Luong Ngoc Nguyen

List of Publications by Year
in descending order

86	3,518	126858	149623
papers	citations	33 h-index	56 g-index

87	87	87	3111
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A comprehensive review on the framework to valorise lignocellulosic biomass as biorefinery feedstocks. Science of the Total Environment, 2020, 743, 140630.	3.9	145
2	Removal of pharmaceuticals, steroid hormones, phytoestrogens, UV-filters, industrial chemicals and pesticides by Trametes versicolor:ÂRole of biosorption and biodegradation. International Biodeterioration and Biodegradation, 2014, 88, 169-175.	1.9	143
3	Removal of micropollutants by membrane bioreactor under temperature variation. Journal of Membrane Science, 2011, 383, 144-151.	4.1	138
4	Monitoring antibiotic resistance genes in wastewater treatment: Current strategies and future challenges. Science of the Total Environment, 2021, 783, 146964.	3.9	136
5	Removal of trace organic contaminants by a membrane bioreactorâ€“granular activated carbon (MBRâ€“GAC) system. Bioresource Technology, 2012, 113, 169-173.	4.8	127
6	Continuous adsorption and biotransformation of micropollutants by granular activated carbon-bound laccase in a packed-bed enzyme reactor. Bioresource Technology, 2016, 210, 108-116.	4.8	127
7	Direct immobilization of laccase on titania nanoparticles from crude enzyme extracts of P. ostreatus culture for micro-pollutant degradation. Separation and Purification Technology, 2017, 178, 215-223.	3.9	125
8	Removal of emerging trace organic contaminants by MBR-based hybrid treatment processes. International Biodeterioration and Biodegradation, 2013, 85, 474-482.	1.9	114
9	Removal of trace organic contaminants by an MBR comprising a mixed culture of bacteria and white-rot fungi. Bioresource Technology, 2013, 148, 234-241.	4.8	112
10	Removal of bisphenol A and diclofenac by a novel fungal membrane bioreactor operated under non-sterile conditions. International Biodeterioration and Biodegradation, 2013, 85, 483-490.	1.9	108
11	Biomethane production from anaerobic co-digestion at wastewater treatment plants: A critical review on development and innovations in biogas upgrading techniques. Science of the Total Environment, 2021, 765, 142753.	3.9	103
12	Impacts of redox-mediator type on trace organic contaminants degradation by laccase: Degradation efficiency, laccase stability and effluent toxicity. International Biodeterioration and Biodegradation, 2016, 113, 169-176.	1.9	101
13	Continuous biotransformation of bisphenol A and diclofenac byÂlaccase in an enzymatic membrane reactor. International Biodeterioration and Biodegradation, 2014, 95, 25-32.	1.9	82
14	Removal process of antibiotics during anaerobic treatment of swine wastewater. Bioresource Technology, 2020, 300, 122707.	4.8	79
15	Laccaseâ€“syringaldehyde-mediated degradation of trace organic contaminants in an enzymatic membrane reactor: Removal efficiency and effluent toxicity. Bioresource Technology, 2016, 200, 477-484.	4.8	75
16	Per- and polyfluoroalkyl substances in soil and sediments: Occurrence, fate, remediation and future outlook. Science of the Total Environment, 2020, 748, 141251.	3.9	75
17	Coupling granular activated carbon adsorption with membrane bioreactor treatment for trace organic contaminant removal: Breakthrough behaviour ofÂpersistent and hydrophilic compounds. Journal of Environmental Management, 2013, 119, 173-181.	3.8	73
18	Microalgae-bacteria consortium for wastewater treatment and biomass production. Science of the Total Environment, 2022, 838, 155871.	3.9	70

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19	Application of rumen and anaerobic sludge microbes for bio harvesting from lignocellulosic biomass. Chemosphere, 2019, 228, 702-708.	4.2	64
20	The effects of mediator and granular activated carbon addition on degradation of trace organic contaminants by an enzymatic membrane reactor. Bioresource Technology, 2014, 167, 169-177.	4.8	63
21	Free and immobilized biocatalysts for removing micropollutants from water and wastewater: Recent progress and challenges. Bioresource Technology, 2022, 344, 126201.	4.8	61
22	Degradation of a broad spectrum of trace organic contaminants by anÂenzymatic membrane reactor: Complementary role of membrane retention and enzymatic degradation. International Biodeterioration and Biodegradation, 2015, 99, 115-122.	1.9	58
23	Aerobic biotransformation of the antibiotic ciprofloxacin by Bradyrhizobium sp. isolated from activated sludge. Chemosphere, 2018, 211, 600-607.	4.2	57
24	Enhanced Wastewater Treatment by Immobilized Enzymes. Current Pollution Reports, 2021, 7, 167-179.	3.1	51
25	Synergistic effect of dual flocculation between inorganic salts and chitosan on harvesting microalgae Chlorella vulgaris. Environmental Technology and Innovation, 2020, 17, 100622.	3.0	49
26	Comparison between sequential and simultaneous application of activated carbon with membrane bioreactor for trace organic contaminant removal. Bioresource Technology, 2013, 130, 412-417.	4.8	46
27	Enhancement of trace organic contaminant degradation by crude enzyme extract from Trametes versicolor culture: Effect of mediator type and concentration. Journal of the Taiwan Institute of Chemical Engineers, 2014, 45, 1855-1862.	2.7	44
28	Removal and monitoring acetaminophen-contaminated hospital wastewater by vertical flow constructed wetland and peroxidase enzymes. Journal of Environmental Management, 2019, 250, 109526.	3.8	44
29	Cometabolic biotransformation and impacts of the anti-inflammatory drug diclofenac on activated sludge microbial communities. Science of the Total Environment, 2019, 657, 739-745.	3.9	43
30	How microalgal biotechnology can assist with the UN Sustainable Development Goals for natural resource management. Current Research in Environmental Sustainability, 2021, 3, 100050.	1.7	41
31	A hybrid anaerobic and microalgal membrane reactor for energy and microalgal biomass production from wastewater. Environmental Technology and Innovation, 2020, 19, 100834.	3.0	40
32	Genome sequencing as a new window into the microbial community of membrane bioreactors â€“ A critical review. Science of the Total Environment, 2020, 704, 135279.	3.9	38
33	Management of Enteric Methanogenesis in Ruminants by Algal-Derived Feed Additives. Current Pollution Reports, 2020, 6, 188-205.	3.1	35
34	Phosphorus removal from aqueous solution by steel making slag â€“ Mechanisms and performance optimisation. Journal of Cleaner Production, 2021, 284, 124753.	4.6	35
35	Enhancement of removal of trace organic contaminants by powdered activated carbon dosing into membrane bioreactors. Journal of the Taiwan Institute of Chemical Engineers, 2014, 45, 571-578.	2.7	34
36	Ecological impact of the antibiotic ciprofloxacin on microbial community of aerobic activated sludge. Environmental Geochemistry and Health, 2020, 42, 1531-1541.	1.8	33

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37	Blue-Green Algae in Surface Water: Problems and Opportunities. Current Pollution Reports, 2020, 6, 105-122.	3.1	33
38	A comprehensive analysis of an effective flocculation method for high quality microalgal biomass harvesting. Science of the Total Environment, 2021, 752, 141708.	3.9	32
39	Integration of an enzymatic bioreactor with membrane distillation for enhanced biodegradation of trace organic contaminants. International Biodeterioration and Biodegradation, 2017, 124, 73-81.	1.9	29
40	Promotion of direct interspecies electron transfer and potential impact of conductive materials in anaerobic digestion and its downstream processing - a critical review. Bioresource Technology, 2021, 341, 125847.	4.8	29
41	Validation of a cationic polyacrylamide flocculant for the harvesting fresh and seawater microalgal biomass. Environmental Technology and Innovation, 2019, 16, 100466.	3.0	28
42	Impacts of antiseptic cetylpyridinium chloride on microbiome and its removal efficiency in aerobic activated sludge. International Biodeterioration and Biodegradation, 2019, 137, 23-29.	1.9	28
43	Factors governing microalgae harvesting efficiency by flocculation using cationic polymers. Bioresource Technology, 2021, 340, 125669.	4.8	28
44	Microalgae-based carbon capture and utilization: A critical review on current system developments and biomass utilization. Critical Reviews in Environmental Science and Technology, 2023, 53, 216-238.	6.6	28
45	The response surface methodology for optimization of tyrosinase immobilization onto electrospun polycaprolactoneâ€“chitosan fibers for use in bisphenol A removal. International Journal of Biological Macromolecules, 2020, 165, 2049-2059.	3.6	26
46	Derivation of volatile fatty acid from crop residues digestion using a rumen membrane bioreactor: A feasibility study. Bioresource Technology, 2020, 312, 123571.	4.8	26
47	Hydrogen sulphide management in anaerobic digestion: A critical review on input control, process regulation, and post-treatment. Bioresource Technology, 2022, 346, 126634.	4.8	26
48	A sequential membrane bioreactor followed by a membrane microalgal reactor for nutrient removal and algal biomass production. Environmental Science: Water Research and Technology, 2020, 6, 189-196.	1.2	24
49	Selection of microalgae strains for sustainable production of aviation biofuel. Bioresource Technology, 2022, 345, 126408.	4.8	24
50	Antiseptic chlorhexidine in activated sludge: Biosorption, antimicrobial susceptibility, and alteration of community structure. Journal of Environmental Management, 2019, 237, 629-635.	3.8	23
51	Impacts of mixing on foaming, methane production, stratification and microbial community in full-scale anaerobic co-digestion process. Bioresource Technology, 2019, 281, 226-233.	4.8	21
52	Biogas sparging to control fouling and enhance resource recovery from anaerobically digested sludge centrate by forward osmosis. Journal of Membrane Science, 2021, 625, 119176.	4.1	21
53	Fixed-bed adsorption performance and empirical modelingof cadmium removal using adsorbent prepared from the cyanobacterium Aphanothece sp cultivar. Environmental Technology and Innovation, 2021, 21, 101194.	3.0	20
54	Enzyme-based control of membrane biofouling for water and wastewater purification: A comprehensive review. Environmental Technology and Innovation, 2022, 25, 102106.	3.0	20

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55	Metals extraction processes from electronic waste: constraints and opportunities. Environmental Science and Pollution Research, 2022, 29, 32651-32669.	2.7	19
56	Continuous transformation of chiral pharmaceuticals in enzymatic membrane bioreactors for advanced wastewater treatment. Water Science and Technology, 2017, 76, 1816-1826.	1.2	18
57	Electrospun biosystems made of nylon 6 and laccase and its application in dyes removal. Environmental Technology and Innovation, 2021, 21, 101332.	3.0	18
58	A Novel Approach in Crude Enzyme Laccase Production and Application in Emerging Contaminant Bioremediation. Processes, 2020, 8, 648.	1.3	17
59	A contemporary review of enzymatic applications in the remediation of emerging estrogenic compounds. Critical Reviews in Environmental Science and Technology, 2022, 52, 2661-2690.	6.6	17
60	Impact of anaerobic co-digestion between sewage sludge and carbon-rich organic waste on microbial community resilience. Environmental Science: Water Research and Technology, 2018, 4, 1956-1965.	1.2	16
61	Effects of operational disturbance and subsequent recovery process on microbial community during a pilot-scale anaerobic co-digestion. International Biodeterioration and Biodegradation, 2019, 138, 70-77.	1.9	16
62	Bioremoval of estrogens by laccase immobilized onto polyacrylonitrile/polyethersulfone material: Effect of inhibitors and mediators, process characterization and catalytic pathways determination. Journal of Hazardous Materials, 2022, 432, 128688.	6.5	16
63	Application of a novel molecular technique to characterise the effect of settling on microbial community composition of activated sludge. Journal of Environmental Management, 2019, 251, 109594.	3.8	14
64	Synthesis and evaluation of cationic polyacrylamide and polyacrylate flocculants for harvesting freshwater and marine microalgae. Chemical Engineering Journal, 2022, 433, 133623.	6.6	14
65	Biomethane production from anaerobic co-digestion and steel-making slag: A new waste-to-resource pathway. Science of the Total Environment, 2020, 738, 139764.	3.9	12
66	Simultaneous nutrient recovery and algal biomass production from anaerobically digested sludge centrate using a membrane photobioreactor. Bioresource Technology, 2022, 343, 126069.	4.8	12
67	Microbial Community in Anaerobic Digestion System: Progression in Microbial Ecology. Energy, Environment, and Sustainability, 2019, , 331-355.	0.6	11
68	Impact of inorganic salts on degradation of bisphenol A and diclofenac by crude extracellular enzyme from Pleurotus ostreatus. Biocatalysis and Biotransformation, 2019, 37, 10-17.	1.1	11
69	Harvesting Porphyridium purpureum using polyacrylamide polymers and alkaline bases and their impact on biomass quality. Science of the Total Environment, 2021, 755, 142412.	3.9	11
70	Effects of harvesting on morphological and biochemical characteristics of microalgal biomass harvested by polyacrylamide addition, pH-induced flocculation, and centrifugation. Bioresource Technology, 2022, 359, 127433.	4.8	10
71	Trace Organic Contaminants Removal by Combined Processes for Wastewater Reuse. Handbook of Environmental Chemistry, 2014, , 39-77.	0.2	9
72	Acetic acid extraction from rumen fluid by forward osmosis. Environmental Technology and Innovation, 2020, 20, 101083.	3.0	8

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73	New insights to the difference in microbial composition and interspecies interactions between fouling layer and mixed liquor in a membrane bioreactor. Journal of Membrane Science, 2022, 643, 120034.	4.1	8
74	Aerobic membrane bioreactors for municipal wastewater treatment. , 2020, , 103-128.		6
75	Significance of the presence of antibiotics on the microbial consortium in wastewater â€“ The case of nitrofurantoin and furazolidone. Bioresource Technology, 2021, 339, 125577.	4.8	5
76	Removal of Trace Organic Contaminants by Integrated Membrane Processes for Water Reuse Applications. , 2016, , 533-578.		4
77	Chiral inversion of 2-arylpropionoic acid (2-APA) enantiomers during simulated biological wastewater treatment. Water Research, 2022, 209, 117871.	5.3	4
78	Anaerobic membrane bioreactors for emerging pollutants removal. , 2020, , 197-218.		2
79	Linking endogenous decay and sludge bulking in the microbial community to membrane fouling at sub-critical flux. , 2022, 2, 100023.		2
80	Chiral Inversion of 2-Arylpropionic Acid Enantiomers under Anaerobic Conditions. Environmental Science & Technology, 2022, 56, 8197-8208.	4.6	2
81	Contemporary Methods for Removal of Nonsteroidal Anti-inflammatory Drugs in Water Reclamations. Handbook of Environmental Chemistry, 2020, , 217-239.	0.2	1
82	Coupling Powdered Activated Carbon (PAC) Adsorption with Membrane Bioreactor (MBR) Treatment for Enhanced Removal of Trace Organics. Procedia Engineering, 2012, 44, 1410-1411.	1.2	0
83	Aerobic membrane bioreactors and micropollutant removal. , 2020, , 147-162.		0
84	Solar driven produced water treatment for beneficial uses. APPEA Journal, 2021, 61, 25.	0.4	0
85	Valorizing agricultural residues as biorefinery feedstocks: current advancements and challenges. , 2021, , 25-48.		0
86	Nutrient recovery from anaerobic digestate. , 2022, , 131-150.		0