Luigi Rizzo

List of Publications by Year in Descending Order

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	Combination of foam fractionation and photo-Fenton like processes for greywater treatment. *Separation and Purification Technology*, **2022**, 121114	8.3	0
104	Simultaneous disinfection and microcontaminants elimination of urban wastewater secondary effluent by solar advanced oxidation sequential treatment at pilot scale.. *Journal of Hazardous Materials*, **2022**, 436, 129134	12.8	1
103	Assessment of a novel microalgae-cork based technology for removing antibiotics, pesticides and nitrates from groundwater.. *Chemosphere*, **2022**, 134777	8.4	0
102	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. *Chemical Engineering Journal*, **2021**, 431, 133474	14.7	4
101	Cationic Dye Degradation and Real Textile Wastewater Treatment by Heterogeneous Photo-Fenton, Using a Novel Natural Catalyst. *Catalysts*, **2021**, 11, 1358	4	5
100	Fe3+- IDS as a new green catalyst for water treatment by photo-Fenton process at neutral pH. *Journal of Environmental Chemical Engineering*, **2021**, 9, 106802	6.8	3
99	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. *Journal of Environmental Chemical Engineering*, **2021**, 9, 106614	6.8	0
98	Simultaneous removal of contaminants of emerging concern and pathogens from urban wastewater by homogeneous solar driven advanced oxidation processes. *Science of the Total Environment*, **2021**, 766, 144320	10.2	11
97	Review of aminopolycarboxylic acids-based metal complexes application to water and wastewater treatment by (photo-)Fenton process at neutral pH. *Current Opinion in Green and Sustainable Chemistry*, **2021**, 28, 100451	7.9	9
96	Effect of the aqueous matrix on the inactivation of E. coli by permaleic acid. *Science of the Total Environment*, **2021**, 767, 144395	10.2	1
95	Visible light driven oxidation of arsenite to arsenate in aqueous solution using Cu-doped ZnO supported on polystyrene pellets. *Catalysis Today*, **2021**, 361, 69-76	5.3	9
94	Sunlight advanced oxidation processes vs ozonation for wastewater disinfection and safe reclamation. *Science of the Total Environment*, **2021**, 787, 147531	10.2	6
93	Life cycle assessment of sequential and simultaneous combination of electrocoagulation and ozonation for textile wastewater treatment. *Journal of Environmental Chemical Engineering*, **2021**, 9, 106251	6.8	3
92	Disinfection of roof harvested rainwater inoculated with E. coli and Enterococcus and post-treatment bacterial regrowth: Conventional vs solar driven advanced oxidation processes. *Science of the Total Environment*, **2021**, 801, 149763	10.2	4
91	Changes in Antibiotic Resistance Gene Levels in Soil after Irrigation with Treated Wastewater: A Comparison between Heterogeneous Photocatalysis and Chlorination. *Environmental Science & Technology*, **2020**, 54, 7677-7686	10.3	29
90	Limitations and Prospects for Wastewater Treatment by UV and Visible-Light-Active Heterogeneous Photocatalysis: A Critical Review. *Topics in Current Chemistry Collections*, **2020**, 225-264	1.8	5
89	Comparison between heterogeneous and homogeneous solar driven advanced oxidation processes for urban wastewater treatment: Pharmaceuticals removal and toxicity. *Separation and Purification Technology*, **2020**, 236, 116249	8.3	49

88	Best available technologies and treatment trains to address current challenges in urban wastewater reuse for irrigation of crops in EU countries. *Science of the Total Environment*, **2020**, 710, 136312	10.2	86
87	Impact of disinfection processes on bacterial community in urban wastewater: Should we rethink microbial assessment methods?. *Journal of Environmental Chemical Engineering*, **2020**, 8, 104393	6.8	13
86	Multi-barrier treatment of mature landfill leachate: effect of Fenton oxidation and air stripping on activated sludge process and cost analysis. *Journal of Environmental Chemical Engineering*, **2020**, 8, 104444	6.8	7
85	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. *Water Research*, **2020**, 184, 116194	12.5	16
84	Advanced treatment of urban wastewater by UV-C/free chlorine process: Micro-pollutants removal and effect of UV-C radiation on trihalomethanes formation. *Water Research*, **2020**, 169, 115220	12.5	30
83	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. *Chemosphere*, **2020**, 238, 124665	8.4	27
82	Intensification of ceftriaxone degradation under UV and solar light irradiation in presence of phosphors based structured catalyst. *Chemical Engineering and Processing: Process Intensification*, **2019**, 137, 12-21	3.7	12
81	Antibiotic resistance genes in treated wastewater and in the receiving water bodies: A pan-European survey of urban settings. *Water Research*, **2019**, 162, 320-330	12.5	117
80	Effect of solar photo-Fenton process in raceway pond reactors at neutral pH on antibiotic resistance determinants in secondary treated urban wastewater. *Journal of Hazardous Materials*, **2019**, 378, 120737	12.8	49
79	Immobilised Cerium-Doped Zinc Oxide as a Photocatalyst for the Degradation of Antibiotics and the Inactivation of Antibiotic-Resistant Bacteria. *Catalysts*, **2019**, 9, 222	4	18
78	Nonylphenol deca-ethoxylate removal from wastewater by UV/H2O2: Degradation kinetics and toxicity effects. *Chemical Engineering Research and Design*, **2019**, 124, 1-7	5.5	15
77	Impact of industrial wastewater on the dynamics of antibiotic resistance genes in a full-scale urban wastewater treatment plant. *Science of the Total Environment*, **2019**, 646, 1204-1210	10.2	32
76	Performance of secondary wastewater treatment methods for the removal of contaminants of emerging concern implicated in crop uptake and antibiotic resistance spread: A review. *Science of the Total Environment*, **2019**, 648, 1052-1081	10.2	227
75	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. *Chemosphere*, **2019**, 236, 124354	8.4	28
74	Limitations and Prospects for Wastewater Treatment by UV and Visible-Light-Active Heterogeneous Photocatalysis: A Critical Review. *Topics in Current Chemistry*, **2019**, 378, 7	7.2	48
73	Consolidated vs new advanced treatment methods for the removal of contaminants of emerging concern from urban wastewater. *Science of the Total Environment*, **2019**, 655, 986-1008	10.2	319
72	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. *Water Research*, **2019**, 149, 272-281	12.5	71
71	Proposed EU minimum quality requirements for water reuse in agricultural irrigation and aquifer recharge: SCHEER scientific advice. *Current Opinion in Environmental Science and Health*, **2018**, 2, 7-11	8.1	38

70	Hydrogen production from glucose degradation in water and wastewater treated by Ru-LaFeO3/Fe2O3 magnetic particles photocatalysis and heterogeneous photo-Fenton. *International Journal of Hydrogen Energy*, **2018**, 43, 2184-2196	6.7	44
69	Simulating the fate of indigenous antibiotic resistant bacteria in a mild slope wastewater polluted stream. *Journal of Environmental Sciences*, **2018**, 69, 95-104	6.4	14
68	Inactivation of an urban wastewater indigenous strain by cerium doped zinc oxide photocatalysis.. *RSC Advances*, **2018**, 8, 26124-26132	3.7	14
67	Cu-doped ZnO as efficient photocatalyst for the oxidation of arsenite to arsenate under visible light. *Applied Catalysis B: Environmental*, **2018**, 238, 471-479	21.8	126
66	Disinfection of urban wastewater by a new photo-Fenton like process using Cu-iminodisuccinic acid complex as catalyst at neutral pH. *Water Research*, **2018**, 146, 206-215	12.5	35
65	Photocatalytic activity of a visible light active structured photocatalyst developed for municipal wastewater treatment. *Journal of Cleaner Production*, **2018**, 175, 38-49	10.3	80
64	Antibiotic contaminated water treated by photo driven advanced oxidation processes: Ultraviolet/H2O2 vs ultraviolet/peracetic acid. *Journal of Cleaner Production*, **2018**, 205, 67-75	10.3	36
63	-lactams resistance gene quantification in an antibiotic resistant Escherichia coli water suspension treated by advanced oxidation with UV/HO. *Journal of Hazardous Materials*, **2017**, 323, 426-433	12.8	73
62	Enhanced photocatalytic hydrogen production from glucose aqueous matrices on Ru-doped LaFeO3. *Applied Catalysis B: Environmental*, **2017**, 207, 182-194	21.8	67
61	Visible light active N-doped TiO2 immobilized on polystyrene as efficient system for wastewater treatment. *Journal of Photochemistry and Photobiology A: Chemistry*, **2017**, 348, 255-262	4.7	35
60	Comparing TiO photocatalysis and UV-C radiation for inactivation and mutant formation of Salmonella typhimurium TA102. *Environmental Science and Pollution Research*, **2017**, 24, 1871-1879	5.1	11
59	Advanced Oxidation Processes for the Removal of Food Dyes in Wastewater. *Current Organic Chemistry*, **2017**, 21, 1068-1073	1.7	13
58	Understanding and Optimizing Peracetic Acid Disinfection Processes Using Computational Fluid Dynamics: The Case Study of Nocera (Italy) Wastewater Treatment Plant. *Lecture Notes in Civil Engineering*, **2017**, 706-712	0.3	1
57	Progress in Nanomaterials Applications for Water Purification **2017**, 1-24		0
56	Inactivation of Escherichia coli and Enterococci in urban wastewater by sunlight/PAA and sunlight/H2O2 processes. *Chemical Engineering Research and Design*, **2016**, 104, 178-184	5.5	28
55	Removal of arsenic from drinking water by photo-catalytic oxidation on MoOx/TiO2 and adsorption on -Al2O3. *Journal of Chemical Technology and Biotechnology*, **2016**, 91, 88-95	3.5	21
54	MoOx/TiO2 immobilized on quartz support as structured catalyst for the photocatalytic oxidation of As(III) to As(V) in aqueous solutions. *Chemical Engineering Research and Design*, **2016**, 109, 190-199	5.5	27
53	Production of hydrogen from glucose by LaFeO 3 based photocatalytic process during water treatment. *International Journal of Hydrogen Energy*, **2016**, 41, 959-966	6.7	57

52	Antibiotic resistance spread potential in urban wastewater effluents disinfected by UV/H2O2 process. *Science of the Total Environment*, **2016**, 560-561, 29-35	10.2	100
51	Surface water disinfection by chlorination and advanced oxidation processes: Inactivation of an antibiotic resistant E. coli strain and cytotoxicity evaluation. *Science of the Total Environment*, **2016**, 554-555, 1-6	10.2	45
50	Photocatalytic hydrogen production from degradation of glucose over fluorinated and platinized TiO2 catalysts. *Journal of Catalysis*, **2016**, 339, 47-56	7.3	47
49	High Throughput Analysis of Integron Gene Cassettes in Wastewater Environments. *Environmental Science & Technology*, **2016**, 50, 11825-11836	10.3	59
48	Food Azo-Dyes Removal from Water by Heterogeneous Photo-Fenton with LaFeO3 Supported on Honeycomb Corundum Monoliths. *Journal of Environmental Engineering, ASCE*, **2015**, 141, 04015038	2	16
47	Simultaneous Production of CH4and H2from Photocatalytic Reforming of Glucose Aqueous Solution on Sulfated Pd-TiO2Catalysts. *Oil and Gas Science and Technology*, **2015**, 70, 891-902	1.9	26
46	COST Action ES1403: new and emerging challenges and opportunities in wastewater reuse (NEREUS). *Environmental Science and Pollution Research*, **2015**, 22, 7183-6	5.1	20
45	Inactivation and regrowth of multidrug resistant bacteria in urban wastewater after disinfection by solar-driven and chlorination processes. *Journal of Photochemistry and Photobiology B: Biology*, **2015**, 148, 43-50	6.7	96
44	Cross-Contamination of Residual Emerging Contaminants and Antibiotic Resistant Bacteria in Lettuce Crops and Soil Irrigated with Wastewater Treated by Sunlight/H2O2. *Environmental Science & Technology*, **2015**, 49, 11096-104	10.3	52
43	Effect of photocatalysis on the transfer of antibiotic resistance genes in urban wastewater. *Catalysis Today*, **2015**, 240, 55-60	5.3	78
42	Advanced treatment of urban wastewater by sand filtration and graphene adsorption for wastewater reuse: Effect on a mixture of pharmaceuticals and toxicity. *Journal of Environmental Chemical Engineering*, **2015**, 3, 122-128	6.8	54
41	Urban wastewater disinfection for agricultural reuse: effect of solar driven AOPs in the inactivation of a multidrug resistant E. coli strain. *Applied Catalysis B: Environmental*, **2015**, 178, 65-73	21.8	92
40	Effect of solar simulated N-doped TiO2 photocatalysis on the inactivation and antibiotic resistance of an E. coli strain in biologically treated urban wastewater. *Applied Catalysis B: Environmental*, **2014** , 144, 369-378	21.8	143
39	Disinfection of urban wastewater by solar driven and UV lamp - TiO photocatalysis: effect on a multi drug resistant Escherichia coli strain. *Water Research*, **2014**, 53, 145-52	12.5	121
38	A comparative evaluation of ozonation and heterogeneous photocatalytic oxidation processes for reuse of secondary treated urban wastewater. *Desalination and Water Treatment*, **2014**, 52, 1414-1421		16
37	Enhanced photocatalytic oxidation of arsenite to arsenate in water solutions by a new catalyst based on MoOx supported on TiO2. *Applied Catalysis B: Environmental*, **2014**, 160-161, 247-253	21.8	56
36	The Contribution of the Coagulation Process in Controlling Microbial Risk and Disinfection By-products Formation in Drinking Water **2014**, 219-238		2
35	Advanced treatment of urban wastewater by UV radiation: Effect on antibiotics and antibiotic-resistant E. coli strains. *Chemosphere*, **2013**, 92, 171-6	8.4	92

34	Urban wastewater treatment plants as hotspots for antibiotic resistant bacteria and genes spread into the environment: a review. *Science of the Total Environment*, **2013**, 447, 345-60	10.2	1383
33	Solar light-induced photoelectrocatalytic degradation of bisphenol-A on TiO2/ITO film anode and BDD cathode. *Catalysis Today*, **2013**, 209, 74-78	5.3	55
32	Vancomycin resistant enterococci: from the hospital effluent to the urban wastewater treatment plant. *Science of the Total Environment*, **2013**, 450-451, 155-61	10.2	85
31	Urban wastewater treatment plants as hotspots for the release of antibiotics in the environment: a review. *Water Research*, **2013**, 47, 957-95	12.5	1189
30	Endocrine disruptors compounds, pharmaceuticals and personal care products in urban wastewater: implications for agricultural reuse and their removal by adsorption process. *Environmental Science and Pollution Research*, **2013**, 20, 3616-28	5.1	98
29	Effect of solar radiation on multidrug resistant E. coli strains and antibiotic mixture photodegradation in wastewater polluted stream. *Science of the Total Environment*, **2012**, 427-428, 263-8	10.2	31
28	Two-phase anaerobic digestion of partially acidified sewage sludge: a pilot plant study for safe sludge disposal in developing countries. *Environmental Technology (United Kingdom)*, **2012**, 33, 2089-95	2.6	5
27	Ozone oxidation and aerobic biodegradation with spent mushroom compost for detoxification and benzo(a)pyrene removal from contaminated soil. *Chemosphere*, **2012**, 87, 595-601	8.4	19
26	Phosphorus Recovery from Urban Wastewater Treatment Plant Sludge Liquor by Ion Exchange. *Separation Science and Technology*, **2012**, 47, 613-620	2.5	19
25	Bioassays as a tool for evaluating advanced oxidation processes in water and wastewater treatment. *Water Research*, **2011**, 45, 4311-40	12.5	279
24	Inactivation and injury assessment of Escherichia coli during solar and photocatalytic disinfection in LDPE bags. *Chemosphere*, **2011**, 85, 1160-6	8.4	50
23	PAHs contaminated soils remediation by ozone oxidation. *Desalination and Water Treatment*, **2010**, 23, 161-172		15
22	Olive Mill and Winery Wastewaters Pre-Treatment by Coagulation with Chitosan. *Separation Science and Technology*, **2010**, 45, 2447-2452	2.5	26
21	Degradation of fifteen emerging contaminants at microg L(-1) initial concentrations by mild solar photo-Fenton in MWTP effluents. *Water Research*, **2010**, 44, 545-54	12.5	264
20	Removal of Xenobiotic Compounds from Water and Wastewater by Advanced Oxidation Processes. *Environmental Pollution*, **2010**, 387-412	0	4
19	Comparison of Photocatalytic Activities of Commercial Titanium Dioxide Powders Immobilised on Glass Substrates. *Journal of Advanced Oxidation Technologies*, **2010**, 13,		4
18	Evaluation of operating parameters involved in solar photo-Fenton treatment of wastewater: Interdependence of initial pollutant concentration, temperature and iron concentration. *Applied Catalysis B: Environmental*, **2010**, 97, 292-298	21.8	55
17	Inactivation and injury of total coliform bacteria after primary disinfection of drinking water by TiO2 photocatalysis. *Journal of Hazardous Materials*, **2009**, 165, 48-51	12.8	56

16	Advanced oxidation of catechol: A comparison among photocatalysis, Fenton and photo-Fenton processes. *Desalination*, **2009**, 249, 878-883	10.3	57
15	Degradation of diclofenac by TiO(2) photocatalysis: UV absorbance kinetics and process evaluation through a set of toxicity bioassays. *Water Research*, **2009**, 43, 979-88	12.5	210
14	Heterogenous photocatalytic degradation kinetics and detoxification of an urban wastewater treatment plant effluent contaminated with pharmaceuticals. *Water Research*, **2009**, 43, 4070-8	12.5	186
13	Application of photocatalysis as a post treatment method of a heterotrophic-autotrophic denitrification reactor effluent. *Chemosphere*, **2008**, 72, 1706-11	8.4	12
12	Pre-treatment of olive mill wastewater by chitosan coagulation and advanced oxidation processes. *Separation and Purification Technology*, **2008**, 63, 648-653	8.3	92
11	Coagulation/chlorination of surface water: A comparison between chitosan and metal salts. *Separation and Purification Technology*, **2008**, 62, 79-85	8.3	69
10	Removal of methylene blue in a photocatalytic reactor using polymethylmethacrylate supported TiO2 nanofilm. *Desalination*, **2007**, 211, 1-9	10.3	92
9	DBPs formation and toxicity monitoring in different origin water treated by ozone and alum/PAC coagulation. *Desalination*, **2007**, 210, 31-43	10.3	36
8	Review on endocrine disrupting-emerging compounds in urban wastewater: occurrence and removal by photocatalysis and ultrasonic irradiation for wastewater reuse. *Desalination*, **2007**, 215, 166-176	10.3	222
7	Activation of solgel titanium nanofilm by UV illumination for NOM removal. *Water Science and Technology*, **2007**, 55, 113-8	2.2	9
6	Potential reuse of a leather tanning and an urban wastewater treatment plant effluent in Italy. *International Journal of Environment and Pollution*, **2006**, 28, 100	0.7	3
5	Removal of THM precursors from a high-alkaline surface water by enhanced coagulation and behaviour of THMFP toxicity on D. magna. *Desalination*, **2005**, 176, 177-188	10.3	42
4	Optimization of analytical methods for the determination of DBPs: Application to drinking waters from Greece and Italy. *Desalination*, **2005**, 176, 25-36	10.3	18
3	Application of oxidative removal of NOM to drinking water and formation of disinfection by-products. *Desalination*, **2005**, 176, 155-166	10.3	57
2	Regrowth evaluation of coliform bacteria injured by low chlorine doses using selective and nonselective media. *Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering*, **2004**, 39, 2081-92	2.3	12
1	Organic THMs precursors removal from surface water with low TOC and high alkalinity by enhanced coagulation. *Water Science and Technology: Water Supply*, **2004**, 4, 103-111	1.4	4