

Luigi Rizzo

List of Publications by Citations

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105
papers

7,855
citations

44
h-index

88
g-index

112
ext. papers

9,171
ext. citations

8.7
avg, IF

6.38
L-index

#	Paper	IF	Citations
105	Urban wastewater treatment plants as hotspots for antibiotic resistant bacteria and genes spread into the environment: a review. <i>Science of the Total Environment</i> , 2013 , 447, 345-60	10.2	1383
104	Urban wastewater treatment plants as hotspots for the release of antibiotics in the environment: a review. <i>Water Research</i> , 2013 , 47, 957-95	12.5	1189
103	Consolidated vs new advanced treatment methods for the removal of contaminants of emerging concern from urban wastewater. <i>Science of the Total Environment</i> , 2019 , 655, 986-1008	10.2	319
102	Bioassays as a tool for evaluating advanced oxidation processes in water and wastewater treatment. <i>Water Research</i> , 2011 , 45, 4311-40	12.5	279
101	Degradation of fifteen emerging contaminants at microg L(-1) initial concentrations by mild solar photo-Fenton in MWTP effluents. <i>Water Research</i> , 2010 , 44, 545-54	12.5	264
100	Performance of secondary wastewater treatment methods for the removal of contaminants of emerging concern implicated in crop uptake and antibiotic resistance spread: A review. <i>Science of the Total Environment</i> , 2019 , 648, 1052-1081	10.2	227
99	Review on endocrine disrupting-emerging compounds in urban wastewater: occurrence and removal by photocatalysis and ultrasonic irradiation for wastewater reuse. <i>Desalination</i> , 2007 , 215, 166-176	10.3	222
98	Degradation of diclofenac by TiO ₂ photocatalysis: UV absorbance kinetics and process evaluation through a set of toxicity bioassays. <i>Water Research</i> , 2009 , 43, 979-88	12.5	210
97	Heterogenous photocatalytic degradation kinetics and detoxification of an urban wastewater treatment plant effluent contaminated with pharmaceuticals. <i>Water Research</i> , 2009 , 43, 4070-8	12.5	186
96	Effect of solar simulated N-doped TiO ₂ photocatalysis on the inactivation and antibiotic resistance of an E. coli strain in biologically treated urban wastewater. <i>Applied Catalysis B: Environmental</i> , 2014 , 144, 369-378	21.8	143
95	Cu-doped ZnO as efficient photocatalyst for the oxidation of arsenite to arsenate under visible light. <i>Applied Catalysis B: Environmental</i> , 2018 , 238, 471-479	21.8	126
94	Disinfection of urban wastewater by solar driven and UV lamp - TiO ₂ photocatalysis: effect on a multi drug resistant Escherichia coli strain. <i>Water Research</i> , 2014 , 53, 145-52	12.5	121
93	Antibiotic resistance genes in treated wastewater and in the receiving water bodies: A pan-European survey of urban settings. <i>Water Research</i> , 2019 , 162, 320-330	12.5	117
92	Antibiotic resistance spread potential in urban wastewater effluents disinfected by UV/H ₂ O ₂ process. <i>Science of the Total Environment</i> , 2016 , 560-561, 29-35	10.2	100
91	Endocrine disruptors compounds, pharmaceuticals and personal care products in urban wastewater: implications for agricultural reuse and their removal by adsorption process. <i>Environmental Science and Pollution Research</i> , 2013 , 20, 3616-28	5.1	98
90	Inactivation and regrowth of multidrug resistant bacteria in urban wastewater after disinfection by solar-driven and chlorination processes. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2015 , 148, 43-50	6.7	96
89	Advanced treatment of urban wastewater by UV radiation: Effect on antibiotics and antibiotic-resistant E. coli strains. <i>Chemosphere</i> , 2013 , 92, 171-6	8.4	92

88	Urban wastewater disinfection for agricultural reuse: effect of solar driven AOPs in the inactivation of a multidrug resistant E. coli strain. <i>Applied Catalysis B: Environmental</i> , 2015 , 178, 65-73	21.8	92
87	Removal of methylene blue in a photocatalytic reactor using polymethylmethacrylate supported TiO ₂ nanofilm. <i>Desalination</i> , 2007 , 211, 1-9	10.3	92
86	Pre-treatment of olive mill wastewater by chitosan coagulation and advanced oxidation processes. <i>Separation and Purification Technology</i> , 2008 , 63, 648-653	8.3	92
85	Best available technologies and treatment trains to address current challenges in urban wastewater reuse for irrigation of crops in EU countries. <i>Science of the Total Environment</i> , 2020 , 710, 136312	10.2	86
84	Vancomycin resistant enterococci: from the hospital effluent to the urban wastewater treatment plant. <i>Science of the Total Environment</i> , 2013 , 450-451, 155-61	10.2	85
83	Photocatalytic activity of a visible light active structured photocatalyst developed for municipal wastewater treatment. <i>Journal of Cleaner Production</i> , 2018 , 175, 38-49	10.3	80
82	Effect of photocatalysis on the transfer of antibiotic resistance genes in urban wastewater. <i>Catalysis Today</i> , 2015 , 240, 55-60	5.3	78
81	β-lactams resistance gene quantification in an antibiotic resistant Escherichia coli water suspension treated by advanced oxidation with UV/HO. <i>Journal of Hazardous Materials</i> , 2017 , 323, 426-433	12.8	73
80	Tertiary treatment of urban wastewater by solar and UV-C driven advanced oxidation with peracetic acid: Effect on contaminants of emerging concern and antibiotic resistance. <i>Water Research</i> , 2019 , 149, 272-281	12.5	71
79	Coagulation/chlorination of surface water: A comparison between chitosan and metal salts. <i>Separation and Purification Technology</i> , 2008 , 62, 79-85	8.3	69
78	Enhanced photocatalytic hydrogen production from glucose aqueous matrices on Ru-doped LaFeO ₃ . <i>Applied Catalysis B: Environmental</i> , 2017 , 207, 182-194	21.8	67
77	High Throughput Analysis of Integron Gene Cassettes in Wastewater Environments. <i>Environmental Science & Technology</i> , 2016 , 50, 11825-11836	10.3	59
76	Production of hydrogen from glucose by LaFeO ₃ based photocatalytic process during water treatment. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 959-966	6.7	57
75	Advanced oxidation of catechol: A comparison among photocatalysis, Fenton and photo-Fenton processes. <i>Desalination</i> , 2009 , 249, 878-883	10.3	57
74	Application of oxidative removal of NOM to drinking water and formation of disinfection by-products. <i>Desalination</i> , 2005 , 176, 155-166	10.3	57
73	Enhanced photocatalytic oxidation of arsenite to arsenate in water solutions by a new catalyst based on MoO _x supported on TiO ₂ . <i>Applied Catalysis B: Environmental</i> , 2014 , 160-161, 247-253	21.8	56
72	Inactivation and injury of total coliform bacteria after primary disinfection of drinking water by TiO ₂ photocatalysis. <i>Journal of Hazardous Materials</i> , 2009 , 165, 48-51	12.8	56
71	Solar light-induced photoelectrocatalytic degradation of bisphenol-A on TiO ₂ /ITO film anode and BDD cathode. <i>Catalysis Today</i> , 2013 , 209, 74-78	5.3	55

70	Evaluation of operating parameters involved in solar photo-Fenton treatment of wastewater: Interdependence of initial pollutant concentration, temperature and iron concentration. <i>Applied Catalysis B: Environmental</i> , 2010 , 97, 292-298	21.8	55
69	Advanced treatment of urban wastewater by sand filtration and graphene adsorption for wastewater reuse: Effect on a mixture of pharmaceuticals and toxicity. <i>Journal of Environmental Chemical Engineering</i> , 2015 , 3, 122-128	6.8	54
68	Cross-Contamination of Residual Emerging Contaminants and Antibiotic Resistant Bacteria in Lettuce Crops and Soil Irrigated with Wastewater Treated by Sunlight/H ₂ O ₂ . <i>Environmental Science & Technology</i> , 2015 , 49, 11096-104	10.3	52
67	Inactivation and injury assessment of Escherichia coli during solar and photocatalytic disinfection in LDPE bags. <i>Chemosphere</i> , 2011 , 85, 1160-6	8.4	50
66	Effect of solar photo-Fenton process in raceway pond reactors at neutral pH on antibiotic resistance determinants in secondary treated urban wastewater. <i>Journal of Hazardous Materials</i> , 2019 , 378, 120737	12.8	49
65	Comparison between heterogeneous and homogeneous solar driven advanced oxidation processes for urban wastewater treatment: Pharmaceuticals removal and toxicity. <i>Separation and Purification Technology</i> , 2020 , 236, 116249	8.3	49
64	Limitations and Prospects for Wastewater Treatment by UV and Visible-Light-Active Heterogeneous Photocatalysis: A Critical Review. <i>Topics in Current Chemistry</i> , 2019 , 378, 7	7.2	48
63	Photocatalytic hydrogen production from degradation of glucose over fluorinated and platinized TiO ₂ catalysts. <i>Journal of Catalysis</i> , 2016 , 339, 47-56	7.3	47
62	Surface water disinfection by chlorination and advanced oxidation processes: Inactivation of an antibiotic resistant E. coli strain and cytotoxicity evaluation. <i>Science of the Total Environment</i> , 2016 , 554-555, 1-6	10.2	45
61	Hydrogen production from glucose degradation in water and wastewater treated by Ru-LaFeO ₃ /Fe ₂ O ₃ magnetic particles photocatalysis and heterogeneous photo-Fenton. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 2184-2196	6.7	44
60	Removal of THM precursors from a high-alkaline surface water by enhanced coagulation and behaviour of THMFP toxicity on D. magna. <i>Desalination</i> , 2005 , 176, 177-188	10.3	42
59	Proposed EU minimum quality requirements for water reuse in agricultural irrigation and aquifer recharge: SCHEER scientific advice. <i>Current Opinion in Environmental Science and Health</i> , 2018 , 2, 7-11	8.1	38
58	DBPs formation and toxicity monitoring in different origin water treated by ozone and alum/PAC coagulation. <i>Desalination</i> , 2007 , 210, 31-43	10.3	36
57	Antibiotic contaminated water treated by photo driven advanced oxidation processes: Ultraviolet/H ₂ O ₂ vs ultraviolet/peracetic acid. <i>Journal of Cleaner Production</i> , 2018 , 205, 67-75	10.3	36
56	Disinfection of urban wastewater by a new photo-Fenton like process using Cu-iminodisuccinic acid complex as catalyst at neutral pH. <i>Water Research</i> , 2018 , 146, 206-215	12.5	35
55	Visible light active N-doped TiO ₂ immobilized on polystyrene as efficient system for wastewater treatment. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017 , 348, 255-262	4.7	35
54	Impact of industrial wastewater on the dynamics of antibiotic resistance genes in a full-scale urban wastewater treatment plant. <i>Science of the Total Environment</i> , 2019 , 646, 1204-1210	10.2	32
53	Effect of solar radiation on multidrug resistant E. coli strains and antibiotic mixture photodegradation in wastewater polluted stream. <i>Science of the Total Environment</i> , 2012 , 427-428, 263-8	10.2	31

52	Advanced treatment of urban wastewater by UV-C/free chlorine process: Micro-pollutants removal and effect of UV-C radiation on trihalomethanes formation. <i>Water Research</i> , 2020 , 169, 115220	12.5	30
51	Changes in Antibiotic Resistance Gene Levels in Soil after Irrigation with Treated Wastewater: A Comparison between Heterogeneous Photocatalysis and Chlorination. <i>Environmental Science & Technology</i> , 2020 , 54, 7677-7686	10.3	29
50	Inactivation of Escherichia coli and Enterococci in urban wastewater by sunlight/PAA and sunlight/H ₂ O ₂ processes. <i>Chemical Engineering Research and Design</i> , 2016 , 104, 178-184	5.5	28
49	Contaminants of emerging concern removal from real wastewater by UV/free chlorine process: A comparison with solar/free chlorine and UV/HO at pilot scale. <i>Chemosphere</i> , 2019 , 236, 124354	8.4	28
48	MoOx/TiO ₂ immobilized on quartz support as structured catalyst for the photocatalytic oxidation of As(III) to As(V) in aqueous solutions. <i>Chemical Engineering Research and Design</i> , 2016 , 109, 190-199	5.5	27
47	Removal of carbamazepine, diclofenac and trimethoprim by solar driven advanced oxidation processes in a compound triangular collector based reactor: A comparison between homogeneous and heterogeneous processes. <i>Chemosphere</i> , 2020 , 238, 124665	8.4	27
46	Simultaneous Production of CH ₄ and H ₂ from Photocatalytic Reforming of Glucose Aqueous Solution on Sulfated Pd-TiO ₂ Catalysts. <i>Oil and Gas Science and Technology</i> , 2015 , 70, 891-902	1.9	26
45	Olive Mill and Winery Wastewaters Pre-Treatment by Coagulation with Chitosan. <i>Separation Science and Technology</i> , 2010 , 45, 2447-2452	2.5	26
44	Removal of arsenic from drinking water by photo-catalytic oxidation on MoOx/TiO ₂ and adsorption on Al ₂ O ₃ . <i>Journal of Chemical Technology and Biotechnology</i> , 2016 , 91, 88-95	3.5	21
43	COST Action ES1403: new and emerging challenges and opportunities in wastewater reuse (NEREUS). <i>Environmental Science and Pollution Research</i> , 2015 , 22, 7183-6	5.1	20
42	Ozone oxidation and aerobic biodegradation with spent mushroom compost for detoxification and benzo(a)pyrene removal from contaminated soil. <i>Chemosphere</i> , 2012 , 87, 595-601	8.4	19
41	Phosphorus Recovery from Urban Wastewater Treatment Plant Sludge Liquor by Ion Exchange. <i>Separation Science and Technology</i> , 2012 , 47, 613-620	2.5	19
40	Immobilised Cerium-Doped Zinc Oxide as a Photocatalyst for the Degradation of Antibiotics and the Inactivation of Antibiotic-Resistant Bacteria. <i>Catalysts</i> , 2019 , 9, 222	4	18
39	Optimization of analytical methods for the determination of DBPs: Application to drinking waters from Greece and Italy. <i>Desalination</i> , 2005 , 176, 25-36	10.3	18
38	Food Azo-Dyes Removal from Water by Heterogeneous Photo-Fenton with LaFeO ₃ Supported on Honeycomb Corundum Monoliths. <i>Journal of Environmental Engineering, ASCE</i> , 2015 , 141, 04015038	2	16
37	A comparative evaluation of ozonation and heterogeneous photocatalytic oxidation processes for reuse of secondary treated urban wastewater. <i>Desalination and Water Treatment</i> , 2014 , 52, 1414-1421		16
36	Combination of flow cytometry and molecular analysis to monitor the effect of UVC/HO vs UVC/HO/Cu-IDS processes on pathogens and antibiotic resistant genes in secondary wastewater effluents. <i>Water Research</i> , 2020 , 184, 116194	12.5	16
35	Nonylphenol deca-ethoxylate removal from wastewater by UV/H ₂ O ₂ : Degradation kinetics and toxicity effects. <i>Chemical Engineering Research and Design</i> , 2019 , 124, 1-7	5.5	15

34	PAHs contaminated soils remediation by ozone oxidation. <i>Desalination and Water Treatment</i> , 2010 , 23, 161-172		15
33	Simulating the fate of indigenous antibiotic resistant bacteria in a mild slope wastewater polluted stream. <i>Journal of Environmental Sciences</i> , 2018 , 69, 95-104	6.4	14
32	Inactivation of an urban wastewater indigenous strain by cerium doped zinc oxide photocatalysis.. <i>RSC Advances</i> , 2018 , 8, 26124-26132	3.7	14
31	Advanced Oxidation Processes for the Removal of Food Dyes in Wastewater. <i>Current Organic Chemistry</i> , 2017 , 21, 1068-1073	1.7	13
30	Impact of disinfection processes on bacterial community in urban wastewater: Should we rethink microbial assessment methods?. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 104393	6.8	13
29	Intensification of ceftriaxone degradation under UV and solar light irradiation in presence of phosphors based structured catalyst. <i>Chemical Engineering and Processing: Process Intensification</i> , 2019 , 137, 12-21	3.7	12
28	Application of photocatalysis as a post treatment method of a heterotrophic-autotrophic denitrification reactor effluent. <i>Chemosphere</i> , 2008 , 72, 1706-11	8.4	12
27	Regrowth evaluation of coliform bacteria injured by low chlorine doses using selective and nonselective media. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2004 , 39, 2081-92	2.3	12
26	Comparing TiO photocatalysis and UV-C radiation for inactivation and mutant formation of Salmonella typhimurium TA102. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 1871-1879	5.1	11
25	Simultaneous removal of contaminants of emerging concern and pathogens from urban wastewater by homogeneous solar driven advanced oxidation processes. <i>Science of the Total Environment</i> , 2021 , 766, 144320	10.2	11
24	Activation of solgel titanium nanofilm by UV illumination for NOM removal. <i>Water Science and Technology</i> , 2007 , 55, 113-8	2.2	9
23	Review of aminopolycarboxylic acidsBased metal complexes application to water and wastewater treatment by (photo-)Fenton process at neutral pH. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2021 , 28, 100451	7.9	9
22	Visible light driven oxidation of arsenite to arsenate in aqueous solution using Cu-doped ZnO supported on polystyrene pellets. <i>Catalysis Today</i> , 2021 , 361, 69-76	5.3	9
21	Multi-barrier treatment of mature landfill leachate: effect of Fenton oxidation and air stripping on activated sludge process and cost analysis. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 104444	6.8	7
20	Sunlight advanced oxidation processes vs ozonation for wastewater disinfection and safe reclamation. <i>Science of the Total Environment</i> , 2021 , 787, 147531	10.2	6
19	Two-phase anaerobic digestion of partially acidified sewage sludge: a pilot plant study for safe sludge disposal in developing countries. <i>Environmental Technology (United Kingdom)</i> , 2012 , 33, 2089-95	2.6	5
18	Cationic Dye Degradation and Real Textile Wastewater Treatment by Heterogeneous Photo-Fenton, Using a Novel Natural Catalyst. <i>Catalysts</i> , 2021 , 11, 1358	4	5
17	Limitations and Prospects for Wastewater Treatment by UV and Visible-Light-Active Heterogeneous Photocatalysis: A Critical Review. <i>Topics in Current Chemistry Collections</i> , 2020 , 225-264	1.8	5

16	Removal of Xenobiotic Compounds from Water and Wastewater by Advanced Oxidation Processes. <i>Environmental Pollution</i> , 2010 , 387-412	0	4
15	Comparison of Photocatalytic Activities of Commercial Titanium Dioxide Powders Immobilised on Glass Substrates. <i>Journal of Advanced Oxidation Technologies</i> , 2010 , 13,		4
14	Solar photo-Fenton at circumneutral pH using Fe(III)-EDDS compared to ozonation for tertiary treatment of urban wastewater: Contaminants of emerging concern removal and toxicity assessment. <i>Chemical Engineering Journal</i> , 2021 , 431, 133474	14.7	4
13	Organic THMs precursors removal from surface water with low TOC and high alkalinity by enhanced coagulation. <i>Water Science and Technology: Water Supply</i> , 2004 , 4, 103-111	1.4	4
12	Disinfection of roof harvested rainwater inoculated with E. coli and Enterococcus and post-treatment bacterial regrowth: Conventional vs solar driven advanced oxidation processes. <i>Science of the Total Environment</i> , 2021 , 801, 149763	10.2	4
11	Potential reuse of a leather tanning and an urban wastewater treatment plant effluent in Italy. <i>International Journal of Environment and Pollution</i> , 2006 , 28, 100	0.7	3
10	Fe ³⁺ -IDS as a new green catalyst for water treatment by photo-Fenton process at neutral pH. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 106802	6.8	3
9	Life cycle assessment of sequential and simultaneous combination of electrocoagulation and ozonation for textile wastewater treatment. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 106251	6.8	3
8	The Contribution of the Coagulation Process in Controlling Microbial Risk and Disinfection By-products Formation in Drinking Water 2014 , 219-238		2
7	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	0.3	1
6	Effect of the aqueous matrix on the inactivation of E. coli by permaleic acid. <i>Science of the Total Environment</i> , 2021 , 767, 144395	10.2	1
5	Simultaneous disinfection and microcontaminants elimination of urban wastewater secondary effluent by solar advanced oxidation sequential treatment at pilot scale.. <i>Journal of Hazardous Materials</i> , 2022 , 436, 129134	12.8	1
4	Thirty contaminants of emerging concern identified in secondary treated hospital wastewater and their removal by solar Fenton (like) and sulphate radicals-based advanced oxidation processes. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 106614	6.8	0
3	Progress in Nanomaterials Applications for Water Purification 2017 , 1-24		0
2	Combination of foam fractionation and photo-Fenton like processes for greywater treatment. <i>Separation and Purification Technology</i> , 2022 , 121114	8.3	0
1	Assessment of a novel microalgae-cork based technology for removing antibiotics, pesticides and nitrates from groundwater.. <i>Chemosphere</i> , 2022 , 134777	8.4	0