

# Marcello Brigante

## List of Publications by Year in descending order

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99  
papers

4,123  
citations

87723

38  
h-index

133063

59  
g-index

99  
all docs

99  
docs citations

99  
times ranked

4019  
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessment of the Fe(III)-EDDS Complex in Fenton-Like Processes: From the Radical Formation to the Degradation of Bisphenol A. <i>Environmental Science &amp; Technology</i> , 2013, 47, 1952-1959.	4.6	310
2	Atmospheric photochemistry at a fatty acid-coated air-water interface. <i>Science</i> , 2016, 353, 699-702.	6.0	133
3	Performance and selectivity of the terephthalic acid probe for OH as a function of temperature, pH and composition of atmospherically relevant aqueous media. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2011, 222, 70-76.	2.0	125
4	Development of a new homogenous photo-Fenton process using Fe(III)-EDDS complexes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2012, 239, 17-23.	2.0	122
5	Assessing the photochemical transformation pathways of acetaminophen relevant to surface waters: Transformation kinetics, intermediates, and modelling. <i>Water Research</i> , 2014, 53, 235-248.	5.3	106
6	Sulfate Radical Photogeneration Using Fe-EDDS: Influence of Critical Parameters and Naturally Occurring Scavengers. <i>Environmental Science &amp; Technology</i> , 2015, 49, 14343-14349.	4.6	100
7	Activation of persulfate by Fe(III) species: Implications for 4-tert-butylphenol degradation. <i>Journal of Hazardous Materials</i> , 2017, 322, 380-386.	6.5	99
8	UVA-UVB activation of hydrogen peroxide and persulfate for advanced oxidation processes: Efficiency, mechanism and effect of various water constituents. <i>Journal of Hazardous Materials</i> , 2018, 347, 279-287.	6.5	93
9	Classification of clouds sampled at the puy de Dôme (France) based on 10 yr of monitoring of their physicochemical properties. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 1485-1506.	1.9	92
10	Phototransformation and ecotoxicity of the drug Naproxen-Na. <i>Environmental Chemistry Letters</i> , 2003, 1, 237-241.	8.3	76
11	Mechanism of carboxylic acid photooxidation in atmospheric aqueous phase: Formation, fate and reactivity. <i>Atmospheric Environment</i> , 2012, 56, 1-8.	1.9	76
12	Photoenhanced Reaction of Ozone with Chlorophyll at the Seawater Surface. <i>Journal of Physical Chemistry C</i> , 2009, 113, 2071-2077.	1.5	73
13	Photoenhanced Uptake of NO <sub>2</sub> by Pyrene Solid Films. <i>Journal of Physical Chemistry A</i> , 2008, 112, 9503-9508.	1.1	71
14	Disinfection of water inoculated with <i>Enterococcus faecalis</i> using solar/Fe(III)EDDS-H <sub>2</sub> O <sub>2</sub> or S <sub>2</sub> O <sub>8</sub> <sup>2-</sup> process. <i>Water Research</i> , 2017, 118, 249-260.	5.3	69
15	Rapid oxidation of paracetamol by Cobalt(II) catalyzed sulfite at alkaline pH. <i>Catalysis Today</i> , 2018, 313, 155-160.	2.2	69
16	Photochemical degradation of sunscreen agent 2-phenylbenzimidazole-5-sulfonic acid in different water matrices. <i>Water Research</i> , 2013, 47, 5865-5875.	5.3	67
17	Assessing the phototransformation of diclofenac, clofibric acid and naproxen in surface waters: Model predictions and comparison with field data. <i>Water Research</i> , 2016, 105, 383-394.	5.3	67
18	Mechanistic Insights on the Photosensitized Chemistry of a Fatty Acid at the Air/Water Interface. <i>Environmental Science &amp; Technology</i> , 2016, 50, 11041-11048.	4.6	64

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19	Degradation of lansoprazole and omeprazole in the aquatic environment. <i>Chemosphere</i> , 2006, 63, 1087-1093.	4.2	62
20	Photochemical processes involving the UV absorber benzophenone-4 (2-hydroxy-4-methoxybenzophenone-5-sulphonic acid) in aqueous solution: Reaction pathways and implications for surface waters. <i>Water Research</i> , 2013, 47, 5943-5953.	5.3	62
21	The pH-dependent photochemistry of anthraquinone-2-sulfonate. <i>Photochemical and Photobiological Sciences</i> , 2010, 9, 323-330.	1.6	61
22	Reactive Uptake of Ozone by Chlorophyll at Aqueous Surfaces. <i>Environmental Science &amp; Technology</i> , 2008, 42, 1138-1143.	4.6	60
23	Fe(III)-EDDS complex in Fenton and photo-Fenton processes: from the radical formation to the degradation of a target compound. <i>Environmental Science and Pollution Research</i> , 2014, 21, 12154-12162.	2.7	59
24	Enhanced oxidation of aniline using Fe(III)-S(IV) system: Role of different oxysulfur radicals. <i>Chemical Engineering Journal</i> , 2019, 362, 183-189.	6.6	57
25	New insights into the environmental photochemistry of 5-chloro-2-(2,4-dichlorophenoxy)phenol (triclosan): Reconsidering the importance of indirect photoreactions. <i>Water Research</i> , 2015, 72, 271-280.	5.3	56
26	Photochemical production of organic matter triplet states in water samples from mountain lakes, located below or above the tree line. <i>Chemosphere</i> , 2012, 88, 1208-1213.	4.2	55
27	Humic acid in ice: Photo-enhanced conversion of nitrogen dioxide into nitrous acid. <i>Atmospheric Environment</i> , 2010, 44, 5443-5450.	1.9	54
28	Photochemistry of 1-Nitronaphthalene: A Potential Source of Singlet Oxygen and Radical Species in Atmospheric Waters. <i>Journal of Physical Chemistry A</i> , 2010, 114, 2830-2836.	1.1	53
29	Effect of dissolved organic compounds on the photodegradation of the herbicide MCPA in aqueous solution. <i>Water Research</i> , 2010, 44, 6053-6062.	5.3	53
30	Assessing the occurrence of the dibromide radical (Br <sub>2</sub> <sup>••</sup> ) in natural waters: Measures of triplet-sensitised formation, reactivity, and modelling. <i>Science of the Total Environment</i> , 2012, 439, 299-306.	3.9	50
31	A better understanding of hydroxyl radical photochemical sources in cloud waters collected at the puy de Dôme station – experimental versus modelled formation rates. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 9191-9202.	1.9	50
32	Phototransformation of anthraquinone-2-sulphonate in aqueous solution. <i>Photochemical and Photobiological Sciences</i> , 2012, 11, 1445-1453.	1.6	49
33	Hydroxyl and sulfate radicals activated by Fe(III)-EDDS/UV: Comparison of their degradation efficiencies and influence of critical parameters. <i>Applied Catalysis B: Environmental</i> , 2019, 245, 271-278.	10.8	49
34	Toward a Better Understanding of Fe(III)-EDDS Photochemistry: Theoretical Stability Calculation and Experimental Investigation of 4- <i>tert</i> -Butylphenol Degradation. <i>Journal of Physical Chemistry A</i> , 2014, 118, 396-403.	1.1	48
35	Formation of hydroxyl radicals by irradiated 1-nitronaphthalene (1NN): oxidation of hydroxyl ions and water by the 1NN triplet state. <i>Photochemical and Photobiological Sciences</i> , 2011, 10, 1817-1824.	1.6	47
36	Effect of ethylenediamine-N,N'-disuccinic acid on Fenton and photo-Fenton processes using goethite as an iron source: optimization of parameters for bisphenol A degradation. <i>Environmental Science and Pollution Research</i> , 2013, 20, 39-50.	2.7	47

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37	Phototransformation of fibrate drugs in aqueous media. <i>Environmental Chemistry Letters</i> , 2005, 3, 43-47.	8.3	46
38	Photochemical Formation of Nitrite and Nitrous Acid (HONO) upon Irradiation of Nitrophenols in Aqueous Solution and in Viscous Secondary Organic Aerosol Proxy. <i>Environmental Science &amp; Technology</i> , 2017, 51, 7486-7495.	4.6	42
39	Hydrogen peroxide in natural cloud water: Sources and photoreactivity. <i>Atmospheric Research</i> , 2011, 101, 256-263.	1.8	40
40	Phototransformation of the Herbicide Propanil in Paddy Field Water. <i>Environmental Science &amp; Technology</i> , 2017, 51, 2695-2704.	4.6	40
41	Degradation of hydrochlorothiazide in water. <i>Environmental Chemistry Letters</i> , 2005, 2, 195-198.	8.3	39
42	Hydrogen peroxide and persulfate activation using UVA-UVB radiation: Degradation of estrogenic compounds and application in sewage treatment plant waters. <i>Journal of Hazardous Materials</i> , 2021, 405, 124693.	6.5	37
43	Photoenhanced ozone loss on solid pyrene films. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 7876.	1.3	35
44	Exploring the ionic strength effects on the photochemical degradation of pyruvic acid in atmospheric deliquescent aerosol particles. <i>Atmospheric Environment</i> , 2018, 185, 237-242.	1.9	35
45	Heterogeneous photochemistry of gaseous NO <sub>2</sub> on solid fluoranthene films: A source of gaseous nitrous acid (HONO) in the urban environment. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2014, 273, 23-28.	2.0	34
46	Improving the characterization of dissolved organic carbon in cloud water: Amino acids and their impact on the oxidant capacity. <i>Scientific Reports</i> , 2016, 6, 37420.	1.6	34
47	Phenol transformation and dimerisation, photosensitised by the triplet state of 1-nitronaphthalene: A possible pathway to humic-like substances (HULIS) in atmospheric waters. <i>Atmospheric Environment</i> , 2013, 70, 318-327.	1.9	33
48	Siderophores in Cloud Waters and Potential Impact on Atmospheric Chemistry: Photoreactivity of Iron Complexes under Sun-Simulated Conditions. <i>Environmental Science &amp; Technology</i> , 2016, 50, 9324-9332.	4.6	33
49	Formation of substances with humic-like fluorescence properties, upon photoinduced oligomerization of typical phenolic compounds emitted by biomass burning. <i>Atmospheric Environment</i> , 2019, 206, 197-207.	1.9	33
50	Formation and reactivity of the dichloride radical ( $\text{Cl}_2^{\cdot-}$ ). <i>Atmospheric Environment</i> , 2014, 95, 464-469.	4.2	32
51	Photoenhanced transformation of nicotine in aquatic environments: Involvement of naturally occurring radical sources. <i>Water Research</i> , 2014, 55, 106-114.	5.3	32
52	Photochemistry of the Cloud Aqueous Phase: A Review. <i>Molecules</i> , 2020, 25, 423.	1.7	32
53	Properties of the humic-like material arising from the photo-transformation of l-tyrosine. <i>Science of the Total Environment</i> , 2016, 545-546, 434-444.	3.9	31
54	New Insights on the Photodegradation of Caffeine in the Presence of Bio-Based Substances-Magnetic Iron Oxide Hybrid Nanomaterials. <i>Materials</i> , 2018, 11, 1084.	1.3	31

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55	Significant role of iron on the fate and photodegradation of enrofloxacin. <i>Chemosphere</i> , 2021, 270, 129791.	4.2	31
56	Phenanthrene degradation using Fe(III)-EDDS photoactivation under simulated solar light: A model for soil washing effluent treatment. <i>Chemosphere</i> , 2019, 236, 124366.	4.2	28
57	Cubic cobalt and zinc co-doped magnetite nanoparticles for persulfate and hydrogen peroxide activation towards the effective photodegradation of Sulfalene. <i>Chemical Engineering Journal</i> , 2021, 404, 126391.	6.6	27
58	Evaluation of modeled cloud chemistry mechanism against laboratory irradiation experiments: The HxOy/iron/carboxylic acid chemical system. <i>Atmospheric Environment</i> , 2013, 77, 686-695.	1.9	26
59	CÃ©zeaux-Aulnat-Opme-Puy De DÃ©me: a multi-site for the long-term survey of the tropospheric composition and climate change. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 3413-3445.	1.2	26
60	Could triplet-sensitised transformation of phenolic compounds represent a source of fulvic-like substances in natural waters?. <i>Chemosphere</i> , 2013, 90, 881-884.	4.2	25
61	Tryptophan and tryptophan-like substances in cloud water: Occurrence and photochemical fate. <i>Atmospheric Environment</i> , 2016, 137, 53-61.	1.9	25
62	Synthesis of a magnetically separable LDH-based S-scheme nano-heterojunction for the activation of peroxymonosulfate towards the efficient visible-light photodegradation of diethyl phthalate. <i>Applied Surface Science</i> , 2021, 559, 149906.	3.1	25
63	Phototransformation of 4-phenoxyphenol sensitised by 4-carboxybenzophenone: Evidence of new photochemical pathways in the bulk aqueous phase and on the surface of aerosol deliquescent particles. <i>Atmospheric Environment</i> , 2013, 81, 569-578.	1.9	24
64	Mineralization Enhancement of Pharmaceutical Contaminants by Radical-Based Oxidation Promoted by Oxide-Bound Metal Ions. <i>Environmental Science &amp; Technology</i> , 2020, 54, 476-485.	4.6	22
65	Phenanthrene decomposition in soil washing effluents using UVB activation of hydrogen peroxide and peroxydisulfate. <i>Chemosphere</i> , 2021, 263, 127996.	4.2	22
66	Abiotic Degradation of Iodosulfuron-methyl-ester in Aqueous Solution. <i>Journal of Agricultural and Food Chemistry</i> , 2005, 53, 5347-5352.	2.4	21
67	Irradiation of fluvastatin in water. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007, 189, 264-271.	2.0	21
68	Phosphate-Linked Silibinin Dimers (PLSd): New Promising Modified Metabolites. <i>Molecules</i> , 2017, 22, 1323.	1.7	21
69	Degradation of Acetaminophen via UVA-induced advanced oxidation processes (AOPs). Involvement of different radical species: HO $\cdot$ , SO $_4^{\cdot-}$ and HO $_2$ /O $_2^{\cdot-}$ . <i>Chemosphere</i> , 2020, 258, 127268.	4.2	21
70	Formation of Toxic Unsaturated Multifunctional and Organosulfur Compounds From the Photosensitized Processing of Fluorene and DMSO at the Air-Water Interface. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031839.	1.2	19
71	Efficient removal of estrogenic compounds in water by MnIII-activated peroxymonosulfate: Mechanisms and application in sewage treatment plant water. <i>Environmental Pollution</i> , 2021, 288, 117728.	3.7	18
72	Enhancement by anthraquinone-2-sulphonate of the photonitration of phenol by nitrite: Implication for the photoproduction of nitrogen dioxide by coloured dissolved organic matter in surface waters. <i>Chemosphere</i> , 2010, 81, 1401-1406.	4.2	17

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73	Photochemical and photosensitised reactions involving 1-nitronaphthalene and nitrite in aqueous solution. <i>Photochemical and Photobiological Sciences</i> , 2011, 10, 601-609.	1.6	17
74	An experimental methodology to measure the reaction rate constants of processes sensitised by the triplet state of 4-carboxybenzophenone as a proxy of the triplet states of chromophoric dissolved organic matter, under steady-state irradiation conditions. <i>Environmental Sciences: Processes and Impacts</i> , 2018, 20, 1007-1019.	1.7	17
75	Photochemical fate and eco-genotoxicity assessment of the drug etodolac. <i>Science of the Total Environment</i> , 2015, 518-519, 258-265.	3.9	16
76	Formation of highly oxygenated multifunctional compounds from cross-reactions of carbonyl compounds in the atmospheric aqueous phase. <i>Atmospheric Environment</i> , 2019, 219, 117046.	1.9	16
77	Enhancement of iron-mediated activation of persulfate using catechin: From generation of reactive species to atenolol degradation in water. <i>Science of the Total Environment</i> , 2019, 697, 134188.	3.9	16
78	A new source of ammonia and carboxylic acids in cloud water: The first evidence of photochemical process involving an iron-amino acid complex. <i>Atmospheric Environment</i> , 2018, 195, 179-186.	1.9	15
79	Fe <sub>2.5</sub> Co <sub>0.3</sub> Zn <sub>0.2</sub> O <sub>4</sub> /CuCr-LDH as a visible-light-responsive photocatalyst for the degradation of caffeine, bisphenol A, and simazine in pure water and real wastewater under photo-Fenton-like degradation process. <i>Chemosphere</i> , 2022, 291, 132920.	4.2	15
80	The impact of the hydroxyl radical photochemical sources on the rivastigmine drug transformation in mimetic and natural waters. <i>Water Research</i> , 2013, 47, 5422-5430.	5.3	14
81	First evaluation of the effect of microorganisms on steady state hydroxyl radical concentrations in atmospheric waters. <i>Chemosphere</i> , 2018, 212, 715-722.	4.2	14
82	Caffeine degradation using peroxydisulfate and peroxymonosulfate in the presence of Mn <sub>2</sub> O <sub>3</sub> . Efficiency, reactive species formation and application in sewage treatment plant water. <i>Journal of Cleaner Production</i> , 2021, 328, 129652.	4.6	14
83	Evidence of an Important Role of Photochemistry in the Attenuation of the Secondary Contaminant 3,4-Dichloroaniline in Paddy Water. <i>Environmental Science &amp; Technology</i> , 2018, 52, 6334-6342.	4.6	13
84	Photo-activation of persulfate and hydrogen peroxide by humic acid coated magnetic particles for Bisphenol A degradation. <i>Catalysis Today</i> , 2021, 361, 43-49.	2.2	13
85	Effect of positional isomerism on the abiotic degradation of pesticides: Case of m- and p-imazamethabenz-methyl. <i>Chemosphere</i> , 2007, 68, 464-471.	4.2	12
86	A Review of Manganese(III) (Oxyhydr)Oxides Use in Advanced Oxidation Processes. <i>Molecules</i> , 2021, 26, 5748.	1.7	11
87	Bismuth catalyst mediated degradation of p-hydroxyphenylacetic acid: Photoactivation, interfacial mechanism, and influence of some critical parameters. <i>Chemical Engineering Journal</i> , 2018, 349, 822-828.	6.6	10
88	A new insight into ethoxyquin fate in surface waters: Stability, direct and indirect photochemical behaviour and the identification of main products. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2015, 311, 118-126.	2.0	9
89	Photochemical processes induced by the irradiation of 4-hydroxybenzophenone in different solvents. <i>Photochemical and Photobiological Sciences</i> , 2015, 14, 2087-2096.	1.6	9
90	Photochemical transformation of benzotriazole, relevant to sunlit surface waters: Assessing the possible role of triplet-sensitised processes. <i>Science of the Total Environment</i> , 2016, 566-567, 712-721.	3.9	9

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91	Multiphase Chemistry of Ozone on Fulvic Acids Solutions. <i>Environmental Science &amp; Technology</i> , 2008, 42, 9165-9170.	4.6	8
92	Impacts of environmental levels of hydrogen peroxide and oxyanions on the redox activity of MnO <sub>2</sub> particles. <i>Environmental Sciences: Processes and Impacts</i> , 2021, 23, 1351-1361.	1.7	7
93	Photosensitized Degradation of DMSO Initiated by PAHs at the Air-Water Interface, as an Alternative Source of Organic Sulfur Compounds to the Atmosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD035346.	1.2	7
94	Atmospheric Aqueous-Phase Photoreactivity: Correlation Between the Hydroxyl Radical Photoformation and Pesticide Degradation Rate in Atmospherically Relevant Waters. <i>Photochemistry and Photobiology</i> , 2012, 88, 32-37.	1.3	5
95	Toward a better understanding of ferric-oxalate complex photolysis: The role of the aqueous/air interface of droplet. <i>Chemosphere</i> , 2022, 289, 133127.	4.2	4
96	Phototransformation of the drug rivastigmine: Photoinduced cleavage of benzyl-nitrogen sigma bond. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2012, 239, 1-6.	2.0	3
97	Innovative depollution treatment using multi-valent iron species: from fundamental study to application in municipal wastewater. <i>Environmental Science and Pollution Research</i> , 2020, 27, 19736-19745.	2.7	3
98	Synthesis of dimeric phenylethanoids isolated from olive oil mill wastewaters. <i>Natural Product Research</i> , 2006, 20, 792-797.	1.0	2
99	Enhanced Degradation of Paracetamol by the Fe(III)-Sulfite System under UVA Irradiation. <i>Molecules</i> , 2022, 27, 2248.	1.7	2