

# Luigi Rizzo

## List of Publications by Year in descending order

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110  
papers

10,491  
citations

44069

48  
h-index

31849

101  
g-index

113  
all docs

113  
docs citations

113  
times ranked

10565  
citing authors

#	ARTICLE	IF	CITATIONS
1	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, 345-360.	8.0	1,784
2	Urban wastewater treatment plants as hotspots for the release of antibiotics in the environment: A review. <i>Water Research</i> , 2013, 47, 957-995.	11.3	1,518
3	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.	8.0	515
4	Bioassays as a tool for evaluating advanced oxidation processes in water and wastewater treatment. <i>Water Research</i> , 2011, 45, 4311-4340.	11.3	331
5	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.	8.0	328
6	Degradation of fifteen emerging contaminants at $10^{-4}$ g/L initial concentrations by mild solar photo-Fenton in MWTP effluents. <i>Water Research</i> , 2010, 44, 545-554.	11.3	293
7	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.	8.2	239
8	Degradation of diclofenac by TiO <sub>2</sub> photocatalysis: UV absorbance kinetics and process evaluation through a set of toxicity bioassays. <i>Water Research</i> , 2009, 43, 979-988.	11.3	236
9	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.	11.3	231
10	Heterogenous photocatalytic degradation kinetics and detoxification of an urban wastewater treatment plant effluent contaminated with pharmaceuticals. <i>Water Research</i> , 2009, 43, 4070-4078.	11.3	214
11	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.	20.2	190
12	Effect of solar simulated N-doped TiO <sub>2</sub> 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.	20.2	176
13	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.	8.0	167
14	Disinfection of urban wastewater by solar driven and UV lamp $\text{TiO}_2$ photocatalysis: Effect on a multi drug resistant Escherichia coli strain. <i>Water Research</i> , 2014, 53, 145-152.	11.3	149
15	Antibiotic resistance spread potential in urban wastewater effluents disinfected by UV/H <sub>2</sub> O <sub>2</sub> process. <i>Science of the Total Environment</i> , 2016, 560-561, 29-35.	8.0	129
16	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, 3616-3628.	5.3	125
17	Advanced treatment of urban wastewater by UV radiation: Effect on antibiotics and antibiotic-resistant E. coli strains. <i>Chemosphere</i> , 2013, 92, 171-176.	8.2	122
18	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.	3.8	122

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19	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.	20.2	113
20	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.	11.3	108
21	Pre-treatment of olive mill wastewater by chitosan coagulation and advanced oxidation processes. <i>Separation and Purification Technology</i> , 2008, 63, 648-653.	7.9	106
22	Photocatalytic activity of a visible light active structured photocatalyst developed for municipal wastewater treatment. <i>Journal of Cleaner Production</i> , 2018, 175, 38-49.	9.3	106
23	Removal of methylene blue in a photocatalytic reactor using polymethylmethacrylate supported TiO <sub>2</sub> nanofilm. <i>Desalination</i> , 2007, 211, 1-9.	8.2	104
24	Vancomycin resistant enterococci: From the hospital effluent to the urban wastewater treatment plant. <i>Science of the Total Environment</i> , 2013, 450-451, 155-161.	8.0	99
25	β-lactams resistance gene quantification in an antibiotic resistant Escherichia coli water suspension treated by advanced oxidation with UV/H <sub>2</sub> O <sub>2</sub> . <i>Journal of Hazardous Materials</i> , 2017, 323, 426-433.	12.4	94
26	Enhanced photocatalytic hydrogen production from glucose aqueous matrices on Ru-doped LaFeO <sub>3</sub> . <i>Applied Catalysis B: Environmental</i> , 2017, 207, 182-194.	20.2	94
27	Effect of photocatalysis on the transfer of antibiotic resistance genes in urban wastewater. <i>Catalysis Today</i> , 2015, 240, 55-60.	4.4	89
28	Coagulation/chlorination of surface water: A comparison between chitosan and metal salts. <i>Separation and Purification Technology</i> , 2008, 62, 79-85.	7.9	80
29	Limitations and Prospects for Wastewater Treatment by UV and Visible-Light-Active Heterogeneous Photocatalysis: A Critical Review. <i>Topics in Current Chemistry</i> , 2020, 378, 7.	5.8	78
30	Production of hydrogen from glucose by LaFeO <sub>3</sub> based photocatalytic process during water treatment. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 959-966.	7.1	75
31	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.	7.9	75
32	Advanced oxidation of catechol: A comparison among photocatalysis, Fenton and photo-Fenton processes. <i>Desalination</i> , 2009, 249, 878-883.	8.2	73
33	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.	12.4	71
34	Photocatalytic hydrogen production from degradation of glucose over fluorinated and platinized TiO <sub>2</sub> catalysts. <i>Journal of Catalysis</i> , 2016, 339, 47-56.	6.2	69
35	Inactivation and injury of total coliform bacteria after primary disinfection of drinking water by TiO <sub>2</sub> photocatalysis. <i>Journal of Hazardous Materials</i> , 2009, 165, 48-51.	12.4	68
36	High Throughput Analysis of Integron Gene Cassettes in Wastewater Environments. <i>Environmental Science &amp; Technology</i> , 2016, 50, 11825-11836.	10.0	68

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37	Application of oxidative removal of NOM to drinking water and formation of disinfection by-products. <i>Desalination</i> , 2005, 176, 155-166.	8.2	66
38	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.	20.2	65
39	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.	6.7	64
40	Enhanced photocatalytic oxidation of arsenite to arsenate in water solutions by a new catalyst based on MoOx supported on TiO2. <i>Applied Catalysis B: Environmental</i> , 2014, 160-161, 247-253.	20.2	63
41	Antibiotic contaminated water treated by photo driven advanced oxidation processes: Ultraviolet/H2O2 vs ultraviolet/peracetic acid. <i>Journal of Cleaner Production</i> , 2018, 205, 67-75.	9.3	63
42	Solar light-induced photoelectrocatalytic degradation of bisphenol-A on TiO2/ITO film anode and BDD cathode. <i>Catalysis Today</i> , 2013, 209, 74-78.	4.4	59
43	Hydrogen production from glucose degradation in water and wastewater treated by Ru-LaFeO3/Fe2O3 magnetic particles photocatalysis and heterogeneous photo-Fenton. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 2184-2196.	7.1	59
44	Inactivation and injury assessment of Escherichia coli during solar and photocatalytic disinfection in LDPE bags. <i>Chemosphere</i> , 2011, 85, 1160-1166.	8.2	58
45	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.	8.0	58
46	Cross-Contamination of Residual Emerging Contaminants and Antibiotic Resistant Bacteria in Lettuce Crops and Soil Irrigated with Wastewater Treated by Sunlight/H <sub>2</sub> O <sub>2</sub> . <i>Environmental Science &amp; Technology</i> , 2015, 49, 11096-11104.	10.0	57
47	Changes in Antibiotic Resistance Gene Levels in Soil after Irrigation with Treated Wastewater: A Comparison between Heterogeneous Photocatalysis and Chlorination. <i>Environmental Science &amp; Technology</i> , 2020, 54, 7677-7686.	10.0	54
48	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.	8.2	52
49	Visible light active N-doped TiO2 immobilized on polystyrene as efficient system for wastewater treatment. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 348, 255-262.	3.9	48
50	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.	4.1	47
51	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.	8.0	47
52	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.	11.3	46
53	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.	11.3	46
54	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.	8.2	45

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55	Contaminants of emerging concern removal from real wastewater by UV/free chlorine process: A comparison with solar/free chlorine and UV/H <sub>2</sub> O <sub>2</sub> at pilot scale. <i>Chemosphere</i> , 2019, 236, 124354.	8.2	43
56	DBPs formation and toxicity monitoring in different origin water treated by ozone and alum/PAC coagulation. <i>Desalination</i> , 2007, 210, 31-43.	8.2	38
57	Effect of solar radiation on multidrug resistant <i>E. coli</i> strains and antibiotic mixture photodegradation in wastewater polluted stream. <i>Science of the Total Environment</i> , 2012, 427-428, 263-268.	8.0	38
58	Inactivation of <i>Escherichia coli</i> and Enterococci in urban wastewater by sunlight/PAA and sunlight/H <sub>2</sub> O <sub>2</sub> processes. <i>Chemical Engineering Research and Design</i> , 2016, 104, 178-184.	5.6	37
59	Olive Mill and Winery Wastewaters Pre-Treatment by Coagulation with Chitosan. <i>Separation Science and Technology</i> , 2010, 45, 2447-2452.	2.5	35
60	Combination of flow cytometry and molecular analysis to monitor the effect of UVC/H <sub>2</sub> O <sub>2</sub> vs UVC/H <sub>2</sub> O <sub>2</sub> /Cu-IDS processes on pathogens and antibiotic resistant genes in secondary wastewater effluents. <i>Water Research</i> , 2020, 184, 116194.	11.3	34
61	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.	0.5	34
62	MoO <sub>3</sub> /TiO <sub>2</sub> 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.	5.6	32
63	Simultaneous Production of CH <sub>4</sub> and H <sub>2</sub> from Photocatalytic Reforming of Glucose Aqueous Solution on Sulfated Pd-TiO <sub>2</sub> Catalysts. <i>Oil and Gas Science and Technology</i> , 2015, 70, 891-902.	1.4	31
64	Solar driven photocatalysis using iron and chromium doped TiO <sub>2</sub> coupled to moving bed biofilm process for olive mill wastewater treatment. <i>Chemical Engineering Journal</i> , 2022, 450, 138107.	12.7	30
65	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.	3.5	28
66	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.	8.0	28
67	Removal of arsenic from drinking water by photocatalytic oxidation on MoO <sub>3</sub> /TiO <sub>2</sub> and adsorption on Al <sub>2</sub> O <sub>3</sub> . <i>Journal of Chemical Technology and Biotechnology</i> , 2016, 91, 88-95.	3.2	26
68	Advanced Oxidation Processes for the Removal of Food Dyes in Wastewater. <i>Current Organic Chemistry</i> , 2017, 21, 1068-1073.	1.6	26
69	COST Action ES1403: New and Emerging challenges and opportunities in wastewater REUSE (NEREUS). <i>Environmental Science and Pollution Research</i> , 2015, 22, 7183-7186.	5.3	25
70	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.	6.7	25
71	Sunlight advanced oxidation processes vs ozonation for wastewater disinfection and safe reclamation. <i>Science of the Total Environment</i> , 2021, 787, 147531.	8.0	25
72	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.	8.2	24

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73	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.	6.7	24
74	Optimization of analytical methods for the determination of DBPs: Application to drinking waters from Greece and Italy. <i>Desalination</i> , 2005, 176, 25-36.	8.2	22
75	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.	1.0	22
76	Comparing TiO <sub>2</sub> photocatalysis and UV-C radiation for inactivation and mutant formation of <i>Salmonella typhimurium</i> TA102. <i>Environmental Science and Pollution Research</i> , 2017, 24, 1871-1879.	5.3	22
77	Nonylphenol deca-ethoxylate removal from wastewater by UV/H <sub>2</sub> O <sub>2</sub> : Degradation kinetics and toxicity effects. <i>Chemical Engineering Research and Design</i> , 2019, 124, 1-7.	5.6	22
78	Review of aminopolycarboxylic acids-based 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.	5.9	22
79	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.	3.6	21
80	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> , 2022, 431, 133474.	12.7	21
81	PAHs contaminated soils remediation by ozone oxidation. <i>Desalination and Water Treatment</i> , 2010, 23, 161-172.	1.0	20
82	Phosphorus Recovery from Urban Wastewater Treatment Plant Sludge Liquor by Ion Exchange. <i>Separation Science and Technology</i> , 2012, 47, 613-620.	2.5	20
83	Cationic Dye Degradation and Real Textile Wastewater Treatment by Heterogeneous Photo-Fenton, Using a Novel Natural Catalyst. <i>Catalysts</i> , 2021, 11, 1358.	3.5	20
84	Food Azo-Dyes Removal from Water by Heterogeneous Photo-Fenton with LaFeO <sub>3</sub> Supported on Honeycomb Corundum Monoliths. <i>Journal of Environmental Engineering, ASCE</i> , 2015, 141, .	1.4	19
85	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.	4.4	19
86	Inactivation of an urban wastewater indigenous <i>Escherichia coli</i> strain by cerium doped zinc oxide photocatalysis. <i>RSC Advances</i> , 2018, 8, 26124-26132.	3.6	18
87	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.	6.7	18
88	Disinfection of roof harvested rainwater inoculated with <i>E. coli</i> and <i>Enterococcus</i> and post-treatment bacterial regrowth: Conventional vs solar driven advanced oxidation processes. <i>Science of the Total Environment</i> , 2021, 801, 149763.	8.0	18
89	Application of photocatalysis as a post treatment method of a heterotrophic autotrophic denitrification reactor effluent. <i>Chemosphere</i> , 2008, 72, 1706-1711.	8.2	16
90	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.	6.1	16

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91	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, 2081-2092.	1.7	15
92	Combination of foam fractionation and photo-Fenton like processes for greywater treatment. <i>Separation and Purification Technology</i> , 2022, 293, 121114.	7.9	15
93	Fe <sup>3+</sup> -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.	6.7	14
94	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.	12.4	13
95	Assessment of a novel microalgae-cork based technology for removing antibiotics, pesticides and nitrates from groundwater. <i>Chemosphere</i> , 2022, 301, 134777.	8.2	11
96	Activation of solgel titanium nanofilm by UV illumination for NOM removal. <i>Water Science and Technology</i> , 2007, 55, 113-118.	2.5	10
97	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.	2.1	9
98	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.	6.7	7
99	Removal of Xenobiotic Compounds from Water and Wastewater by Advanced Oxidation Processes. <i>Environmental Pollution</i> , 2010, , 387-412.	0.4	6
100	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.	0.2	5
101	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, 2089-2095.	2.2	5
102	The Contribution of the Coagulation Process in Controlling Microbial Risk and Disinfection By-products Formation in Drinking Water. , 2014, , 219-238.		5
103	Progress in Nanomaterials Applications for Water Purification. , 2017, , 1-24.		5
104	Comparison of Photocatalytic Activities of Commercial Titanium Dioxide Powders Immobilised on Glass Substrates. <i>Journal of Advanced Oxidation Technologies</i> , 2010, 13, .	0.5	4
105	Effect of the aqueous matrix on the inactivation of E. coli by permaleic acid. <i>Science of the Total Environment</i> , 2021, 767, 144395.	8.0	3
106	Editorial - "Urban wastewater reuse and chemical contaminants of emerging concern". <i>Chemosphere</i> , 2020, 248, 126052.	8.2	3
107	New challenges in the application of advanced oxidation processes. <i>Environmental Science and Pollution Research</i> , 2018, 25, 27673-27675.	5.3	1
108	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

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109	Environmental Applications of Photocatalytic Processes. Catalysts, 2020, 10, 1264.	3.5	0
110	11th Biennial Conference on Environmental Science and Technology (CEST 2009), Chania, Crete, Greece (3â€“5 September 2009). , 0, , 1-2.		0