

Roberto Andreozzi

List of Publications by Year in descending order

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87
papers

5,740
citations

101384

36
h-index

74018

75
g-index

90
all docs

90
docs citations

90
times ranked

6290
citing authors

#	ARTICLE	IF	CITATIONS
1	Pharmaceuticals in STP effluents and their solar photodegradation in aquatic environment. <i>Chemosphere</i> , 2003, 50, 1319-1330.	4.2	1,064
2	Advanced oxidation of the pharmaceutical drug diclofenac with UV/H ₂ O ₂ and ozone. <i>Water Research</i> , 2004, 38, 414-422.	5.3	382
3	Antibiotic removal from wastewaters: The ozonation of amoxicillin. <i>Journal of Hazardous Materials</i> , 2005, 122, 243-250.	6.5	342
4	Kinetic and chemical assessment of the UV/H ₂ O ₂ treatment of antiepileptic drug carbamazepine. <i>Chemosphere</i> , 2004, 54, 497-505.	4.2	306
5	Paracetamol oxidation from aqueous solutions by means of ozonation and H ₂ O ₂ /UV system. <i>Water Research</i> , 2003, 37, 993-1004.	5.3	297
6	Antibiotics in the Environment: Occurrence in Italian STPs, Fate, and Preliminary Assessment on Algal Toxicity of Amoxicillin. <i>Environmental Science & Technology</i> , 2004, 38, 6832-6838.	4.6	270
7	Carbamazepine in water: persistence in the environment, ozonation treatment and preliminary assessment on algal toxicity. <i>Water Research</i> , 2002, 36, 2869-2877.	5.3	259
8	The use of manganese dioxide as a heterogeneous catalyst for oxalic acid ozonation in aqueous solution. <i>Applied Catalysis A: General</i> , 1996, 138, 75-81.	2.2	168
9	Lincomycin solar photodegradation, algal toxicity and removal from wastewaters by means of ozonation. <i>Water Research</i> , 2006, 40, 630-638.	5.3	144
10	Bezafibrate removal by means of ozonation: Primary intermediates, kinetics, and toxicity assessment. <i>Water Research</i> , 2007, 41, 2525-2532.	5.3	123
11	Ozonation and H ₂ O ₂ /UV treatment of clofibric acid in water: a kinetic investigation. <i>Journal of Hazardous Materials</i> , 2003, 103, 233-246.	6.5	119
12	Copper modified-TiO ₂ catalysts for hydrogen generation through photoreforming of organics. A short review. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 16812-16831.	3.8	115
13	The ozonation of pyruvic acid in aqueous solutions catalyzed by suspended and dissolved manganese. <i>Water Research</i> , 1998, 32, 1492-1496.	5.3	76
14	Removal of nitrate and simultaneous hydrogen generation through photocatalytic reforming of glycerol over <i>in situ</i> prepared zero-valent nano copper/P25. <i>Applied Catalysis B: Environmental</i> , 2017, 202, 539-549.	10.8	76
15	Oxidation of aromatic substrates in water/goethite slurry by means of hydrogen peroxide. <i>Water Research</i> , 2002, 36, 4691-4698.	5.3	71
16	Photodegradation of naproxen and its photoproducts in aqueous solution at 254 nm: A kinetic investigation. <i>Water Research</i> , 2013, 47, 373-383.	5.3	69
17	TiO ₂ /Cu(II) photocatalytic production of benzaldehyde from benzyl alcohol in solar pilot plant reactor. <i>Applied Catalysis B: Environmental</i> , 2013, 136-137, 56-63.	10.8	67
18	Selective oxidation of benzyl alcohol to benzaldehyde in water by TiO ₂ /Cu(II)/UV solar system. <i>Chemical Engineering Journal</i> , 2011, 172, 243-249.	6.6	64

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19	Oxidation of 3,4-dihydroxybenzoic acid by means of hydrogen peroxide in aqueous goethite slurry. <i>Water Research</i> , 2002, 36, 2761-2768.	5.3	62
20	Advanced oxidation processes for the treatment of mineral oil-contaminated wastewaters. <i>Water Research</i> , 2000, 34, 620-628.	5.3	60
21	Hydrogen Generation through Solar Photocatalytic Processes: A Review of the Configuration and the Properties of Effective Metal-Based Semiconductor Nanomaterials. <i>Energies</i> , 2017, 10, 1624.	1.6	56
22	The oxidation of metol (N-methyl-p-aminophenol) in aqueous solution by UV/H ₂ O ₂ photolysis. <i>Water Research</i> , 2000, 34, 463-472.	5.3	55
23	Effect of combined physico-chemical processes on the phytotoxicity of olive mill wastewaters. <i>Water Research</i> , 2008, 42, 1684-1692.	5.3	51
24	Hydrogen production through photoreforming processes over Cu ₂ O/TiO ₂ composite materials: A mini-review. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 28531-28552.	3.8	51
25	Photodegradation and ecotoxicology of acyclovir in water under UV ₂₅₄ and UV ₂₅₄ /H ₂ O ₂ processes. <i>Water Research</i> , 2017, 122, 591-602.	5.3	50
26	Kinetic investigation of Cu(II) ions photoreduction in presence of titanium dioxide and formic acid. <i>Water Research</i> , 2008, 42, 4498-4506.	5.3	48
27	Kinetic modeling of pyruvic acid ozonation in aqueous solutions catalyzed by Mn(II) and Mn(IV) ions. <i>Water Research</i> , 2001, 35, 109-120.	5.3	46
28	Fe(III) homogeneous photocatalysis for the removal of 1,2-dichlorobenzene in aqueous solution by means UV lamp and solar light. <i>Water Research</i> , 2006, 40, 3785-3792.	5.3	46
29	Oxidation of 2,4-dichlorophenol and 3,4-dichlorophenol by means of Fe(III)-homogeneous photocatalysis and algal toxicity assessment of the treated solutions. <i>Water Research</i> , 2011, 45, 2038-2048.	5.3	46
30	Removal of benzoic acid in aqueous solution by Fe(III) homogeneous photocatalysis. <i>Water Research</i> , 2004, 38, 1225-1236.	5.3	45
31	In situ photodeposited nanoCu on TiO ₂ as a catalyst for hydrogen production under UV/visible radiation. <i>Applied Catalysis A: General</i> , 2016, 518, 142-149.	2.2	44
32	Kinetic modeling of hydrogen generation over nano-Cu (s) /TiO ₂ catalyst through photoreforming of alcohols. <i>Catalysis Today</i> , 2017, 281, 117-123.	2.2	44
33	Photochemical degradation of benzotriazole in aqueous solution. <i>Journal of Chemical Technology and Biotechnology</i> , 1998, 73, 93-98.	1.6	43
34	A kinetic model for the degradation of benzothiazole by Fe ³⁺ -photo-assisted Fenton process in a completely mixed batch reactor. <i>Journal of Hazardous Materials</i> , 2000, 80, 241-257.	6.5	40
35	Removal of EDDS and copper from waters by TiO ₂ photocatalysis under simulated UV“solar conditions. <i>Chemical Engineering Journal</i> , 2014, 251, 257-268.	6.6	39
36	Ozonation of p-chlorophenol in aqueous solution. <i>Journal of Hazardous Materials</i> , 1999, 69, 303-317.	6.5	38

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37	Iron(III) (hydr)oxide-mediated photooxidation of 2-aminophenol in aqueous solution: a kinetic study. <i>Water Research</i> , 2003, 37, 3682-3688.	5.3	36
38	Energy recovery in wastewater decontamination: Simultaneous photocatalytic oxidation of an organic substrate and electricity generation. <i>Water Research</i> , 2009, 43, 2710-2716.	5.3	35
39	Ozone Solubility in Phosphate-Buffered Aqueous Solutions: Effect of Temperature, tert-Butyl Alcohol, and pH. <i>Industrial & Engineering Chemistry Research</i> , 1996, 35, 1467-1471.	1.8	34
40	Biodiesel production from <i>Stichococcus</i> strains at laboratory scale. <i>Journal of Chemical Technology and Biotechnology</i> , 2011, 86, 776-783.	1.6	34
41	Effect of surface properties of copper-modified commercial titanium dioxide photocatalysts on hydrogen production through photoreforming of alcohols. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 28349-28362.	3.8	34
42	Removal of antiretroviral drugs stavudine and zidovudine in water under UV254 and UV254/H ₂ O ₂ processes: Quantum yields, kinetics and ecotoxicology assessment. <i>Journal of Hazardous Materials</i> , 2018, 349, 195-204.	6.5	33
43	Effects of photobioreactors design and operating conditions on <i>Stichococcus bacillaris</i> biomass and biodiesel production. <i>Biochemical Engineering Journal</i> , 2013, 74, 8-14.	1.8	31
44	Evaluation of biodegradation kinetic constants for aromatic compounds by means of aerobic batch experiments. <i>Chemosphere</i> , 2006, 62, 1431-1436.	4.2	30
45	The thermal decomposition of dimethoate. <i>Journal of Hazardous Materials</i> , 1999, 64, 283-294.	6.5	29
46	Kinetic and chemical characterization of thermal decomposition of dicumylperoxide in cumene. <i>Journal of Hazardous Materials</i> , 2011, 187, 157-163.	6.5	29
47	Hydrogen production by photoreforming of formic acid in aqueous copper/TiO ₂ suspensions under UV-simulated solar radiation at room temperature. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 9644-9654.	3.8	29
48	Direct photolysis of benzoylecgonine under UV irradiation at 254nm in a continuous flow microcapillary array photoreactor. <i>Chemical Engineering Journal</i> , 2016, 283, 243-250.	6.6	29
49	N-methyl-p-aminophenol (metol) ozonation in aqueous solution: kinetics, mechanism and toxicological characterization of ozonized samples. <i>Water Research</i> , 2000, 34, 4419-4429.	5.3	28
50	Investigation on the removal of the major cocaine metabolite (benzoylecgonine) in water matrices by UV 254 /H ₂ O ₂ process by using a flow microcapillary film array photoreactor as an efficient experimental tool. <i>Water Research</i> , 2016, 89, 375-383.	5.3	25
51	Near UV irradiation of CuO-impregnated TiO ₂ Providing Active Species for H ₂ Production Through Methanol Photoreforming. <i>ChemCatChem</i> , 2019, 11, 4314-4326.	1.8	25
52	Solar photocatalytic processes for treatment of soil washing wastewater. <i>Chemical Engineering Journal</i> , 2017, 318, 10-18.	6.6	21
53	Heterogeneous benzaldehyde nitration in batch and continuous flow microreactor. <i>Chemical Engineering Journal</i> , 2019, 377, 120346.	6.6	21
54	Analysis of complex reaction networks in gas-liquid systems: the ozonation of 2-hydroxypyridine in aqueous solutions. <i>Industrial & Engineering Chemistry Research</i> , 1991, 30, 2098-2104.	1.8	20

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55	Dicumyl Peroxide Thermal Decomposition in Cumene: Development of a Kinetic Model. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 7493-7499.	1.8	20
56	Salicylic Acid Nitration by Means of Nitric Acid/Acetic Acid System: A Chemical and Kinetic Characterization. <i>Organic Process Research and Development</i> , 2006, 10, 1199-1204.	1.3	19
57	Photocatalytic reforming of formic acid for hydrogen production in aqueous solutions containing cupric ions and TiO ₂ suspended nanoparticles under UV-simulated solar radiation. <i>Applied Catalysis A: General</i> , 2016, 518, 181-188.	2.2	18
58	Use of an amorphous iron oxide hydrated as catalyst for hydrogen peroxide oxidation of ferulic acid in water. <i>Journal of Hazardous Materials</i> , 2008, 152, 870-875.	6.5	17
59	Selective photo-oxidation of ethanol to acetaldehyde and acetic acid in water in presence of TiO ₂ and cupric ions under UV-simulated solar radiation. <i>Chemical Engineering Journal</i> , 2019, 361, 1524-1534.	6.6	17
60	Kinetic modeling of partial oxidation of benzyl alcohol in water by means of Fe(III)/O ₂ /UV-solar simulated process. <i>Chemical Engineering Journal</i> , 2014, 249, 130-142.	6.6	16
61	Hydrogen production upon UV-light irradiation of Cu/TiO ₂ photocatalyst in the presence of alkanol-amines. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 26701-26715.	3.8	16
62	Thermal decomposition of acetic anhydride-nitric acid mixtures. <i>Journal of Hazardous Materials</i> , 2002, 90, 111-121.	6.5	15
63	Fe(III)-photocatalytic partial oxidation of benzyl alcohol to benzaldehyde under UV-solar simulated radiation. <i>Photochemical and Photobiological Sciences</i> , 2013, 12, 1991.	1.6	15
64	Ultrafast photodegradation of isoxazole and isothiazolinones by UV254 and UV254/H ₂ O ₂ photolysis in a microcapillary reactor. <i>Water Research</i> , 2020, 169, 115203.	5.3	15
65	Nitric acid decomposition kinetics in mixed acid and their use in the modeling of aromatic nitration. <i>Chemical Engineering Journal</i> , 2013, 228, 366-373.	6.6	14
66	Detailed thermal and kinetic modeling of cumene hydroperoxide decomposition in cumene. <i>Chemical Engineering Research and Design</i> , 2013, 91, 262-268.	2.7	14
67	Photoactivated Fe(III)/Fe(II)/WO ₃ -Pd fuel cell for electricity generation using synthetic and real effluents under visible light. <i>Renewable Energy</i> , 2020, 147, 1070-1081.	4.3	14
68	Recovery of palladium (II) from aqueous solution through photocatalytic deposition in presence of ZnO under UV/Visible-light radiation. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106523.	3.3	13
69	Sacrificial photocatalysis: removal of nitrate and hydrogen production by nano-copper-loaded P25 titania. A kinetic and ecotoxicological assessment. <i>Environmental Science and Pollution Research</i> , 2017, 24, 5898-5907.	2.7	12
70	Benzaldehyde nitration by mixed acid under homogeneous condition: A kinetic modeling. <i>Chemical Engineering Journal</i> , 2017, 307, 1076-1083.	6.6	12
71	Efficient acetaldehyde production and recovery upon selective Cu/TiO ₂ -photocatalytic oxidation of ethanol in aqueous solution. <i>Chemical Engineering Journal</i> , 2020, 393, 123425.	6.6	12
72	Kinetic and Safety Characterization of the Nitration Process of Methyl Benzoate in Mixed Acid. <i>Organic Process Research and Development</i> , 2012, 16, 2001-2007.	1.3	11

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73	An evaluation of the application of a TiO ₂ /Cu(II)/solar simulated radiation system for selective oxidation of benzyl alcohol derivatives. <i>Journal of Chemical Technology and Biotechnology</i> , 2013, 88, 864-872.	1.6	11
74	Alkaline direct transesterification of different species of <i>Stichococcus</i> for bio-oil production. <i>New Biotechnology</i> , 2016, 33, 797-806.	2.4	10
75	Modeling and validation of a modular multi-lamp photo-reactor for cetylpyridinium chloride degradation by UV and UV/H ₂ O ₂ processes. <i>Chemical Engineering Journal</i> , 2019, 376, 120380.	6.6	9
76	Kinetic characterization of the photosynthetic reaction centres in microalgae by means of fluorescence methodology. <i>Journal of Biotechnology</i> , 2015, 212, 1-10.	1.9	8
77	(S)-Nitroxycarnitine nitrate production from (S)-carnitine by using acetic anhydride/nitric acid/acetic acid mixtures: safety assessment. <i>Journal of Hazardous Materials</i> , 2004, 113, 1-10.	6.5	5
78	Solubility of 5-Nitro- and 3-Nitrosalicylic Acids in an Acetic Acid/Nitric Acid Mixture. <i>Journal of Chemical & Engineering Data</i> , 2007, 52, 122-125.	1.0	5
79	Thermal Decomposition of 2-Nitrobenzoic Acid. <i>Journal of Chemical Technology and Biotechnology</i> , 1997, 69, 297-300.	1.6	3
80	Ternary HNO ₃ -H ₂ SO ₄ -H ₂ O Mixtures: A Simplified Approach for the Calculation of the Equilibrium Composition. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 1696-1704.	1.8	3
81	Metal-based semiconductor nanomaterials for photocatalysis. , 2018, , 187-213.		3
82	A procedure for the assessment of the toxicity of intermediates and products formed during the accidental thermal decomposition of a chemical species. <i>Journal of Hazardous Materials</i> , 2010, 176, 575-578.	6.5	2
83	LIGHT INTENSITIES MAXIMIZING PHOTOSYNTHESIS AND KINETICS OF PHOTOCHEMICAL STEPS IN <i>Graesiella emersonii</i> UNDER DIFFERENT CULTIVATION STRATEGIES. <i>Environmental Engineering and Management Journal</i> , 2019, 18, 1519-1526.	0.2	2
84	Hazard assessment of 4-nitrobenzoic acid production process. <i>Journal of Loss Prevention in the Process Industries</i> , 1997, 10, 205-209.	1.7	1
85	Removal of Organic Pollutants from Soil: The Ozonation of Clofibric Acid in Aqueous Slurries. <i>Ozone: Science and Engineering</i> , 2006, 28, 47-52.	1.4	1
86	A Kinetic Investigation on the Ozonation of Glycerol and its Oxygenated Derivatives. <i>Ozone: Science and Engineering</i> , 2009, 31, 445-453.	1.4	1
87	Rate evolution of benzonitrile nitration under heterogeneous conditions. <i>Journal of Chemical Technology and Biotechnology</i> , 1994, 61, 269-272.	1.6	0