

Domenico Santoro

List of Publications by Year in descending order

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63
papers

1,559
citations

304743

22
h-index

315739

38
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66
all docs

66
docs citations

66
times ranked

1516
citing authors

#	ARTICLE	IF	CITATIONS
1	Peracetic acid-based advanced oxidation processes for decontamination and disinfection of water: A review. <i>Water Research</i> , 2021, 188, 116479.	11.3	284
2	Disinfection by-products formation during wastewater disinfection with peracetic acid. <i>Desalination</i> , 2007, 215, 177-186.	8.2	114
3	Low-temperature thermal pre-treatment of municipal wastewater sludge: Process optimization and effects on solubilization and anaerobic degradation. <i>Water Research</i> , 2017, 113, 111-123.	11.3	96
4	Kinetics of PAA Demand and its Implications on Disinfection of Wastewaters. <i>Water Quality Research Journal of Canada</i> , 2006, 41, 398-409.	2.7	66
5	Mechanistic modeling of vacuum UV advanced oxidation process in an annular photoreactor. <i>Water Research</i> , 2014, 64, 209-225.	11.3	58
6	Wastewater Disinfection by Peracetic Acid: Assessment of Models for Tracking Residual Measurements and Inactivation. <i>Water Environment Research</i> , 2007, 79, 775-787.	2.7	52
7	Modeling Hydroxyl Radical Distribution and Trialkyl Phosphates Oxidation in UV ² /H ₂ O ₂ Photoreactors Using Computational Fluid Dynamics. <i>Environmental Science & Technology</i> , 2010, 44, 6233-6241.	10.0	50
8	Inactivation of Murine Norovirus and Fecal Coliforms by Ferrate(VI) in Secondary Effluent Wastewater. <i>Environmental Science & Technology</i> , 2020, 54, 1878-1888.	10.0	49
9	Detailed modeling and advanced control for chemical disinfection of secondary effluent wastewater by peracetic acid. <i>Water Research</i> , 2019, 153, 251-262.	11.3	45
10	Disinfecting behaviour of peracetic acid for municipal wastewater reuse. <i>Desalination</i> , 2004, 168, 435-442.	8.2	42
11	Experimental assessment and validation of quantification methods for cellulose content in municipal wastewater and sludge. <i>Environmental Science and Pollution Research</i> , 2018, 25, 16743-16753.	5.3	38
12	Inactivation kinetics of antibiotic resistant <i>Escherichia coli</i> in secondary wastewater effluents by peracetic and performic acids. <i>Water Research</i> , 2020, 169, 115227.	11.3	38
13	Enzymatic pre-treatment for enhancement of primary sludge fermentation. <i>Bioresource Technology</i> , 2020, 305, 123071.	9.6	34
14	Nondeterministic Computational Fluid Dynamics Modeling of <i>Escherichia coli</i> Inactivation by Peracetic Acid in Municipal Wastewater Contact Tanks. <i>Environmental Science & Technology</i> , 2015, 49, 7265-7275.	10.0	33
15	Efficient removal of low-arsenic concentrations from drinking water by combined coagulation and adsorption processes. <i>Separation and Purification Technology</i> , 2015, 147, 284-291.	7.9	32
16	Nanoparticle scattering characterization and mechanistic modelling of UV ² /TiO ₂ photocatalytic reactors using computational fluid dynamics. <i>Water Research</i> , 2016, 88, 117-126.	11.3	31
17	The future of WRRF modelling – outlook and challenges. <i>Water Science and Technology</i> , 2019, 79, 3-14.	2.5	31
18	Fate of cellulose in primary and secondary treatment at municipal water resource recovery facilities. <i>Water Environment Research</i> , 2019, 91, 1479-1489.	2.7	29

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19	Organic carbon recovery modeling for a rotating belt filter and its impact assessment on a plant-wide scale. <i>Chemical Engineering Journal</i> , 2018, 334, 1965-1976.	12.7	27
20	Controlling micropollutants in tertiary municipal wastewater by O ₃ /H ₂ O ₂ , granular biofiltration and UV ₂₅₄ /H ₂ O ₂ for potable reuse applications. <i>Chemosphere</i> , 2020, 239, 124635.	8.2	25
21	Kinetics of UV [•] H ₂ O ₂ Advanced Oxidation in the Presence of Alcohols: The Role of Carbon Centered Radicals. <i>Environmental Science & Technology</i> , 2010, 44, 7827-7832.	10.0	24
22	Reusability of recovered iron coagulant from primary municipal sludge and its impact on chemically enhanced primary treatment. <i>Separation and Purification Technology</i> , 2020, 231, 115894.	7.9	24
23	Performic Acid Disinfection of Municipal Secondary Effluent Wastewater: Inactivation of Murine Norovirus, Fecal Coliforms, and Enterococci. <i>Environmental Science & Technology</i> , 2020, 54, 12761-12770.	10.0	24
24	Carbon and Phosphorus Removal from Primary Municipal Wastewater Using Recovered Aluminum. <i>Environmental Science & Technology</i> , 2017, 51, 12302-12309.	10.0	23
25	Current status of the rotating belt filtration (RBF) technology for municipal wastewater treatment. <i>Water Practice and Technology</i> , 2015, 10, 319-327.	2.0	22
26	Recent advances in energy recovery from wastewater sludge. , 2018, , 67-100.		21
27	Integrated fermentation and anaerobic digestion of primary sludges for simultaneous resource and energy recovery: Impact of volatile fatty acids recovery. <i>Waste Management</i> , 2020, 118, 341-349.	7.4	19
28	Detailed modeling of oxalic acid degradation by UV-TiO ₂ nanoparticles: Importance of light scattering and photoreactor scale-up. <i>Water Research</i> , 2017, 121, 361-373.	11.3	16
29	Low temperature nutrient removal from municipal wastewater by purple phototrophic bacteria (PPB). <i>Bioresource Technology</i> , 2019, 288, 121566.	9.6	16
30	A chemical, microbiological and (eco)toxicological scheme to understand the efficiency of UV-C/H ₂ O ₂ oxidation on antibiotic-related microcontaminants in treated urban wastewater. <i>Science of the Total Environment</i> , 2020, 744, 140835.	8.0	15
31	Municipal wastewater treatment by purple phototropic bacteria at low infrared irradiances using a photo-anaerobic membrane bioreactor. <i>Water Research</i> , 2020, 173, 115535.	11.3	15
32	Dynamic impact of cellulose and readily biodegradable substrate on oxygen transfer efficiency in sequencing batch reactors. <i>Water Research</i> , 2021, 190, 116724.	11.3	14
33	Effects of total suspended solids, particle size, and effluent temperature on the kinetics of peracetic acid decomposition in municipal wastewater. <i>Water Science and Technology</i> , 2019, 80, 2299-2309.	2.5	12
34	Mechanistic modeling of peracetic acid wastewater disinfection using computational fluid dynamics: Integrating solids settling with microbial inactivation kinetics. <i>Water Research</i> , 2021, 201, 117355.	11.3	10
35	A microsieve-based filtration process for combined sewer overflow treatment with nutrient control: Modeling and experimental studies. <i>Water Research</i> , 2020, 170, 115328.	11.3	9
36	Dynamic model validation and advanced polymer control for rotating belt filtration as primary treatment of domestic wastewaters. <i>Chemical Engineering Science</i> , 2020, 217, 115510.	3.8	8

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37	Engineered fractionation of primary solids – A comparison of primary treatments using rotating belt filters and primary clarifiers. Proceedings of the Water Environment Federation, 2015, 2015, 4950-4959.	0.0	8
38	Modeling virus transport and inactivation in a fluoropolymer tube UV photoreactor using Computational Fluid Dynamics. Chemical Engineering Journal, 2010, 161, 9-18.	12.7	7
39	Conceptualizing the sewage collection system for integrated sewer-WWTP modelling and optimization. Journal of Hydrology, 2019, 573, 710-716.	5.4	7
40	Application of QMRA to MAR operations for safe agricultural water reuses in coastal areas. Water Research X, 2020, 8, 100062.	6.1	7
41	Vacuum-enhanced anaerobic fermentation: Achieving process intensification, thickening and improved hydrolysis and VFA yields in a single treatment step. Water Research, 2022, 220, 118719.	11.3	7
42	Use of CFD for Wastewater Disinfection Process Analysis: E.coli Inactivation with Peroxyacetic Acid (PAA). International Journal of Chemical Reactor Engineering, 2005, 3, .	1.1	6
43	Numerical modeling and control of solids separation using continuously moving fine mesh filters. Chemical Engineering Science, 2019, 195, 881-893.	3.8	6
44	A numerical approach for determining the resistance of fine mesh filters. Transactions of the Canadian Society for Mechanical Engineering, 2019, 43, 221-229.	0.8	6
45	Oxygen transfer and plant-wide energy assessment of primary screening in WRRFs. Water Environment Research, 2021, 93, 677-692.	2.7	6
46	Enhancing sludge dewaterability and phosphate removal through a novel chemical dosing strategy using ferric chloride and hydrogen peroxide. Water Environment Research, 2021, 93, 232-240.	2.7	6
47	Rotating Belt Filters as Enabling Technology for Energy-Neutral Wastewater Treatment Plants: Current Status and Applications. Proceedings of the Water Environment Federation, 2015, 2015, 1743-1749.	0.0	6
48	Optimal integration of vacuum UV with granular biofiltration for advanced wastewater treatment: Impact of process sequence on CECs removal and microbial ecology. Water Research, 2022, 220, 118638.	11.3	5
49	Combined physico-chemical treatment of secondary settled municipal wastewater in a multifunctional reactor. Water Science and Technology, 2013, 68, 1715-1722.	2.5	4
50	Detailed modeling of solids separation by microsieving in a rotating belt filter: Explicit effect of particle size, mesh size, and polymer dose. Separation and Purification Technology, 2021, 269, 118777.	7.9	4
51	Kinetics of aerobic cellulose degradation in raw municipal wastewater. Science of the Total Environment, 2022, 802, 149852.	8.0	4
52	Understanding Primary Treatment Performance and Carbon Diversion Potential of Rotating Belt Filters Using Computational Fluid Dynamics. Proceedings of the Water Environment Federation, 2015, 2015, 1249-1262.	0.0	4
53	Dynamic Modeling of Rotating Belt Filters Enables Design Exploration and Advanced Sizing With Varying Influent Conditions. Proceedings of the Water Environment Federation, 2016, 2016, 1158-1168.	0.0	4
54	Influence of substrates concentrations on the dynamics of oxygen demand and aeration performance in ideal bioreactors. Chemical Engineering Research and Design, 2021, 153, 339-353.	5.6	3

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55	Uncertainty analysis of rising sewer models with respect to input parameters and model structure using Monte Carlo simulations and computational fluid dynamics. <i>Water Science and Technology</i> , 2021, 83, 2486-2503.	2.5	2
56	Wastewater Disinfection Using Peracetic Acid: Innovative Process Design, Optimization, and Control. <i>Proceedings of the Water Environment Federation</i> , 2016, 2016, 4722-4731.	0.0	2
57	Wastewater Disinfection by PAA: Relating Residual Measurements and Inactivation. <i>Proceedings of the Water Environment Federation</i> , 2005, 2005, 468-485.	0.0	1
58	Experimental assessment of RSF, UF, RSF-O3 and RSF-H2O2/UV for unrestricted agricultural wastewater reuse in Italy. <i>Water Practice and Technology</i> , 2013, 8, 70-82.	2.0	1
59	Quantifying ultraviolet inactivation kinetics in nearly opaque fluids. <i>Water Quality Research Journal of Canada</i> , 2015, 50, 34-46.	2.7	1
60	Understanding and Optimizing Peracetic Acid Disinfection Processes Using Computational Fluid Dynamics: The Case Study of Nocera (Italy) Wastewater Treatment Plant. <i>Lecture Notes in Civil Engineering</i> , 2017, , 706-712.	0.4	1
61	An Empirical Model for Carbon Recovery in a Rotating Belt Filter and Its Application in the Frame of Plantwide Evaluation. <i>Lecture Notes in Civil Engineering</i> , 2017, , 30-36.	0.4	1
62	CFD MODELING OF MUNICIPAL WASTEWATER DISINFECTION BY PERACETIC ACID (PAA) IN CONTINUOUS FLOW SERPENTINE REACTORS. <i>Proceedings of the Water Environment Federation</i> , 2007, 2007, 434-448.	0.0	0
63	Non-Deterministic CFD Modelling of Peracetic Acid Disinfection in Contact Tanks. <i>Proceedings of the Water Environment Federation</i> , 2013, 2013, 401-404.	0.0	0