G. Ravi, M. Thambidurai, Cuong Dang, Dhayalan Velauthapillai	Environmental Research Vol. 210, pp. 112904, July 2022	https://doi.org/10.1016/j.envres.2022.112904	8.431
17.		Surfactant induced copper vanadate (β -Cu ₂ V ₂ O ₇ , Cu ₃ V ₂ O ₈) for different textile dyes degradation	SP. Keerthana, R. Yuvakkumar*, P.Senthil Kumar* , G. Ravi, Dhayalan Velauthapillai	Environmental Research Vol. 211, pp. 112964, August 2022	https://doi.org/10.1016/j.envres.2022.112964	8.431
18.		Advancements on sustainable microbial fuel cells and their future prospects: A review	A.K. Priya, C. Subha, P. Senthil Kumar , R. Suresh, Saravanan Rajendran*, Yasser Vasseghian*, Matias Soto-Moscoso	Environmental Research Vol. 210, pp. 112930, July 2022	https://doi.org/10.1016/j.envres.2022.112930	8.431
19.		PEG mediated tetragonal calcium molybdate nanostructures for electrochemical energy conversion applications	S. Swathi, R. Yuvakkumar*, P.Senthil Kumar* , G. Ravi, M. Thambidurai, Cuong Dang,	International Journal of Hydrogen Energy Vol. 47 (62), pp. 26013-	https://doi.org/10.1016/j.ijhydene.2022.03.023	7.139

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20.		Algal biofuels: Technological perspective on cultivation, fuel extraction and engineering genetic pathway for enhancing productivity	P.R. Yaashikaa, M. Keerthana Devi, P. Senthil Kumar	Fuel Vol. 320, pp. 123814, July 2022	https://doi.org/10.1016/j.fuel.2022.123814	8.035
21.		Insights on synthesis and applications of graphene-based materials in wastewater treatment: A review	A. Saravanan, P.Senthil Kumar* , S. Srinivasan, S. Jeevanantham, M. Vishnu, K. Vishal Amith, R. Sruthi, R. Saravanan, Dai-Viet N. Vo	Chemosphere Vol. 298, pp. 134284, July 2022	https://doi.org/10.1016/j.chemosphere.2022.134284	8.943
22.		Novel cobalt doped hafnium oxide/reduced graphene oxide nanosphere composite materials exhibit superior supercapacitor performance and long cyclic stability	P. Nethaji, P. Revathi, P. Senthil Kumar*	Sustainable Energy Technologies and Assessments Vol. 52, pp. 102167, August 2022	https://doi.org/10.1016/j.seta.2022.102167	7.632
23.		Removal of toxic heavy metals using genetically engineered microbes: Molecular tools, risk assessment and management strategies	A. Saravanan, P.Senthil Kumar* , B. Ramesh, S. Srinivasan	Chemosphere Vol. 298, pp. 134341, July 2022	https://doi.org/10.1016/j.chemosphere.2022.134341	8.943
24.		Review on Biopolymers	P. R. Yaashikaa,	Environmenta	https://doi.org/10.101	8.431

		and Composites – Evolving material as adsorbents in removal of environmental pollutants	P.Senthil Kumar* , S. Karishma	I Research Vol. 212, pp. 113114, September 2022	6/j.envres.2022.113114	
25.		Enhanced methane production by granular activated carbon: A review	Leilei Xiao*, Jian Liu, P.Senthil Kumar Meng Zhou, Jiafeng Yu, Eric Lichtfouse	Fuel Vol. 320, pp. 123903, July 2022	https://doi.org/10.1016/j.fuel.2022.123903	8.035
26.		Halides and oxyhalides-based photocatalysts for abatement of organic water contaminants – An overview	R. Suresh Saravanan Rajendran*, P. Senthil Kumar , Tuan K.A. Hoang, Matias Soto-Moscoso	Environmental Research Vol. 212, pp. 113149, September 2022	https://doi.org/10.1016/j.envres.2022.113149	8.431
27.		Advances in the application of immobilized enzyme for the remediation of hazardous pollutant: A review	P.R. Yaashikaa, M. Keerthana Devi, P.Senthil Kumar*	Chemosphere Vol. 299, pp. 134390, July 2022	https://doi.org/10.1016/j.chemosphere.2022.134390	8.943
28.		Development of lab-on-chip biosensor for the detection of toxic heavy metals: A review	V. Karthik, B. Karuna, P.Senthil Kumar* , A. Saravanan, R.V. Hemavathy	Chemosphere Vol. 299, pp. 134427, July 2022	https://doi.org/10.1016/j.chemosphere.2022.134427	8.943
29.		Recent review on electron transport layers in perovskite solar cells	Shini Foo, M. Thambidurai, P.Senthil	International Journal of Energy	https://doi.org/10.1002/er.7958	4.672

			Kumar* , R. Yuvakkumar, Yizhong Huang*, Cuong Dang*	Research Vol. 46(15), pp. 21441-21451, December 2022		
30.		Production of hydrogen and value-added carbon materials by catalytic methane decomposition. A review	Cham Q. Pham, Tan Ji Siang, Ponnusamy Senthil Kumar , Zainal Ahmad, Leilei Xiao, Mahadi B. Bahari, Anh Ngoc T. Cao, Natarajan Rajamohan, Amjad Saleh Qazaq, Amit Kumar, Pau Loke Show, Dai-Viet N. Vo*	Environmental Chemistry Letters Vol. 20, pp. 2339-2359, August 2022	https://doi.org/10.1007/s10311-022-01449-2	13.615
31.		Insights into the role of nanotechnology on the performance of biofuel cells and the production of viable biofuels: A review	Humira Assad, Savas Kaya, P. Senthil Kumar , Dai-Viet N. Vo, Ajit Sharma, Ashish Kumar*	Fuel Vol. 323, pp. 124277, September 2022	https://doi.org/10.1016/j.fuel.2022.124277	8.035
32.		Prediction of bio-heat and mass transportation in radiative MHD Walter-B nanofluid using MANFIS model	S. Gopi Krishna, M. Shanmugapriya*, P. Senthil Kumar	Mathematics and Computers in Simulation Vol. 201, pp. 49-67, November	https://doi.org/10.1016/j.matcom.2022.05.002	3.601

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33.		Microbial pullulan for food, biomedicine, cosmetic and water treatment: a review	Subbulakshmi Muthusamy, Swetha Juliet Anandharaj, Ponnusamy Senthil Kumar* , Yogesan Meganathan, Dai-Viet Nguyen Vo*, Vinoth Kumar Vaidyanathan*, Shanmugaprakash Muthusamy*	Environmental Chemistry Letters Vol. 20, pp. 3199-3234, October 2022	https://doi.org/10.1007/s10311-022-01460-7	13.615
34.		Static and dynamic analysis of sulfamethoxazole using GO/ZnO modified glassy carbon electrode by differential pulse voltammetry and amperometry techniques	P.Senthil Kumar* , B.S. Sreeja, K. Krishna Kumar, G. Padmalaya	Chemosphere Vol. 302, pp. 134926, September 2022	https://doi.org/10.1016/j.chemosphere.2022.134926	8.943
35.		Carbon quantum dots embedded trimetallic oxide: Characterization and photocatalytic degradation of Ofloxacin	Gaurav Sharma*, Amit Kumar, P. Senthil Kumar , Abdullah Alodhay, Zeid A. ALOthman, Pooja Dhiman, Florian J. Stadler	Journal of Water Process Engineering Vol. 48, pp. 102853, August 2022	https://doi.org/10.1016/j.jwpe.2022.102853	7.340
36.		Green synthesis of curcumin-silver nanoparticle and its modified electrode assisted	K. Krishna Kumar, M. Devendiran, P.Senthil	Chemosphere Vol. 303, pp. 134994, September	https://doi.org/10.1016/j.chemosphere.2022.134994	8.943

		amperometric sensor for the determination of paracetamol	Kumar* , R. Suresh Babu, S. Sriman Narayanan*	2022		
37.		Heat Transfer Effect of SiC-GN Hybrid Nanocomposite with Viscoplastic Fluid in Aircraft Jet Engine Hoses	S. Mullai Venthan*, M.S. Nisha, P.Senthil Kumar*, I. Jayakaran Amalraj	Sustainable Energy Technologies and Assessments Vol. 52, pp. 102297, August 2022	https://doi.org/10.1016/j.seta.2022.102297	7.632
38.		Investigation on the Performance of Nanostructure TiO ₂ bi-layer as Photoanode for Dye Sensitized Solar Cell Application	M.Shobanaa, P.Balraju*, P.Senthil Kumar* , N.Muthukumarasa my, R. Yuvakkumar, Dhayalan Velauthapillai	Sustainable Energy Technologies and Assessments Vol. 52, pp. 102295, August 2022	https://doi.org/10.1016/j.seta.2022.102295	7.632
39.		Recent developments on graphene and its derivatives based electrochemical sensors for determinations of food contaminants	R. Suresh, Saravanan Rajendran*, P. Senthil Kumar , Tuan K.A. Hoang, Matias Soto- Moscoso, A.A. Jalil	Food and Chemical Toxicology Vol. 165, pp. 113169, July 2022	https://doi.org/10.1016/j.fct.2022.113169	5.572
40.		Fabrication and characterization of magnetic nanomaterials for the removal of toxic pollutants from water	P. R. Yaashikaa, P.Senthil Kumar*	Chemosphere Vol. 303, pp. 135067, September 2022	https://doi.org/10.1016/j.chemosphere.2022.135067	8.943

		environment: A review				
41.		Sodium alginate/magnetic hydrogel microspheres from sugarcane bagasse for removal of sulfamethoxazole from sewage water: Batch and column Modeling	G. Prasannamedha, P.Senthil Kumar* , S.Shivaani, M.Kokila	Environmental Pollution Vol. 307, pp. 119523, August 2022	https://doi.org/10.1016/j.envpol.2022.119523	9.988
42.		Hydrogen generation from CO ₂ reforming of biomass-derived methanol on Ni/SiO ₂ catalyst	Pham Thi Thuy Phuong, Nguyen Nguyen Phuong, P. Senthil Kumar , Nguyen Phuc Hoang Duy, Quyet Van Le, Le Thi Bao Ngoc, A. A. Jalil, Saravanan Rajendran, Chin Kui Cheng, Thanh-Huong Nguyen, Minh Tuan Nguyen Dinh, Dai-Viet N. Vo	Topics in Catalysis Vol. 66, pp. 41-52, January 2023	https://doi.org/10.1007/s11244-022-01621-6	2.781
43.		A critical and recent developments on adsorption technique for removal of heavy metals from wastewater: A review	Saravanan Rajendran*, A.K. Priya, P. Senthil Kumar , Tuan K.A. Hoang, Karthikeyan Sekar, Kar Yeen Chong,	Chemosphere Vol. 303, pp. 135146, September 2022	https://doi.org/10.1016/j.chemosphere.2022.135146	8.943

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44.		A review on biodiesel production by algal biomass: Outlook on lifecycle assessment and techno-economic analysis	P.R. Yaashikaa, M. Keerthana Devi, P.Senthil Kumar* , E. Pandian	Fuel Vol. 324, pp. 124774, September 2022	https://doi.org/10.1016/j.fuel.2022.124774	8.035
45.		Extraction techniques in food industry: Insights into process parameters and their optimization	Adithya Sridhar, Vijay Vaishampayan, P.Senthil Kumar* , Muthamilselvi Ponnuchamy, Ashish Kapoor*	Food and Chemical Toxicology Vol. 166, pp. 113207, August 2022	https://doi.org/10.1016/j.fct.2022.113207	5.572
46.		Recent trends and advancements in nanoporous membranes for water purification	A.K.Priya, Lalitha Gnanasekaran, P.Senthil Kumar , A.A.Jalil, Tuan K.A.Hoang, Saravanan Rajendran, MatiasSoto-Moscoso, Deepanraj Balakrishnan	Chemosphere Vol. 303, pp. 135205, September 2022	https://doi.org/10.1016/j.chemosphere.2022.135205	8.943
47.		Metronidazole photocatalytic degradation by zinc oxide nanoparticles synthesized in watermelon peel extract; Advanced	Adel Al-Gheethi*, Narmatha Sundram, Rich Crane, Abdullah Alburahi, Radin	Environmental Research Vol. 212, pp. 113537, September	https://doi.org/10.1016/j.envres.2022.113537	8.431

		optimization, simulation and numerical models using machine learning applications	Maya Saphira Radin Mohamed**, Muhanna Mohammed Al-Shaibani, Efaq Ali Noman, Senthil Kumar Ponnusamy , Nor Amani Filzah Mohd Kamil	2022		
48.		Effect of grinding time on bismuth oxyhalides optical and morphological properties influence on photocatalytic removal of organic dye	SP. Keerthana, K. Kowsalya, P.Senthil Kumar* , R. Yuvakkumar*, L. Kungumadevi, G. Ravi, Dhayalan Velauthapillai	Chemosphere Vol. 304, pp. 135272, October 2022	https://doi.org/10.1016/j.chemosphere.2022.135272	8.943
49.		An efficient high powered sulfamethaxazole sensor based on p-n junction heterostructures using nanostructured ZnO thin film and graphene oxide sheets	Ponnusamy Senthil Kumar* , Balakrishnapillai Suseela Sreeja, Padmalaya Gurunathan, Kungumaraj Krishna Kumar	Industrial & Engineering Chemistry Research Vol. 62(11), pp. 4521– 4531, March 2023	https://doi.org/10.1021/acs.iecr.2c01206	4.326
50.		Recent advances in electrochemical sensor developments for detecting emerging pollutant in water environment	V. Karthik, P.Selvakumar, P.Senthil Kumar* , V. Satheeskumar, M. Godwin Vijaysunder,	Chemosphere Vol. 304, pp. 135331, October 2022	https://doi.org/10.1016/j.chemosphere.2022.135331	8.943

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51.		Preparation and characterization of antimony nanoparticles for hydrogen evolution activities	V. Thirumal, R. Yuvakkumar*, P.Senthil Kumar* , B. Saravanakumar, G. Ravia, M. Shobana, Dhayalan Velauthapillai	Fuel Vol. 325, pp. 124908, October 2022	https://doi.org/10.1016/j.fuel.2022.124908	8.035
52.		Nitrogen and nitrogen-sulfur doped graphene nanosheets for efficient hydrogen productions for HER studies	V. Thirumal, R. Yuvakkumar*, P.Senthil Kumar* , G. Ravi, M. Shobana, B. Saravanakumar, Dhayalan Velauthapillai	International Journal of Hydrogen Energy Vol. 47(98), pp. 41461-41467, December 2022	https://doi.org/10.1016/j.ijhydene.2022.06.136	7.139
53.		Ruthenium dioxide anchored on reduced graphene oxide nanocomposite for 1.2 V symmetric supercapacitor devices	V. Uma Shankar, P.Senthil Kumar* , D. Govindarajan, P. Nethaji, G. Bharath Balji	Sustainable Energy Technologies and Assessments Vol. 53, pp. 102444, October 2022	https://doi.org/10.1016/j.seta.2022.102444	7.632
54.		Exploration of effective biorefinery approach to obtain the commercial value-added products from	S.Thanigaivel, A.K.Priya, P.Senthil Kumar , Khoo Kuan	Sustainable Energy Technologies and	https://doi.org/10.1016/j.seta.2022.102450	7.632

		algae	Shiong, Tuan K.A.Hoang, Saravanan Rajendran, MatiasSoto- Moscoso	Assessments Vol. 53, pp. 102450, October 2022		
55.		Antimicrobial activity and cytotoxicity effect of the prepared bioactive Ag-NPs using Senna alata leaf extract on MCF-7 cancer cell line and brine shrimp	A. Saravanan, V. Parthasarathy, P. Senthil Kumar	Journal of Sol-Gel Science and Technology Vol. 103, pp. 766-776, September 2022	https://doi.org/10.1007/s10971-022-05889-8	2.606
56.		Understanding the impact of different pretreatment methods on the conversion of Casuarina equisetifolia biomass to 5-hydroxymethylfurfural and their energy cost assessment	Devi Sri Rajendran, Swethaa Venkataraman, P.Senthil Kumar* , Trishita Bhattacharya, Krishnakumar Ramachandran, Vinoth Kumar Vaidyanathan*	Industrial Crops & Products Vol.186, pp. 115275, October 2022	https://doi.org/10.1016/j.indcrop.2022.115275	6.449
57.		Green synthesis of a photocatalyst Ag/TiO ₂ nanocomposite using Cleistocalyx operculatus leaf extract for degradation of organic dyes	Tran Hung Nguyen, Nhat Huy Hoang, Chinh Van Tran, P.T.M. Nguyen, Trung-Dung Dang*, W. Jin Chung, S. Woong Chang, D. Duc Nguyen*, P.Senthil	Chemosphere Vol. 306, pp. 135474, November 2022	https://doi.org/10.1016/j.chemosphere.2022.135474	8.943

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58.		IGZO-decorated ZnO thin films and their application for gas sensing	Sunil Babu Eadi, Han Yan, P.Senthil Kumar* , R.Yuvakkumar, Hi-Deok Lee*	Environmental Research Vol. 214, pp. 113796, November 2022	https://doi.org/10.1016/j.envres.2022.113796	8.431
59.		Photocatalytic degradation of methylene blue dye using newly synthesized Zirconia nanoparticles	Ramesh Vinayagam, Bhawesh Singhanian, Gokulakrishnan Murugesan, P.Senthil Kumar , Ruchi Bhole, Manoj Kumar Narasimhan, Thivaharan Varadavenkatesan	Environmental Research Vol. 214, pp. 113785, November 2022	https://doi.org/10.1016/j.envres.2022.113785	8.431
60.		Carbon dioxide methanation on heterogeneous catalysts: a review	Cham Q. Pham, Mahadi B. Bahari · Ponnusamy Senthil Kumar , Shams Forruque Ahmed, Leilei Xiao, Sunil Kumar, Amjad Saleh Qazaq, Tan Ji Siang, Huu-Tuan Tran, Aminul Islam, Adel Al-Gheethi, Yasser	Environmental Chemistry Letters Vol. 20, pp. 3613-3630, December 2022	https://doi.org/10.1007/s10311-022-01483-0	13.615

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61.		Plant-mediated gold and silver nanoparticles as detectors of heavy metal contamination	Sneha Nayak*, Louella Concepta Goveas, P.Senthil Kumar* , Raja Selvaraj, Ramesh Vinayagam	Food and Chemical Toxicology Vol. 167, pp. 113271, September 2022	https://doi.org/10.1016/j.fct.2022.113271	5.572
62.		Laccase production by <i>Pleurotus ostreatus</i> using cassava waste and its application in remediation of phenolic and polycyclic aromatic hydrocarbon contaminated lignocellulosic biorefinery wastewater	Vaidyanathan Vinoth Kumar, Swethaa Venkataraman, P.Senthil Kumar* , Jenet George, Devi Sri Rajendran, Anna Shaji, Nicole Lawrence, Kongkona Saikia, Abiram Karanam Rathankumar	Environmental Pollution Vol. 309, pp. 119729, September 2022	https://doi.org/10.1016/j.envpol.2022.119729	9.988
63.		Heterostructured γ -Fe ₂ O ₃ /FeTiO ₃ magnetic nanocomposite: An efficient visible-light-driven photocatalyst for the degradation of organic dye	N. Subha, M. Mahalakshmi*, S. Monika, P. Senthil kumar , V. Preethi, G. Vaishnavi, A. Rajabhuaneswari	Chemosphere Vol. 306, pp. 135631, November 2022	https://doi.org/10.1016/j.chemosphere.2022.135631	8.943
64.		Threats, challenges and sustainable conservation	Shams Forruque Ahmed*,	Environmental Research	https://doi.org/10.1016/j.envres.2022.11380	8.431

		strategies for freshwater Biodiversity	P. Senthil Kumar , Maliha Kabir, Fatema Tuz Zuhara, Aanushka Mehjabin, Nuzaba Tasannum, Anh Tuan Hoang**, Zobaidul Kabire, M. Mofijur	Vol. 214, pp. 113808, November 2022	8	
65.		Biochar derived carbonaceous material for various environmental applications: Systematic review	A. Saravanan, P.Senthil Kumar*	Environmental Research Vol. 214, pp. 113857, November 2022	https://doi.org/10.1016/j.envres.2022.113857	8.431
66.		Engineering microbes for enhancing the degradation of environmental pollutants: A detailed review on synthetic biology	P.R. Yaashikaa, M. Keerthana Devi, P.Senthil Kumar*	Environmental Research Vol. 214, pp. 113868, 2022	https://doi.org/10.1016/j.envres.2022.113868	8.431
67.		Treatment of mixed azo dyes in an aerobic sequential batch reactor and toxicity assessment using <i>Vigna radiata</i>	T. Akshaya Vidhya, K. Veena Gayathri*, P.Senthil Kumar* , Gayathri Rangasamy, Tasneem M Kathawala	International Journal of Chemical Engineering Vol. 2022, pp. 1-2, Article ID 7083772, 2022	https://doi.org/10.1155/2022/7083772	2.729
68.		Biohydrogen Production: An outlook on methods, constraints, economic	P.R. Yaashikaa, M. Keerthana Devi,	International Journal of Hydrogen	https://doi.org/10.1016/j.ijhydene.2022.07.082	7.139

		analysis and future prospect	P. Senthil Kumar*	Energy Vol. 47(98), pp. 41488-41506, December 2022		
69.		The consequence of Mg and Mn doping on the structure, photoluminescence, morphology, photocatalytic performance properties of t,m-ZrO ₂ nanoparticles fabricated by the co-precipitation method	G. Rajesh, S. Akilandeswari, P.Senthil Kumar* V.Uma Shankar, M.Ramya, K.Nirmala	Applied Nanoscience August 2022	https://doi.org/10.1007/s13204-022-02579-3	3.869
70.		A review on synthesis methods and recent applications of nanomaterial in wastewater treatment: Challenges and future perspectives	A. Saravanan, P.Senthil Kumar* , R.V. Hemavathy, S. Jeevanantham, Marie Jyotsna Jawahar, J.P. Neshanthini, R. Saravanan	Chemosphere Vol. 307, pp. 135713, November 2022	https://doi.org/10.1016/j.chemosphere.2022.135713	8.943
71.		Biosensor for heavy metals detection in wastewater: A review	Karthik Velusamy, Selvakumar Periyasamy, P.Senthil Kumar* , Gayathri Rangasamy, J. Mercy Nisha Pauline, Pradeep Ramaraju, Sneka	Food and Chemical Toxicology Vol. 168, pp. 113307, October 2022	https://doi.org/10.1016/j.fct.2022.113307	5.572

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72.		Electrochemical sensing of copper (II) ion in water using bi-metal oxide framework modified glassy carbon electrode	Senthil Theerthagiri, Parkavi Rajkannu, P.Senthil Kumar* , Prabukanthan Peethambaram, Chandramohan Ayyavu, Ramachandran Rasu, Dinakaran Kannaiyan*	Food and Chemical Toxicology Vol. 167, pp. 113313, September 2022	https://doi.org/10.1016/j.fct.2022.113313	5.572
73.		Investigation of Nafion coated GO-ZnO nanocomposite behaviour for sulfamethoxazole detection using cyclic voltammetry	P.Senthil Kumar* , B.S. Sreeja, K. Krishna Kumar, G. Padmalaya	Food and Chemical Toxicology Vol. 167, pp. 113311, September 2022	https://doi.org/10.1016/j.fct.2022.113311	5.572
74.		Epidemiological impact of COVID-19 in India: Country with second foremost positive cases in the world	V. Uma Shankar, P.Senthil Kumar* , K. Nirmala	Total Environment Research Themes Vol. 3-4, pp. 100007, December 2022	https://doi.org/10.1016/j.totert.2022.100007	Scopus Indexed
75.		Green synthesis of Mn ₃ O ₄ nanoparticles using Costus	Thuan Van Tran, Duyen Thi Cam	Environmenta I Research	https://doi.org/10.1016/j.envres.2022.11392	8.431

		woodsonii flowers extract for effective removal of malachite green dye	Nguyen, Ponnusamy Senthil Kumar , Azam Taufik Mohd Din, Amjad Saleh Qazaq, Dai-Viet N. Vo*	Vol. 214, pp. 113925, November 2022	5	
76.		Remedial strategies for abating 1,4-dioxane pollution-Special emphasis on diverse biotechnological interventions	Mansi Kikani, Gopi Vijaybhal Satasiya, Tarini Prasad Sahoo, P. Senthil Kumar , M. Anil Kumar	Environmental Research Vol. 214, pp. 113939, November 2022	https://doi.org/10.1016/j.envres.2022.113939	8.431
77.		Assessment of physico-chemical parameters of surface waters of a tropical brackish water lake in South Asia	K. Nirmala, P.Senthil Kumar* , N.K. Ambujam, S. Srinivasalu	Environmental Research Vol. 214, pp. 113958, November 2022	https://doi.org/10.1016/j.envres.2022.113958	8.431
78.		Metal mixed biochar electrodes for the generation of electricity with high power density in microbial fuel cell	M. Ramya, Kilaru Harsha Vardhan*, P.Senthil Kumar*	Sustainable Energy Technologies and Assessments Vol. 53, pp. 102549, October 2022	https://doi.org/10.1016/j.seta.2022.102549	7.632
79.		Modeling of sugarcane bagasse conversion to levulinic acid using	Marcelina Ogedjo, Ashish Kapoor*, P.Senthil	Fuel Vol. 329, pp. 125409,	https://doi.org/10.1016/j.fuel.2022.125409	8.035

		response surface methodology (RSM), artificial neural networks (ANN), and fuzzy inference system (FIS): a comparative evaluation	Kumar* , Gayathri Rangasamy, Muthamilselvi Ponnuchamy, Manjula Rajagopal, Protibha Nath Banerjee*	December 2022		
80.	Dr. V. Jaikumar	Bioethanol production optimization through machine learning algorithm approach: biomass characteristics, saccharification, and fermentation conditions for enzymatic hydrolysis	Nithianantharaj Vinitha, Jaikumar vasudevan , Kannappan Panchamoorthy Gopinath	Biomass Conversion and Biorefinery , August 2022	https://doi.org/10.1007/s13399-022-03163-z .	4.050
81.	Dr. D. Gnana Prakash	Biological approaches of reduced graphene oxide (rGO) nanosheets using Pleurotus sajor caju extract and its in vitro pharmaceutical applications	Kumar Manimaran, Dhakshinamoorthy Gnana Prakash, Selvaraj Kumar, Karunanithi Bogeshwaran, Kholood A Dahlous, Abdallah AA Mohammed, Mani Govindasamy	Biomass Conversion and Biorefinery , October 2022	https://doi.org/10.1007/s13399-022-03457-2	4.050
82.		Mycosynthesis and biochemical characterization of Hypsizygusulmarius derived ZnO nanoparticles and test its biomedical applications	Kumar Manimaran, Settu Loganathan, Dhakshinamoorthy Gnana Prakash, Devarajan Natarajan, Fatmah	Biomass Conversion and Biorefinery , November 2022	https://doi.org/10.1007/s13399-022-03582-y	4.050

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83.		Antibacterial and anticancer potential of mycosynthesized titanium dioxide (TiO ₂) nanoparticles using <i>Hypsizygus ulmarius</i>	Kumar Manimaran, Settu Loganathan, Dhakshinamoorthy Gnana Prakash, Devarajan Natarajan	Biomass Conversion and Biorefinery, August 2022	https://doi.org/10.1007/s13399-022-03186-6	4.050
84.	Dr.Nalinkanth V Ghone	In Vitro and In Vivo Comparative Analysis of Differentially Expressed Genes and Signaling Pathways in Breast Cancer Cells on Interaction with Mesenchymal Stem Cells	Jayaraman, H., Anandhapadman, A., Ghone, N.V.	Applied Biochemistry and Biotechnology, 2023, 195(1), pp. 401–431 January 2023	10.1007/s12010-022-04119-9	3.094
85.	Dr. B. Ambedkar	Critical Review on Carbon-Based Nanomaterial for Carbon Capture: Technical Challenges, Opportunities, and Future Perspectives	Venkadeshkumar Ramar, Ambedkar Balraj*	Energy Fuels 2022, 36, 22, 13479–13505 October 2022	https://doi.org/10.1021/acs.energyfuels.2c02585	4.65
86.	Dr. R. Anantharaj	Investigation of Molecular Interaction, Performance of Green Solvent in Esterification of Ethanol and Acetic Acid at 298.15 K and at 1 atm.	Anantharaj Ramalingam , Tamal Banerjee, Vivek Mariappan Santhi, Dhirendra Kumar Mishra, Danish John Paul Mark Reji, Shruthi Nagaraj	Asia-Pacific Journal of Chemical Engineering, 2023,18(1) e2875 February 2023	https://doi.org/10.1002/apj.2875	1.777

87.		Density Functional Theory Study of the Molecular Interaction between Selective Phenolic Compounds and Glycerol-Based Deep Eutectic Solvents	Vichitra Malaiyarasan, Varshith Vijayan Nidhya, Anantharaj Ramalingam , and Sujatha Ramalingam	ACS Agricultural Science & Technology 2023 3 (1), 110-118, December 2022	https://doi.org/10.1021/acsagscitech.2c00251	2.5
88.		Solution Thermodynamic Properties of {Tetrabutyl Ammonium Bromide: Glycerol} Hydrophilic DESs at T = 298.15–348.15 K and 0.1 MPa and an Approach over Solvent Extraction of Cr (VI) Using {Tetrabutyl Ammonium Bromide: Decanoic Acid/Oleic Acid} Hydrophobic DESs	K. Kadambanathan and R. Anantharaj	Journal of Chemical & Engineering Data, 2023 68 (1), 40-63 December 2022	https://doi.org/10.1021/acs.jced.2c00549	3.119
89.	Dr. D. Balaji	A Short Review On Feedstock Characteristics In Methane Production From Municipal Solid Waste	Arunthathi S, Balaji D and Sivapriya V	Architecture, Civil Engineering, Environment, vol. 3, pp. 75–85, 2022 Available January 2023	doi: 10.2478/ACEE-2022-0032.	
90.		Enhanced photocatalytic degradation kinetics of azo-dyes by novel Ni ²⁺ and Ag ²⁺ doped ZnO nanocatalysts	Chitra Sekaran; Balaji Dhandapani; Alagesan, T., Balaji, G	Applied Surface Science Advances, vol. 12, p. 100333, Online December. 2022	doi: 10.1016/j.apsadv.2022.100333.	

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92.	Dr.Kilaru Harsha Vardhan	Adsorptive behaviour of surface tailored fungal biomass for the elimination of toxic dye from wastewater	V Karthik, P Senthil Kumar, Kilaru Harsha Vardhan, K Saravanan, N Nithyakala	International Journal of Environmental Analytical Chemistry, 102 (16), 4710-4725, Publication date 2022/12/16	https://doi.org/10.1080/03067319.2020.1787400	2.826
93.		Adsorption of copper ions from polluted water using biochar derived from waste renewable resources: static and dynamic analysis	Kilaru Harsha Vardhan, P Senthil Kumar, Rames C Panda	International Journal of Environmental Analytical Chemistry 102 (16), 4067-4088, Publication date 2022/12/16	https://doi.org/10.1080/03067319.2020.1779245	2.826
94.		Metal mixed biochar electrodes for the generation of electricity with high power density in microbial fuel cell.	M Ramya, Kilaru Harsha Vardhan, P Senthil Kumar	Sustainable Energy Technologies and Assessments 53, 102549, Publication date 2022/10/1	doi.org/10.1016/j.seta.2022.102549	7.362

95.	Dr. Pachimatla Rajesh	Nonlinear Electrochemical Impedance Spectroscopy as a Novel Approach to Identify an Electrochemical Reaction Mechanism at Electrode-Electrolyte Interface	Pachimatla Rajesh	International Journal of Electrochemical Science, 17 (2022). Article Number: 220519 May 2022	https://doi.org/10.20964/2022.05.22	1.765
96.		Sustainable transition towards biomass-based cement industry: A review	Ravi Teja Kusuma, Rahul B. Hiremath, Pachimatla Rajesh b, Bimlesh Kumar, Suresh Renukappa	Renewable and Sustainable Energy Reviews 163 (2022) 112503, July 2022	doi.org/10.1016/j.rser.2022.112503	14.98