

Kelly A Rusch

List of Publications by Year in descending order

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69
papers

1,197
citations

430754

18
h-index

434063

31
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69
all docs

69
docs citations

69
times ranked

1416
citing authors

#	ARTICLE	IF	CITATIONS
1	Use of Rhodamine Water Tracer in the Marshland Upwelling System. <i>Ground Water</i> , 2004, 42, 678-688.	0.7	120
2	The Effects of Plant Growth Substances and Mixed Cultures on Growth and Metabolite Production of Green Algae <i>Chlorella</i> sp.: A Review. <i>Journal of Plant Growth Regulation</i> , 2013, 32, 417-428.	2.8	92
3	Evaluation of polyhydroxybutyrate as a carbon source for recirculating aquaculture water denitrification. <i>Aquacultural Engineering</i> , 2012, 51, 36-43.	1.4	76
4	An assessment of long-term post-restoration water quality trends in a shallow, subtropical, urban hypereutrophic lake. <i>Ecological Engineering</i> , 2002, 19, 265-280.	1.6	63
5	Effect of organic carbon, C:N ratio and light on the growth and lipid productivity of microalgae/cyanobacteria coculture. <i>Engineering in Life Sciences</i> , 2014, 14, 47-56.	2.0	55
6	Design and Implementation of a Continuous Microwave Heating System for Ballast Water Treatment. <i>Environmental Science & Technology</i> , 2008, 42, 4121-4127.	4.6	46
7	Development of predictive models for determining enterococci levels at Gulf Coast beaches. <i>Water Research</i> , 2012, 46, 465-474.	5.3	43
8	Investigation of the light dynamics and their impact on algal growth rate in a hydraulically integrated serial turbidostat algal reactor (HISTAR). <i>Aquacultural Engineering</i> , 2006, 35, 122-134.	1.4	41
9	A portable fluorescent sensor for on-site detection of microalgae. <i>Microelectronic Engineering</i> , 2015, 144, 6-11.	1.1	37
10	Stabilized Phosphogypsum:Class C Fly Ash:Portland Type II Cement Composites for Potential Marine Application. <i>Environmental Science & Technology</i> , 2001, 35, 3967-3973.	4.6	35
11	Salinity and Soluble Organic Matter on Virus Sorption in Sand and Soil Columns. <i>Ground Water</i> , 2010, 48, 42-52.	0.7	33
12	Stabilization of phosphogypsum using class C fly ash and lime: assessment of the potential for marine applications. <i>Journal of Hazardous Materials</i> , 2002, 93, 167-186.	6.5	28
13	Anaerobic Biodegradation of Polyhydroxybutyrate in Municipal Sewage Sludge. <i>Journal of Environmental Engineering, ASCE</i> , 2010, 136, 709-718.	0.7	28
14	The development of a mechanistic model to investigate the impacts of the light dynamics on algal productivity in a Hydraulically Integrated Serial Turbidostat Algal Reactor (HISTAR). <i>Aquacultural Engineering</i> , 2007, 36, 198-211.	1.4	27
15	Modeling the major limitations on nitrification in floating-bead filters. <i>Aquacultural Engineering</i> , 1999, 20, 43-61.	1.4	26
16	Nitrification performance of a bubble-washed bead filter for combined solids removal and biological filtration in a recirculating aquaculture system. <i>Aquacultural Engineering</i> , 1999, 19, 105-117.	1.4	23
17	A hand-held fluorescent sensor platform for selectively estimating green algae and cyanobacteria biomass. <i>Sensors and Actuators B: Chemical</i> , 2018, 262, 938-946.	4.0	23
18	Development of a Model for Describing Accumulation of Color and Subsequent Destruction by Ozone in a Freshwater Recirculating Aquaculture System. <i>Journal of the World Aquaculture Society</i> , 2000, 31, 167-174.	1.2	22

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19	The hydraulically integrated serial turbidostat algal reactor (HISTAR) for microalgal production. <i>Aquacultural Engineering</i> , 2003, 27, 249-264.	1.4	22
20	Microalgal production using a hydraulically integrated serial turbidostat algal reactor (HISTAR): a conceptual model. <i>Aquacultural Engineering</i> , 1998, 18, 251-264.	1.4	21
21	Identification of Dynamic Leaching Kinetics of Stabilized, Water-Soluble Wastes. <i>Environmental Science & Technology</i> , 2004, 38, 603-608.	4.6	17
22	Aerobic Biodegradation of Polyhydroxybutyrate in Compost. <i>Environmental Engineering Science</i> , 2011, 28, 477-488.	0.8	17
23	Nitrogen removal from domestic wastewater using the marshland upwelling system. <i>Ecological Engineering</i> , 2006, 27, 22-36.	1.6	16
24	Kemp's Ridley Sea Turtle Waste Characterization Study: Precursor to a Recirculating Holding System Design. <i>Journal of the World Aquaculture Society</i> , 1990, 21, 137-144.	1.2	14
25	Performance Evaluation of a Marshland Upwelling System for the Removal of Fecal Coliform Bacteria from Domestic Wastewater. <i>Water Environment Research</i> , 2001, 73, 339-350.	1.3	14
26	Fecal Coliform Removal within a Marshland Upwelling System Consisting of Scatlake Soils. <i>Journal of Environmental Engineering, ASCE</i> , 2005, 131, 60-70.	0.7	14
27	Light irradiance and spectral distribution effects on microalgal bioreactors. <i>Engineering in Life Sciences</i> , 2014, 14, 574-580.	2.0	14
28	Modeling Fecal Coliform Bacteria Levels at Gulf Coast Beaches. <i>Water Quality, Exposure, and Health</i> , 2015, 7, 255-263.	1.5	14
29	An integrated system for microalgal and nursery seed clam culture. <i>Aquacultural Engineering</i> , 2000, 24, 15-31.	1.4	13
30	Escherichia coli Removal Efficacy of a Marshland Upwelling System. <i>Journal of Environmental Engineering, ASCE</i> , 2002, 128, 643-652.	0.7	13
31	Impact of light quality and quantity on growth rate kinetics of <i>Selenastrum capricornutum</i> . <i>Engineering in Life Sciences</i> , 2012, 12, 79-88.	2.0	13
32	Optimization of the lighting system for a Hydraulically Integrated Serial Turbidostat Algal Reactor (HISTAR): Economic implications. <i>Aquacultural Engineering</i> , 2009, 40, 45-53.	1.4	12
33	Development of a model for PHA-based denitrification in a packed bed reactor. <i>Aquacultural Engineering</i> , 2014, 60, 41-47.	1.4	11
34	Efficiency of <i>Artemia</i> Cysts Removal as a Model Invasive Spore Using a Continuous Microwave System with Heat Recovery. <i>Environmental Science & Technology</i> , 2008, 42, 9363-9369.	4.6	10
35	CBOD5 treatment using the marshland upwelling system. <i>Ecological Engineering</i> , 2010, 36, 548-559.	1.6	10
36	Effects of salinity on the microbial removal of nitrate under varying nitrogen inputs within the marshland upwelling system. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2012, 47, 1739-1748.	0.9	10

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37	Determination of Calcium Diffusion Coefficients as an Estimator of the Long-Term Dissolution Potential of Phosphogypsum:Cement:Lime Composites. <i>Environmental Science & Technology</i> , 1999, 33, 3185-3192.	4.6	9
38	Comparison of Three Culture Methods for the Intensive Culture of Northern Quahog Seed, <i>Mercenaria mercenaria</i> . <i>Journal of the World Aquaculture Society</i> , 2001, 32, 11-20.	1.2	8
39	Phosphorus treatment capability of the marshland upwelling system under low background salinity conditions. <i>Ecological Engineering</i> , 2007, 30, 250-263.	1.6	7
40	Coalescence phenomena in 1D silver nanostructures. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 295301.	0.7	7
41	Modeling system for predicting enterococci levels at Holly Beach. <i>Marine Environmental Research</i> , 2015, 109, 140-147.	1.1	7
42	The Effects of Seawater on the Dissolution Potential of Phosphogypsum:Cement Composites. <i>Environmental Engineering Science</i> , 1999, 16, 147-156.	0.8	6
43	Northern quahog, <i>Mercenaria mercenaria</i> , seed clam waste characterization study: precursor to a recirculating culture system design. <i>Aquacultural Engineering</i> , 1999, 20, 149-161.	1.4	6
44	Determination of Optimum Ingredients for Phosphogypsum Composite Stability under Marine Conditions-Response Surface Analysis with Process Variables. <i>Journal of Environmental Engineering, ASCE</i> , 2003, 129, 358-365.	0.7	6
45	Environmental Factors Influencing the Abundance of Enterococci in Gulf Coast Beach Waters. <i>Journal of Environmental Engineering, ASCE</i> , 2012, 138, 1130-1137.	0.7	6
46	Silver nanofiber assisted lipid extraction from biomass of a Louisiana <i>Chlorella vulgaris/Leptolyngbya</i> sp. co-culture. <i>Chemical Engineering Journal</i> , 2013, 225, 100-108.	6.6	6
47	Gene expression analysis of a Louisiana native <i>Chlorella vulgaris</i> (<i>Chlorophyta</i>)/ <i>Leptolyngbya</i> sp. (<i>Cyanobacteria</i>) co-culture using suppression subtractive hybridization. <i>Engineering in Life Sciences</i> , 2013, 13, 185-193.	2.0	6
48	A Continuous Microwave System For Prevention of Invasive Species During De-Ballasting Operation-Death Kinetics. <i>Journal of Microwave Power and Electromagnetic Energy</i> , 2007, 42, 61-78.	0.4	5
49	Application of the Fourier Method to Differentiate Biological Rhythms from Stochastic Processes in the Growth of <i>Selenastrum capricornutum</i> Printz: Implications for Model Development. <i>Journal of Applied Phycology</i> , 2008, 20, 103-111.	1.5	5
50	Impact of Salinity on MS-2 Sorption in Saturated Sand Columns—Fate and Transport Modeling. <i>Journal of Environmental Engineering, ASCE</i> , 2009, 135, 1041-1050.	0.7	5
51	Use of Electrical Stimulation in the Automatic Separation of Soft-Shell Crawfish. <i>Progressive Fish-Culturist</i> , 1993, 55, 114-120.	0.6	4
52	Phosphorus Treatment Capability of Marshland Upwelling System under High Background Salinity Conditions. <i>Journal of Environmental Engineering, ASCE</i> , 2007, 133, 1061-1071.	0.7	4
53	Impact of light quality on a native Louisiana <i>Chlorella vulgaris/Leptolyngbya</i> sp. co-culture. <i>Engineering in Life Sciences</i> , 2017, 17, 678-685.	2.0	4
54	Bench-Scale Evaluation of a Micro-Computer Automated Algal Turbidostat. <i>Journal of the World Aquaculture Society</i> , 1993, 24, 379-389.	1.2	3

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55	Preliminary Design of an Electrical Inhibition Gate for Application in an Automated Soft-Shell Crawfish Separation System. <i>Journal of Applied Aquaculture</i> , 1994, 4, 15-30.	0.7	3
56	Preliminary Evaluation of the Use of Phosphogypsum for Reef Substrate. li. A Study of the Effects of Phosphogypsum Exposure On Diversity and Biomass of Aquatic Organisms. <i>Chemistry and Ecology</i> , 1998, 14, 321-340.	0.6	3
57	Homogeneous detection of cyanobacterial DNA via polymerase chain reaction. <i>Letters in Applied Microbiology</i> , 2012, 55, 376-383.	1.0	3
58	A portable fluorescent sensing system using multiple LEDs. <i>Proceedings of SPIE</i> , 2017, , .	0.8	3
59	Performance of a commercial recirculating alligator production system employing a paddle-washed floating bead filter. <i>Aquacultural Engineering</i> , 1997, 16, 239-251.	1.4	2
60	Nutritional Properties of the Marine Rotifer <i>Brachionus plicatilis</i> Fed the Freshwater Microalgae <i>Selenastrum capricornutum</i> . <i>Journal of the World Aquaculture Society</i> , 2002, 33, 478-488.	1.2	2
61	An Analysis of Dielectric Properties of Synthetic Ballast Water at Frequencies Ranging from 300 to 3000 MHz. <i>Journal of Microwave Power and Electromagnetic Energy</i> , 2007, 42, 27-38.	0.4	2
62	S-STEM: ENG2 Scholars for Success 2007-2013. , 0, , .		1
63	Peer Mentoring: A Transitional Program to Improve Retention in the College of Engineering. , 0, , .		1
64	Generation and Management of Wastewater in an Alligator Farm. <i>Journal of Applied Aquaculture</i> , 1998, 8, 27-38.	0.7	0
65	Virus Sorption and Transport in Saturated Sediments as Influenced by Salinity and Soluble Organic Matter. , 2007, , .		0
66	Fecal Bacteria Removal and Background Recovery Within the Marshland Upwelling System. <i>Environmental Engineering Science</i> , 2009, 26, 1633-1641.	0.8	0
67	Phosphorus Dynamics in Coastal Sediments: Implications for the Marshland Upwelling System. <i>Proceedings of the Water Environment Federation</i> , 2010, 2010, 7008-7019.	0.0	0
68	Piloting an Innovative Bridge Camp at a Tribal College to Improve the Transition from High School to College. , 0, , .		0
69	Impacting the Success of Underrepresented Minorities at Louisiana State University: A Diversity Scholarship and Mentoring Partnership with ExxonMobil. , 0, , .		0