Valter Maurino

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184 papers	7,762 citations	49 h-index	80 g-index
191 ext. papers	8,521 ext. citations	7.2 avg, IF	5.78 L-index

#	Paper	IF	Citations
184	Photocatalytic Transformation of Organic Compounds in the Presence of Inorganic Anions. 1. Hydroxyl-Mediated and Direct Electron-Transfer Reactions of Phenol on a Titanium Dioxide□fluoride System. *Langmuir*, **2000**, 16, 2632-2641	4	435
183	Photocatalytic degradation of atrazine and other s-triazine herbicides. *Environmental Science & Technology*, **1990**, 24, 1559-1565	10.3	359
182	Photocatalytic Transformation of Organic Compounds in the Presence of Inorganic Ions. 2. Competitive Reactions of Phenol and Alcohols on a Titanium Dioxide□fluoride System□*Langmuir*, **2000**, 16, 8964-8972	4	355
181	Sources and sinks of hydroxyl radicals upon irradiation of natural water samples. *Environmental Science & Technology*, **2006**, 40, 3775-81	10.3	271
180	Indirect photochemistry in sunlit surface waters: photoinduced production of reactive transient species. *Chemistry - A European Journal*, **2014**, 20, 10590-606	4.8	235
179	Activation of persulfate by irradiated magnetite: implications for the degradation of phenol under heterogeneous photo-Fenton-like conditions. *Environmental Science & Technology*, **2015**, 49, 1043-50	10.3	184
178	Photochemical reactions in the tropospheric aqueous phase and on particulate matter. *Chemical Society Reviews*, **2006**, 35, 441-53	58.5	164
177	Sustained production of H2O2 on irradiated TiO2- fluoride systems. *Chemical Communications*, **2005**, 2627-9	5.8	143
176	Degradation of phenol and benzoic acid in the presence of a TiO2-based heterogeneous photocatalyst. *Applied Catalysis B: Environmental*, **2005**, 58, 79-88	21.8	141
175	Photocatalytic degradation of nonylphenol ethoxylated surfactants. *Environmental Science & Technology*, **1989**, 23, 1380-1385	10.3	141
174	Photo-Fenton oxidation of phenol with magnetite as iron source. *Applied Catalysis B: Environmental*, **2014**, 154-155, 102-109	21.8	111
173	Inhibition vs. enhancement of the nitrate-induced phototransformation of organic substrates by the *OH scavengers bicarbonate and carbonate. *Water Research*, **2009**, 43, 4718-28	12.5	106
172	Fe(III)-enhanced sonochemical degradation of methylene blue in aqueous solution. *Environmental Science & Technology*, **2005**, 39, 8936-42	10.3	106
171	Influence of agglomeration and aggregation on the photocatalytic activity of TiO2 nanoparticles. *Applied Catalysis B: Environmental*, **2017**, 216, 80-87	21.8	105
170	Photochemical fate of carbamazepine in surface freshwaters: laboratory measures and modeling. *Environmental Science & Technology*, **2012**, 46, 8164-73	10.3	103
169	Effect of fluorination on the surface properties of titania P25 powder: an FTIR study. *Langmuir*, **2010**, 26, 2521-7	4	103
168	Enhancement of dye sonochemical degradation by some inorganic anions present in natural waters. *Applied Catalysis B: Environmental*, **2008**, 77, 308-316	21.8	97

167	Modelling the photochemical fate of ibuprofen in surface waters. *Water Research*, **2011**, 45, 6725-36	12.5	96
166	Photochemincal processes involving nitrite in surface water samples. *Aquatic Sciences*, **2007**, 69, 71-85	2.5	91
165	Assessing the photochemical transformation pathways of acetaminophen relevant to surface waters: transformation kinetics, intermediates, and modelling. *Water Research*, **2014**, 53, 235-48	12.5	86
164	New processes in the environmental chemistry of nitrite. 2. The role of hydrogen peroxide. *Environmental Science & Technology*, **2003**, 37, 4635-41	10.3	86
163	New processes in the environmental chemistry of nitrite: nitration of phenol upon nitrite photoinduced oxidation. *Environmental Science & Technology*, **2002**, 36, 669-76	10.3	84
162	The role of colloidal particles in the photodegradation of organic compounds of environmental concern in aquatic systems. *Advances in Colloid and Interface Science*, **1990**, 32, 271-316	14.3	84
161	The fate of organic nitrogen under photocatalytic conditions: degradation of nitrophenols and aminophenols on irradiated TiO2. *Journal of Photochemistry and Photobiology A: Chemistry*, **1997**, 109, 171-176	4.7	83
160	Light-assisted 1,4-dioxane degradation. *Chemosphere*, **1997**, 35, 2675-2688	8.4	80
159	Phenol chlorination and photochlorination in the presence of chloride ions in homogeneous aqueous solution. *Environmental Science & Technology*, **2005**, 39, 5066-75	10.3	72
158	Beyond Shape Engineering of TiO2Nanoparticles: Post-Synthesis Treatment Dependence of Surface Hydration, Hydroxylation, Lewis Acidity and Photocatalytic Activity of TiO2Anatase Nanoparticles with Dominant {001} or {101} Facets. *ACS Applied Nano Materials*, **2018**, 1, 5355-5365	5.6	68
157	Aqueous atmospheric chemistry: formation of 2,4-dinitrophenol upon nitration of 2-nitrophenol and 4-nitrophenol in solution. *Environmental Science & Technology*, **2005**, 39, 7921-31	10.3	67
156	Photochemical transformation of ibuprofen into harmful 4-isobutylacetophenone: pathways, kinetics, and significance for surface waters. *Water Research*, **2013**, 47, 6109-21	12.5	66
155	Glycerol as a probe molecule to uncover oxidation mechanism in photocatalysis. *Applied Catalysis B: Environmental*, **2012**, 128, 135-143	21.8	65
154	Photocatalytic metamaterials: TiO2 inverse opals. *Chemical Communications*, **2011**, 47, 6147-9	5.8	65
153	Classification of Nebbiolo-based wines from Piedmont (Italy) by means of solid-phase microextraction-gas chromatography-mass spectrometry of volatile compounds. *Journal of Chromatography A*, **2002**, 943, 123-37	4.5	63
152	Phenol photonitration upon UV irradiation of nitrite in aqueous solution I: effects of oxygen and 2-propanol. *Chemosphere*, **2001**, 45, 893-902	8.4	63
151	Modeling phototransformation reactions in surface water bodies: 2,4-dichloro-6-nitrophenol as a case study. *Environmental Science & Technology*, **2011**, 45, 209-14	10.3	62
150	Shape-controlled TiO2 nanoparticles and TiO2 P25 interacting with CO and H2O2 molecular probes: a synergic approach for surface structure recognition and physico-chemical understanding. *Physical Chemistry Chemical Physics*, **2013**, 15, 307-15	3.6	61

149	Pesticide by-products in the Rhône delta (Southern France). The case of 4-chloro-2-methylphenol and of its nitroderivative. *Chemosphere*, **2009**, 74, 599-604	8.4	60
148	Evidence of the water-cage effect on the photolysis of NO_3^- and $FeOH^{2+}$. Implications of this effect and of H_2O_2 surface accumulation on photochemistry at the air–water interface of atmospheric droplets. *Atmospheric Environment*, **2010**, 44, 4859-4866	5.3	59
147	Photochemical transformation of atrazine and formation of photointermediates under conditions relevant to sunlit surface waters: laboratory measures and modelling. *Water Research*, **2013**, 47, 6211-22	12.5	58
146	Nitration and photonitration of naphthalene in aqueous systems. *Environmental Science & Technology*, **2005**, 39, 1101-10	10.3	58
145	Effect of humic acids on the Fenton degradation of phenol. *Environmental Chemistry Letters*, **2004**, 2, 129-133	13.3	56
144	Photocatalytic degradation of bentazon by TiO_2 particles. *Chemosphere*, **1989**, 18, 1437-1445	8.4	56
143	Photogeneration of reactive transient species upon irradiation of natural water samples: Formation quantum yields in different spectral intervals, and implications for the photochemistry of surface waters. *Water Research*, **2015**, 73, 145-56	12.5	55
142	The pH-dependent photochemistry of anthraquinone-2-sulfonate. *Photochemical and Photobiological Sciences*, **2010**, 9, 323-30	4.2	55
141	Optical and photochemical characterization of chromophoric dissolved organic matter from lakes in Terra Nova Bay, Antarctica. Evidence of considerable photoreactivity in an extreme environment. *Environmental Science & Technology*, **2013**, 47, 14089-98	10.3	53
140	Effect of dissolved organic compounds on the photodegradation of the herbicide MCPA in aqueous solution. *Water Research*, **2010**, 44, 6053-62	12.5	50
139	Assessing the phototransformation of diclofenac, clofibric acid and naproxen in surface waters: Model predictions and comparison with field data. *Water Research*, **2016**, 105, 383-394	12.5	49
138	Photoinduced reactions occurring on activated carbons. A combined photooxidation and ESR study. *Applied Catalysis A: General*, **2013**, 452, 1-8	5.1	49
137	Chemical and optical phototransformation of dissolved organic matter. *Water Research*, **2012**, 46, 3197-207	12.5	49
136	Photochemical production of organic matter triplet states in water samples from mountain lakes, located below or above the tree line. *Chemosphere*, **2012**, 88, 1208-13	8.4	49
135	Nitration and hydroxylation of benzene in the presence of nitrite/nitrous acid in aqueous solution. *Chemosphere*, **2004**, 56, 1049-59	8.4	49
134	New insights into the environmental photochemistry of 5-chloro-2-(2,4-dichlorophenoxy)phenol (triclosan): reconsidering the importance of indirect photoreactions. *Water Research*, **2015**, 72, 271-80	12.5	46
133	Phototransformation of anthraquinone-2-sulphonate in aqueous solution. *Photochemical and Photobiological Sciences*, **2012**, 11, 1445-53	4.2	46
132	Photo-Fenton reaction in the presence of morphologically controlled hematite as iron source. *Journal of Photochemistry and Photobiology A: Chemistry*, **2015**, 307-308, 99-107	4.7	45

131	Formation of nitrophenols upon UV irradiation of phenol and nitrate in aqueous solutions and in TiO2 aqueous suspensions. *Chemosphere*, **2001**, 44, 237-48	8.4	45
130	Light-induced generation of radicals on semiconductor-free carbon photocatalysts. *Applied Catalysis A: General*, **2013**, 453, 310-315	5.1	44
129	Photocatalytic transformation of sulfonylurea herbicides over irradiated titanium dioxide particles. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **1999**, 151, 329-338	5.1	44
128	A quantitative assessment of the production of •OH and additional oxidants in the dark Fenton reaction: Fenton degradation of aromatic amines. *RSC Advances*, **2013**, 3, 26443	3.7	43
127	Transformation of phenolic compounds upon UVA irradiation of anthraquinone-2-sulfonate. *Photochemical and Photobiological Sciences*, **2008**, 7, 321-7	4.2	43
126	Formic Acid Photoreforming for Hydrogen Production on Shape-Controlled Anatase TiO2 Nanoparticles: Assessment of the Role of Fluorides, {101}/{001} Surfaces Ratio, and Platinization. *ACS Catalysis*, **2019**, 9, 6692-6697	13.1	42
125	Formation of hydroxyl radicals by irradiated 1-nitronaphthalene (1NN): oxidation of hydroxyl ions and water by the 1NN triplet state. *Photochemical and Photobiological Sciences*, **2011**, 10, 1817-24	4.2	42
124	Theoretical and experimental evidence of the photonitration pathway of phenol and 4-chlorophenol: a mechanistic study of environmental significance. *Photochemical and Photobiological Sciences*, **2012**, 11, 418-24	4.2	38
123	Assessing the occurrence of the dibromide radical ($Br_2^{\bullet-}$) in natural waters: measures of triplet-sensitised formation, reactivity, and modelling. *Science of the Total Environment*, **2012**, 439, 299-306	10.2	37
122	Quantification of singlet oxygen and hydroxyl radicals upon UV irradiation of surface water. *Environmental Chemistry Letters*, **2010**, 8, 193-198	13.3	37
121	Phenol photonitration upon UV irradiation of nitrite in aqueous solution II: effects of pH and TiO2. *Chemosphere*, **2001**, 45, 903-10	8.4	37
120	Influence of redox conditions and rice straw incorporation on nitrogen availability in fertilized paddy soils. *Biology and Fertility of Soils*, **2014**, 50, 755-764	6.1	36
119	Assessing the transformation kinetics of 2- and 4-nitrophenol in the atmospheric aqueous phase. Implications for the distribution of both nitroisomers in the atmosphere. *Atmospheric Environment*, **2009**, 43, 2321-2327	5.3	36
118	Photostability and photolability of dissolved organic matter upon irradiation of natural water samples under simulated sunlight. *Aquatic Sciences*, **2009**, 71, 34-45	2.5	36
117	Modelling the occurrence and reactivity of the carbonate radical in surface freshwater. *Comptes Rendus Chimie*, **2009**, 12, 865-871	2.7	36
116	PM10 size distribution of metals and environmental-sanitary risk analysis in the city of Torino. *Chemosphere*, **2014**, 112, 210-6	8.4	35
115	Shape-engineered titanium dioxide nanoparticles (TiO-NPs): cytotoxicity and genotoxicity in bronchial epithelial cells. *Food and Chemical Toxicology*, **2019**, 127, 89-100	4.7	34
114	Photochemical generation of photoactive compounds with fulvic-like and humic-like fluorescence in aqueous solution. *Chemosphere*, **2014**, 111, 529-36	8.4	34

113	Dark production of hydroxyl radicals by aeration of anoxic lake water. *Science of the Total Environment*, **2015**, 527-528, 322-7	10.2	33
112	Heterogeneous photocatalytic transformations of s-triazine derivatives. *Research on Chemical Intermediates*, **1997**, 23, 291-310	2.8	32
111	Transformation of 2,4,6-trimethylphenol and furfuryl alcohol, photosensitised by Aldrich humic acids subject to different filtration procedures. *Chemosphere*, **2013**, 90, 306-11	8.4	31
110	Size resolved metal distribution in the PM matter of the city of Turin (Italy). *Chemosphere*, **2016**, 147, 477-89	8.4	30
109	Photocatalytic transformations of hydrocarbons at the sea water/air interface under solar radiation. *Marine Chemistry*, **1997**, 58, 361-372	3.7	30
108	Formation and reactivity of the dichloride radical (Cl2(-•)) in surface waters: a modelling approach. *Chemosphere*, **2014**, 95, 464-9	8.4	29
107	On the effect of 2-propanol on phenol photonitration upon nitrate photolysis. *Journal of Photochemistry and Photobiology A: Chemistry*, **2011**, 224, 68-70	4.7	28
106	Bicarbonate-enhanced transformation of phenol upon irradiation of hematite, nitrate, and nitrite. *Photochemical and Photobiological Sciences*, **2009**, 8, 91-100	4.2	28
105	Comparison of different probe molecules for the quantification of hydroxyl radicals in aqueous solution. *Environmental Chemistry Letters*, **2010**, 8, 95-100	13.3	28
104	The atmospheric chemistry of hydrogen peroxide: a review. *Annali Di Chimica*, **2003**, 93, 477-88		28
103	Modelling the occurrence and reactivity of hydroxyl radicals in surface waters: implications for the fate of selected pesticides. *International Journal of Environmental Analytical Chemistry*, **2010**, 90, 260-275	1.8	27
102	Phenol nitration upon oxidation of nitrite by Mn(III,IV) (hydr)oxides. *Chemosphere*, **2004**, 55, 941-9	8.4	27
101	Photochemical Formation of Nitrite and Nitrous Acid (HONO) upon Irradiation of Nitrophenols in Aqueous Solution and in Viscous Secondary Organic Aerosol Proxy. *Environmental Science & Technology*, **2017**, 51, 7486-7495	10.3	27
100	Surface features of TiO2 nanoparticles: combination modes of adsorbed CO probe the stepping of (101) facets. *Physical Chemistry Chemical Physics*, **2013**, 15, 13391-9	3.6	26
99	Phenol transformation and dimerisation, photosensitised by the triplet state of 1-nitronaphthalene: A possible pathway to humic-like substances (HULIS) in atmospheric waters. *Atmospheric Environment*, **2013**, 70, 318-327	5.3	26
98	A model approach to assess the long-term trends of indirect photochemistry in lake water. The case of Lake Maggiore (NW Italy). *Science of the Total Environment*, **2011**, 409, 3463-71	10.2	26
97	Photoelectrochemical study of TiO2 inverse opals. *Journal of Materials Chemistry*, **2011**, 21, 19144		26
96	On the effect of pH in aromatic photonitration upon nitrate photolysis. *Chemosphere*, **2007**, 66, 650-6	8.4	26

95	Phenol Photonitration and Photonitrosation upon Nitrite Photolysis in basic solution. *International Journal of Environmental Analytical Chemistry*, **2004**, 84, 493-504	1.8	26
94	DEGRADATION OF ATRAZINE IN SOIL THROUGH INDUCED PHOTOCATALYTIC PROCESSES. *Soil Science*, **1990**, 150, 523-526	0.9	26
93	Considerable Fenton and photo-Fenton reactivity of passivated zero-valent iron. *RSC Advances*, **2016**, 6, 86752-86761	3.7	25
92	The Role of Surface Texture on the Photocatalytic H2 Production on TiO2. *Catalysts*, **2019**, 9, 32	4	24
91	Could triplet-sensitised transformation of phenolic compounds represent a source of fulvic-like substances in natural waters?. *Chemosphere*, **2013**, 90, 881-4	8.4	24
90	Detection of Nitro-Substituted Polycyclic Aromatic Hydrocarbons in the Antarctic Airborne Particulate. *International Journal of Environmental Analytical Chemistry*, **2001**, 79, 257-272	1.8	24
89	Photochemical transformation of phenylurea herbicides in surface waters: a model assessment of persistence, and implications for the possible generation of hazardous intermediates. *Chemosphere* , **2015**, 119, 601-607	8.4	23
88	Low to negligible photoactivity of lake-water matter in the size range from 0.1 to 5 Ɱm. *Chemosphere*, **2011**, 83, 1480-5	8.4	23
87	Spectrophotometric characterisation of surface lakewater samples: implications for the quantification of nitrate and the properties of dissolved organic matter. *Annali Di Chimica*, **2007**, 97, 1107-16		23
86	Formation of organobrominated compounds in the presence of bromide under simulated atmospheric aerosol conditions. *ChemSusChem*, **2008**, 1, 197-204	8.3	23
85	New strategies for the determination of phenylurea pesticides by gas chromatography with hot splitless inlet systems. *Journal of Chromatography A*, **2001**, 910, 79-86	4.5	23
84	Acetylene oligomerization on the surface of TiO2: a step forward in the in situ synthesis of nanostructured carbonaceous structures on the surface of photoactive oxides. *Journal of Materials Chemistry A*, **2014**, 2, 12247-12254	13	22
83	Suppression of inhibition of substrate photodegradation by scavengers of hydroxyl radicals: the solvent-cage effect of bromide on nitrate photolysis. *Environmental Chemistry Letters*, **2009**, 7, 337-342	13.3	22
82	Laboratory and field evidence of the photonitration of 4-chlorophenol to 2-nitro-4-chlorophenol and of the associated bicarbonate effect. *Environmental Science and Pollution Research*, **2010**, 17, 1063-9	5.1	21
81	Photoinduced halophenol formation in the presence of iron(III) species or cadmium sulfide. *Journal of Photochemistry and Photobiology A: Chemistry*, **2005**, 170, 61-67	4.7	21
80	Transformations of Benzene Photoinduced by Nitrate Salts and Iron Oxide. *Journal of Atmospheric Chemistry*, **2005**, 52, 259-281	3.2	21
79	A proof of the direct hole transfer in photocatalysis: The case of melamine. *Applied Catalysis A: General*, **2016**, 521, 57-67	5.1	20
78	Phenol transformation photosensitised by quinoid compounds. *Physical Chemistry Chemical Physics*, **2011**, 13, 11213-21	3.6	20

77	An empirical, quantitative approach to predict the reactivity of some substituted aromatic compounds towards reactive radical species (Cl2-*, Br2-*, *NO2, SO3-*, SO4-*) in aqueous solution. *Environmental Science and Pollution Research*, **2006**, 13, 212-4	5.1	20
76	Reactions Induced in Natural Waters by Irradiation of Nitrate and Nitrite Ions221-253		20
75	Boosting visible light conversion in the confined pore space of nanoporous carbons. *Carbon*, **2016**, 96, 98-104	10.4	19
74	Phototransformation of Acesulfame K in surface waters: Comparison of two techniques for the measurement of the second-order rate constants of indirect photodegradation, and modelling of photoreaction kinetics. *Chemosphere*, **2017**, 186, 185-192	8.4	19
73	Influence of Zn(II) adsorption on the photocatalytic activity and the production of H2O2 over irradiated TiO2. *Research on Chemical Intermediates*, **2007**, 33, 319-332	2.8	19
72	Effect of selected organic and inorganic snow and cloud components on the photochemical generation of nitrite by nitrate irradiation. *Chemosphere*, **2007**, 68, 2111-7	8.4	19
71	Photochemical transformation of anionic 2-nitro-4-chlorophenol in surface waters: laboratory and model assessment of the degradation kinetics, and comparison with field data. *Science of the Total Environment*, **2012**, 426, 296-303	10.2	18
70	Modelling lake-water photochemistry: three-decade assessment of the steady-state concentration of photoreactive transients (•OH, CO3(-•) and (3)CDOM(*)) in the surface water of polymictic Lake Peipsi (Estonia/Russia). *Chemosphere*, **2013**, 90, 2589-96	8.4	18
69	Photodegradation of nitrite in lake waters: role of dissolved organic matter. *Environmental Chemistry*, **2009**, 6, 407	3.2	18
68	Improved procedure for n-hexyl chloroformate-mediated derivatization of highly hydrophilic substances directly in water: hydroxyaminic compounds. *Journal of Chromatography A*, **1998**, 793, 307-316	4.5	18
67	Aromatic photonitration in homogeneous and heterogeneous aqueous systems. *Environmental Science and Pollution Research*, **2003**, 10, 321-4	5.1	18
66	Ultratrace determination of highly hydrophilic compounds by 2,2,3,3,4,4,5,5-octafluoropentyl chloroformate-mediated derivatization directly in water. *Journal of the American Society for Mass Spectrometry*, **1999**, 10, 1328-1336	3.5	17
65	A model assessment of the importance of direct photolysis in the photo-fate of cephalosporins in surface waters: Possible formation of toxic intermediates. *Chemosphere*, **2015**, 134, 452-8	8.4	16
64	Photosensitised humic-like substances (HULIS) formation processes of atmospheric significance: a review. *Environmental Science and Pollution Research*, **2014**, 21, 11614-22	5.1	16
63	Phototransformation pathways of the fungicide dimethomorph ((E,Z) 4-[3-(4-chlorophenyl)-3-(3,4-dimethoxyphenyl)-1-oxo-2-propenyl]morpholine), relevant to sunlit surface waters. *Science of the Total Environment*, **2014**, 500-501, 351-60	10.2	15
62	UV□is spectral modifications of water samples under irradiation: Lake vs. subterranean water. *Journal of Photochemistry and Photobiology A: Chemistry*, **2013**, 251, 85-93	4.7	15
61	n-3 polyunsaturated fatty acids worsen inflammation and fibrosis in experimental nonalcoholic steatohepatitis. *Liver International*, **2014**, 34, 918-30	7.9	15
60	Different approaches for the solar photocatalytic removal of micro-contaminants from aqueous environment: Titania vs. hybrid magnetic iron oxides. *Catalysis Today*, **2019**, 328, 164-171	5.3	15

59	Phenol transformation induced by UVA photolysis of the complex FeCl2+. *Environmental Chemistry Letters*, **2008**, 6, 29-34	13.3	14
58	Shape engineered TiO2 nanoparticles in Caenorhabditis elegans: a Raman imaging based approach to assist tissue-specific toxicological studies. *RSC Advances*, **2016**, 6, 70501-70509	3.7	14
57	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. *Environmental Sciences: Processes and Impacts*, **2018**, 20, 1007-1019	4.3	13
56	Effects of climate change on surface-water photochemistry: a review. *Environmental Science and Pollution Research*, **2014**, 21, 11770-80	5.1	13
55	Photochemical and photosensitised reactions involving 1-nitronaphthalene and nitrite in aqueous solution. *Photochemical and Photobiological Sciences*, **2011**, 10, 601-9	4.2	13
54	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. *Chemosphere*, **2010**, 81, 1401-6	8.4	13
53	Seasonal and water column trends of the relative role of nitrate and nitrite as *OH sources in surface waters. *Annali Di Chimica*, **2007**, 97, 699-711		13
52	Assessing the steady-state [*NO2] in environmental samples. Implication for aromatic photonitration processes induced by nitrate and nitrite. *Environmental Science and Pollution Research*, **2007**, 14, 241-3	5.1	13
51	The fate of nitrogen upon nitrite irradiation: Formation of dissolved vs. gas-phase species. *Journal of Photochemistry and Photobiology A: Chemistry*, **2015**, 307-308, 30-34	4.7	12
50	Cyanuric Acid-Based Eluent for Suppressed Anion Chromatography. *Analytical Chemistry*, **1997**, 69, 3333-3838		12
49	A model to predict the steady-state concentration of hydroxyl radicals in the surface layer of natural waters. *Annali Di Chimica*, **2007**, 97, 685-98		12
48	Impacts of borehole heat exchangers (BHEs) on groundwater quality: the role of heat-carrier fluid and borehole grouting. *Environmental Earth Sciences*, **2018**, 77, 1	2.9	11
47	An overview of possible processes able to account for the occurrence of nitro-PAHs in Antarctic particulate matter. *Microchemical Journal*, **2010**, 96, 213-217	4.8	11
46	Surface and Bulk Distribution of Fluorides and Ti3+ Species in TiO2 Nanosheets: Implications on Charge Carrier Dynamics and Photocatalysis. *Journal of Physical Chemistry C*, **2020**, 124, 3141-3149	3.8	11
45	Thin Film Nanocrystalline TiO2 Electrodes: Dependence of Flat Band Potential on pH and Anion Adsorption. *Journal of Nanoscience and Nanotechnology*, **2015**, 15, 3348-58	1.3	10
44	Development of a rapid micro-Raman spectroscopy approach for detection of NIAS in LDPE pellets and extruded films for food packaging applications. *Polymer Testing*, **2019**, 80, 106098	4.5	10
43	Modelling the photochemical generation kinetics of 2-methyl-4-chlorophenol, an intermediate of the herbicide MCPA (2-methyl-4-chlorophenoxyacetic acid) in surface waters. *Aquatic Ecosystem Health and Management*, **2013**, 16, 216-221	1.4	10
42	Photodegradation of 2-ethoxy- and 2-butoxyethanol in the presence of semiconductor particles or organic conducting polymer. *Environmental Technology Letters*, **1989**, 10, 301-310		10

41	Evidence of an Important Role of Photochemistry in the Attenuation of the Secondary Contaminant 3,4-Dichloroaniline in Paddy Water. *Environmental Science & Technology*, **2018**, 52, 6334-6342	10.3	9
40	Glycerol Transformation Through Photocatalysis: A Possible Route to Value Added Chemicals. *Journal of Advanced Oxidation Technologies*, **2008**, 11,		9
39	Modelling the photochemical attenuation pathways of the fibrate drug gemfibrozil in surface waters. *Chemosphere*, **2017**, 170, 124-133	8.4	8
38	Visible-Light-Driven Photocatalytic Transformation of 囧Unsaturated-N-Tosylhydrazones: A Novel Route to Allylic Sulfones. *ChemPhotoChem*, **2017**, 1, 56-59	3.3	8
37	Comparison of binding behavior for molecularly imprinted polymers prepared by hierarchical imprinting or Pickering emulsion polymerization. *Journal of Separation Science*, **2015**, 38, 3661-8	3.4	8
36	Photocatalytic Degradation of Free and Chemically Bound Silicones on Irradiated Titanium Dioxide. *Langmuir*, **1995**, 11, 4440-4444	4	8
35	Machine learning approach for elucidating and predicting the role of synthesis parameters on the shape and size of TiO nanoparticles. *Scientific Reports*, **2020**, 10, 18910	4.9	8
34	Photochemical transformation of benzotriazole, relevant to sunlit surface waters: Assessing the possible role of triplet-sensitised processes. *Science of the Total Environment*, **2016**, 566-567, 712-721	10.2	8
33	A New Model for Nano-TiO2 Crystal Birth and Growth in Hydrothermal Treatment Using an Oriented Attachment Approach. *Crystal Growth and Design*, **2017**, 17, 5640-5651	3.5	7
32	Shape Recognition of Nanoparticles by High-Resolution SEM and TSEM. *Microscopy and Microanalysis*, **2015**, 21, 2401-2402	0.5	7
31	Photochemical processes induced by the irradiation of 4-hydroxybenzophenone in different solvents. *Photochemical and Photobiological Sciences*, **2015**, 14, 2087-96	4.2	7
30	Photocatalytic Mechanisms and Reaction Pathways Drawn from Kinetic and Probe Molecules **2013**, 53-72		7
29	Modelling photochemical transformation of emerging organic pollutants in surface waters: effect of water level fluctuations following outflow or evaporation, relevant to arid and semi-arid environments. *International Journal of Environmental Analytical Chemistry*, **2013**, 93, 1698-1717	1.8	7
28	Carbon Materials as Additives to WO3 for an Enhanced Conversion of Simulated Solar Light. *Frontiers in Materials*, **2016**, 3,	4	7
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