Taku Fujiwara

List of Publications by Year in descending order

73 papers	856 citations	566801 15 h-index	525886 27 g-index
73 all docs	73 docs citations	73 times ranked	967 citing authors

#	Article	IF	Citations
1	pH-Dependent adsorption of sulfa drugs on high silica zeolite: Modeling and kinetic study. Desalination, 2011, 275, 237-242.	4.0	110
2	Photocatalytic decomposition behavior and reaction pathway of sulfamethazine antibiotic using TiO2. Journal of Environmental Management, 2015, 157, 103-110.	3.8	54
3	Removal behaviors of sulfamonomethoxine and its degradation intermediates in fresh aquaculture wastewater using zeolite/TiO2 composites. Journal of Hazardous Materials, 2017, 340, 427-434.	6.5	50
4	Nitrous oxide emission mechanisms during intermittently aerated composting of cattle manure. Bioresource Technology, 2013, 141, 205-211.	4.8	41
5	Modeling of sulfonamide antibiotic removal by TiO2/high-silica zeolite HSZ-385 composite. Journal of Hazardous Materials, 2014, 272, 1-9.	6.5	39
6	Adsorptive removal and photocatalytic decomposition of sulfamethazine in secondary effluent using TiO2â€“zeolite composites. Environmental Science and Pollution Research, 2014, 21, 834-842.	2.7	39
7	Innovative Treatment of Organic Contaminants in Reverse Osmosis Concentrate from Water Reuse: a Mini Review. Current Pollution Reports, 2019, 5, 294-307.	3.1	35
8	Removal of 1,4-dioxane from landfill leachate by a rotating advanced oxidation contactor equipped with activated carbon/TiO2 composite sheets. Journal of Hazardous Materials, 2020, 383, 121005.	6.5	32
9	Photocatalytic decomposition of crotamiton over aqueous TiO2 suspensions: Determination of intermediates and the reaction pathway. Chemosphere, 2012, 89, 213-220.	4.2	30
10	Solid fuel production from cattle manure by dewatering using liquefied dimethyl ether. Fuel, 2015, 159, 7-14.	3.4	30
11	Removal of sulfamonomethoxine and its transformation byproducts from fresh aquaculture wastewater by a rotating advanced oxidation contactor equipped with zeolite/TiO2 composite sheets. Chemical Engineering Research and Design, 2020, 134, 161-168.	2.7	26
12	Concept of an innovative water management system with decentralized water reclamation and cascading material-cycle for agricultural areas. Water Science and Technology, 2012, 66, 1171-1177.	1.2	24
13	Adsorptive removal of sulfonamide antibiotics in livestock urine using the high-silica zeolite HSZ-385. Water Science and Technology, 2013, 67, 319-325.	1.2	23
14	Relationship between respiratory quotient, nitrification, and nitrous oxide emissions in a forced aerated composting process. Waste Management, 2015, 42, 10-16.	3.7	18
15	Thermodynamics of removing crotamiton and its transformation byproducts from water by a rotating advanced oxidation contactor with zeolite/TiO2 composite sheets. Chemical Engineering Journal, 2020, 380, 122479.	6.6	16
16	Comparison of simultaneous and separate processes: saccharification and thermophilic<scp>L</scp>-lactate fermentation of catch crop and aquatic plant biomass. Environmental Technology (United Kingdom), 2012, 33, 1523-1529.	1.2	15
17	Factors affecting the adsorptive removal of bisphenol A in landfill leachate by high silica Y-type zeolite. Environmental Science and Pollution Research, 2015, 22, 2788-2799.	2.7	13
18	Removal mechanism of sulfamethazine and its intermediates from water by a rotating advanced oxidation contactor equipped with TiO2â€“high-silica zeolite composite sheets. Environmental Science and Pollution Research, 2018, 25, 29017-29025.	2.7	13

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19	Investigation of 1,4-dioxane originating from incineration residues produced by incineration of municipal solid waste. Chemosphere, 2008, 71, 894-901.	4.2	12
20	Nutrient recovery from biomass cultivated as catch crop for removing accumulated fertilizer in farm soil. Water Science and Technology, 2012, 66, 1110-1116.	1.2	12
21	Characteristics of Nutrient Salt Uptake Associated with Water Use of Corn as a Catch Crop at Different Plant Densities in a Greenhouse. Pedosphere, 2014, 24, 339-348.	2.1	11
22	Emission of greenhouse gases from controlled incineration of cattle manure. Environmental Technology (United Kingdom), 2012, 33, 1539-1544.	1.2	10
23	Evaluation of a novel oxidation ditch system with dual DO control technology for biological nutrient removal by mass balance analysis. Desalination, 2012, 286, 24-33.	4.0	10
24	Seasonal changes in the performance of a catch crop for mitigating diffuse agricultural pollution. Water Science and Technology, 2013, 68, 776-782.	1.2	10
25	Effluent N, P and COD Loads from Paddy Fields in Japan: A Critical Review. Journal of Japan Society on Water Environment, 2015, 38, 81-91.	0.1	10
26	Combined use of sugars and nutrients derived from young maize plants for thermophilic l-lactic acid fermentation. Industrial Crops and Products, 2015, 69, 440-446.	2.5	10
27	Effects of soil type and nitrate concentration on denitrification products (N₂O and) Tj ETQq1 1 0.784314 rgBT /Overlock 1 Nutrition, 2015, 61, 999-1004.	0.8	10
28	Removal of Crotamiton from Reverse Osmosis Concentrate by a TiO2/Zeolite Composite Sheet. Applied Sciences (Switzerland), 2017, 7, 778.	1.3	10
29	Sulfonamide antibiotic removal and nitrogen recovery from synthetic urine by the combination of rotating advanced oxidation contactor and methylene urea synthesis process. Water Science and Technology, 2015, 72, 238-244.	1.2	9
30	Internet of Plants (IoP) Empowers Bottom-up Innovations in Greenhouse Horticulture. Environmental Control in Biology, 2022, 60, 3-12.	0.3	9
31	Sequential variation of groundwater quality in an agricultural area with greenhouses near the coast. Water Science and Technology, 2002, 45, 53-61.	1.2	8
32	Cascade utilization of water chestnut: recovery of phenolics, phosphorus, and sugars. Environmental Science and Pollution Research, 2013, 20, 5373-5378.	2.7	8
33	Analyzing Evapotranspiration Components and Crop Coefficients for Catch Crop Field with Small Area at Different Plant Densities in a Greenhouse. Environmental Control in Biology, 2011, 49, 217-225.	0.3	8
34	Aqueous leaching of cattle manure incineration ash to produce a phosphate enriched fertilizer. Journal of Material Cycles and Waste Management, 2016, 18, 608-617.	1.6	7
35	Emission and control of N₂O and composition of ash derived from cattle manure combustion using a pilot-scale fluidized bed incinerator. Environmental Technology (United) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf		
36	Nitrous oxide emissions during biological soil disinfestation with different organic matter and plastic mulch films in laboratory-scale tests. Environmental Technology (United Kingdom), 2016, 37, 432-438.	1.2	7

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37	Removal of crotamiton and its degradation intermediates from secondary effluent using TiO2â€“zeolite composites. Water Science and Technology, 2018, 77, 788-799.	1.2	7
38	Spatial and daily variations of nitrous oxide emissions from biological reactors in a full-scale activated sludge anoxic/oxic process. Journal of Bioscience and Bioengineering, 2019, 127, 333-339.	1.1	7
39	Effect of draft tube diameter on nitrogen removal from domestic sewage in a draft tube type reactor. Water Science and Technology, 1998, 38, 319.	1.2	6
40	Evaluation of a novel oxidation ditch system for biological nitrogen and phosphorus removal from domestic sewage. Water Science and Technology, 2010, 62, 1745-1754.	1.2	6
41	Non-sterile simultaneous saccharification and fermentation of corn leaves and stalks to l-lactic acid without external nutrient addition. Journal of Material Cycles and Waste Management, 2016, 18, 208-214.	1.6	6
42	Preparation of Flexible TiO₂/zeolite Composite Sheets for Removal of Sulfamethazine from Wastewater Using Papermaking Technique. Journal of Water and Environment Technology, 2019, 17, 395-406.	0.3	6
43	Energy Efficiency of Full-scale Oxidation Ditch with Dual Dissolved Oxygen Control Technology in Clean Water and Domestic Wastewater. Journal of Water and Environment Technology, 2012, 10, 229-240.	0.3	5
44	Advantages of pre-harvest temporal flooding in a catch crop field in relation to soil moisture and nutrient salt removal by root uptake. Biologia (Poland), 2014, 69, 1577-1584.	0.8	5
45	Identification of microbial populations contributing to nitrification-associated nitrous oxide emission during cattle manure composting process with forced aeration. Journal of Material Cycles and Waste Management, 2018, 20, 353-360.	1.6	5
46	Variation of Fresh-Salt Water Interface in a Coastal Aquifer and Detection of the Interface by Electrical Prospecting. Journal of Groundwater Hydrology, 2000, 42, 223-233.	0.1	4
47	Effects of cultivation period on catch crop chemical composition and potential for bioenergy production. Industrial Crops and Products, 2018, 111, 787-793.	2.5	4
48	Relation between the depth of saltwater/freshwater interface estimated by Wenne r method and the electric conductivity of groundwater. Journal of Groundwater Hydrology, 2006, 48, 169-181.	0.1	2
49	Utilization of water chestnut for reclamation of water environment and control of cyanobacterial blooms. Environmental Science and Pollution Research, 2014, 21, 2249-2255.	2.7	2
50	Characterization of Effluent Water Quality from Hydroponic Cultivation System. Journal of Water and Environment Technology, 2021, 19, 64-73.	0.3	2
51	Ion-Exclusion/Cation-Exchange Chromatography Using Dual-Ion-Exchange Groups for Simultaneous Determination of Inorganic Ionic Nutrients in Fertilizer Solution Samples for the Management of Hydroponic Culture. Agronomy, 2021, 11, 1847.	1.3	2
52	Nitrous oxide and carbon dioxide emissions from two types of soil amended with manure compost at different ammonium nitrogen rates. Soil Science and Plant Nutrition, 2022, 68, 473-490.	0.8	2
53	Effects of tidal river on the temporal variation of saltwater intrusion in a coastal aq uifer. Journal of Groundwater Hydrology, 2004, 46, 299-313.	0.1	1
54	EVALUATION OF GREENHOUSE GAS EMISSION, NITROGEN LOAD AND BREAK-EVEN POINT OF INTRODUCING LACTATE FERMENTATION AND CATCH CROP SYSTEM. Journal of Japan Society of Civil Engineers Ser G (Environmental Research), 2014, 70, III_483-III_491.	0.1	1

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55	Simulation of the Collection of Catch Crops for the Recovery of Agricultural Resources using Geographic and Statistical Data. Transactions in GIS, 2016, 20, 221-239.	1.0	1
56	Adsorptive Removal and Photocatalytic Decomposition of 1,4-Dioxane in Landfill Leachate using Activated Carbon/TiO₂ Composites. Journal of Japan Society of Civil Engineers Ser G (Environmental Research), 2016, 72, III_419-III_427.	0.1	1
57	Removing crotamiton from reverse osmosis concentrate by using coagulation and a rotating advanced oxidation contactor. Environmental Quality Management, 2021, 31, 85-94.	1.0	1
58	EFFECTS OF A WASHING PROCESS OF CATTLE MANURE ASH ON ROOT AND SHOOT GROWTH OF KOMATSUNA (BRASSICA RAPA VAR. PERVIRIDIS) AT THE SEEDLING STAGE. Journal of Environmental Science for Sustainable Society, 2017, 8, 15-21.	0.1	1
59	Comprehensive analysis of soil nitrogen removal by catch crops based on growth and water use. International Agrophysics, 2016, 30, 383-390.	0.7	1
60	Inactivation of plant pathogenic bacterium Ralstonia solanacearum in drainage solution from hydroponic system by a rotating advanced oxidation contactor equipped with TiO2/zeolite composite sheets. Journal of Water Process Engineering, 2022, 48, 102936.	2.6	1
61	Nitrous oxide and carbon dioxide emissions from two soils amended with different manure composts in aerobic incubation tests. Soil Science and Plant Nutrition, 0, , 1-14.	0.8	1
62	9th IWA symposium on waste management problems in agro-industries-AGRO'2014. Environmental Technology (United Kingdom), 2016, 37, 431-431.	1.2	0
63	Site selection for catch crop processing facilities. Letters in Spatial and Resource Sciences, 2017, 10, 1-15.	1.2	0
64	Sustainable future: Resource recovery and concentrate managementâ€"An introduction. Environmental Quality Management, 2021, 31, 5-7.	1.0	0
65	A Method of Estimatating The Probable Precipitation.. Suimon Mizu Shigen Gakkaishi, 2001, 14, 307-316.	0.1	0
66	NITROUS OXIDE AND CARBON DIOXIDE EMISSIONS FROM PADDY SOIL TREATED WITH RICE HUSK PRODUCTS AT DIFFERENT MOISTURE CONTENTS IN A SHORT-TERM EXPERIMENT. Journal of Environmental Science for Sustainable Society, 2015, 7, 9-15.	0.1	0
67	RNA Recovery Method Suitable for Analysis of Microbial Communities in Cattle Manure Composting Samples. Japanese Journal of Water Treatment Biology, 2015, 51, 1-9.	0.2	0
68	DISTRIBUTION CHARACTERISTICS OF SEDIMENT AND NUTRIENTS AROUND GROUPED RIVER GROYNES. Journal of Japan Society of Civil Engineers Ser B1 (Hydraulic Engineering), 2019, 75, I_973-I_978.	0.0	0
69	EXPERIMENTAL STUDY ON HYDRAULICÂPROPERTIES OF MANHOLES IN AÂSURCHARGED SEWER PIPE SYSTEM. Journal of Japan Society of Civil Engineers Ser A2 (Applied Mechanics (AM)), 2020, 76, I_451-I_460.	0.1	0
70	SIMULTANEOUS RECOVERY OF PHOSPHORUS AND POTASSIUM FROM BIOMASS AS MAGNESIUM SALT. Journal of Japan Society of Civil Engineers Ser G (Environmental Research), 2020, 76, III_181-III_187.	0.1	0
71	Economic Analysis of Sewage Sludge Composting on Regional Circular Economy Using Municipal Input-output Table. Journal of Japan Society on Water Environment, 2020, 43, 63-68.	0.1	0
72	FIELD INVESTIGATION OF STORMWATER FLOWS IN AN URBAN SEWER SYSTEM AND A RECEIVING STREAM. Journal of Japan Society of Civil Engineers Ser B1 (Hydraulic Engineering), 2020, 76, I_901-I_906.	0.0	0

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73	Implementation of a conductivity cell electrode as an ion chromatography detector. Analytical Methods, 2022, , .	1.3	0