Ana M Amat

List of Publications by Year in Descending Order

73 papers	2,180 citations	26 h-index	45 g-index
81 ext. papers	2,383 ext. citations	9.4 avg, IF	4.55 L-index

#	Paper	IF	Citations
73	Humic-Like Substances as Auxiliaries to Enhance Advanced Oxidation Processes.. *ACS Omega*, **2022**, 7, 3151-3157	3.9	2
72	Assessment of a Novel Photocatalytic TiO2-Zirconia Ultrafiltration Membrane and Combination with Solar Photo-Fenton Tertiary Treatment of Urban Wastewater. *Catalysts*, **2022**, 12, 552	4	1
71	Humic like substances extracted from oil mill wastes in photo-Fenton processes: Characterization, performance and toxicity assesment. *Journal of Environmental Chemical Engineering*, **2021**, 9, 106862	6.8	0
70	Effect of Salinity on UVA-Vis Light Driven Photo-Fenton Process at Acidic and Circumneutral pH. *Water (Switzerland)*, **2021**, 13, 1315	3	5
69	Pentachlorophenol Removal from Water by Soybean Peroxidase and Iron(II) Salts Concerted Action. *Water, Air, and Soil Pollution*, **2019**, 230, 1	2.6	6
68	A new methodology to assess the performance of AOPs in complex samples: Application to the degradation of phenolic compounds by O and O/UV-A-Vis. *Chemosphere*, **2019**, 222, 114-123	8.4	9
67	Unveiling the Dependence between Hydroxyl Radical Generation and Performance of Fenton Systems with Complexed Iron. *ACS Omega*, **2019**, 4, 21698-21703	3.9	5
66	Commercial steel wool used for Zero Valent Iron and as a source of dissolved iron in a combined red-ox process for pentachlorophenol degradation in tap water. *Catalysis Today*, **2019**, 328, 252-258	5.3	9
65	Direct detection of the triphenylpyrylium-derived short-lived intermediates in the photocatalyzed degradation of acetaminophen, acetamiprid, caffeine and carbamazepine. *Journal of Hazardous Materials*, **2018**, 342, 633	12.8	
64	Direct detection of the triphenylpyrylium-derived short-lived intermediates in the photocatalyzed degradation of acetaminophen, acetamiprid, caffeine and carbamazepine. *Journal of Hazardous Materials*, **2018**, 356, 91-97	12.8	11
63	New Route for Valorization of Oil Mill Wastes: Isolation of Humic-Like Substances to be Employed in Solar-Driven Processes for Pollutants Removal. *ACS Omega*, **2018**, 3, 13073-13080	3.9	13
62	Combining ZVI reduction with photo-Fenton process for the removal of persistent pollutants. *Chemical Engineering Journal*, **2017**, 310, 484-490	14.7	38
61	Treatment and reuse of textile wastewaters by mild solar photo-Fenton in the presence of humic-like substances. *Environmental Science and Pollution Research*, **2017**, 24, 12664-12672	5.1	8
60	Time-resolved kinetic assessment of the role of singlet and triplet excited states in the photocatalytic treatment of pollutants at different concentrations. *Applied Catalysis B: Environmental*, **2017**, 203, 381-388	21.8	12
59	Humic-like substances from urban waste as auxiliaries for photo-Fenton treatment: a fluorescence EEM-PARAFAC study. *Photochemical and Photobiological Sciences*, **2017**, 16, 38-45	4.2	29
58	Gaining further insight into photo-Fenton treatment of phenolic compounds commonly found in food processing industry. *Chemical Engineering Journal*, **2016**, 288, 126-136	14.7	17
57	Determination of photostability, biocompatibility and efficiency as photo-Fenton auxiliaries of three different types of soluble bio-based substances (SBO). *Catalysis Today*, **2015**, 252, 177-183	5.3	18

56	Effect of Methylisothiazolinone on Biological Treatment: Efficiency of SBRs and Bioindicative Studies. *Environmental Engineering Science*, **2015**, 32, 479-485	2	8
55	SBO in Water Detoxification: Photo-Fenton Processes at Mild Conditions. *Springer Briefs in Molecular Science*, **2015**, 29-40	0.6	
54	Bio-based substances from urban waste as auxiliaries for solar photo-Fenton treatment under mild conditions: Optimization of operational variables. *Catalysis Today*, **2015**, 240, 39-45	5.3	32
53	Waste sourced bio-based substances for solar-driven wastewater remediation: Photodegradation of emerging pollutants. *Chemical Engineering Journal*, **2014**, 235, 236-243	14.7	52
52	Some ozone advanced oxidation processes to improve the biological removal of selected pharmaceutical contaminants from urban wastewater. *Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering*, **2014**, 49, 410-21	2.3	29
51	Comparison of different TiO2 samples as photocatalyst for the degradation of a mixture of four commercial pesticides. *Journal of Chemical Technology and Biotechnology*, **2014**, 89, 1259-1264	3.5	12
50	Hydroxyl radical as an unlikely key intermediate in the photodegradation of emerging pollutants. *Photochemistry and Photobiology*, **2014**, 90, 1467-9	3.6	7
49	Mechanism considerations for photocatalytic oxidation, ozonation and photocatalytic ozonation of some pharmaceutical compounds in water. *Journal of Environmental Management*, **2013**, 127, 114-24	7.9	68
48	A mechanistic study on the oxidative photodegradation of 2,6-dichlorodiphenylamine-derived drugs: Photo-Fenton versus photocatalysis with a triphenylpyrylium salt. *Applied Catalysis B: Environmental*, **2013**, 140-141, 412-418	21.8	21
47	Application of soluble bio-organic substances (SBO) as photocatalysts for wastewater treatment: Sensitizing effect and photo-Fenton-like process. *Catalysis Today*, **2013**, 209, 176-180	5.3	37
46	Exploring reuse of industrial wastewater from exhaust dyebaths by solar-based photo-Fenton treatment. *Textile Reseach Journal*, **2013**, 83, 1327-1334	1.7	3
45	Photochemical fate of a mixture of emerging pollutants in the presence of humic substances. *Water Research*, **2012**, 46, 4732-40	12.5	93
44	Solar photo-Fenton at mild conditions to treat a mixture of six emerging pollutants. *Chemical Engineering Journal*, **2012**, 198-199, 65-72	14.7	49
43	Organic photocatalysts for the oxidation of pollutants and model compounds. *Chemical Reviews*, **2012**, 112, 1710-50	68.1	302
42	Removal of Pharmaceutics by Solar-Driven Processes. *Springer Briefs in Molecular Science*, **2012**, 77-91	0.6	2
41	A mechanistic study on photocatalysis by thiapyrylium salts. Photodegradation of dimethoate, alachlor and pyrimethanil under simulated sunlight. *Applied Catalysis B: Environmental*, **2012**, 123-124, 208-213	21.8	17
40	Solar photocatalysis as a tertiary treatment to remove emerging pollutants from wastewater treatment plant effluents. *Catalysis Today*, **2011**, 161, 235-240	5.3	144
39	Exploring the applicability of solar driven photocatalytic processes to control infestation by zebra mussel. *Chemical Engineering Journal*, **2011**, 171, 490-494	14.7	9

38	A photophysical approach to investigate the photooxidation mechanism of pesticides: Hydroxyl radical versus electron transfer. *Applied Catalysis B: Environmental*, **2011**, 103, 48-53	21.8	22
37	Effect of organic species on the solar detoxification of water polluted with pesticides. *Journal of Hazardous Materials*, **2011**, 188, 181-7	12.8	7
36	Reactivity of neonicotinoid pesticides with singlet oxygen. *Catalysis Today*, **2010**, 151, 137-142	5.3	37
35	Confirming Pseudomonas putida as a reliable bioassay for demonstrating biocompatibility enhancement by solar photo-oxidative processes of a biorecalcitrant effluent. *Journal of Hazardous Materials*, **2009**, 162, 1223-7	12.8	12
34	Abatement of methidathion and carbaryl from aqueous solutions using organic photocatalysts. *Catalysis Today*, **2009**, 144, 106-111	5.3	20
33	A reliable monitoring of the biocompatibility of an effluent along an oxidative pre-treatment by sequential bioassays and chemical analyses. *Water Research*, **2009**, 43, 784-92	12.5	48
32	Effect of inorganic ions on the solar detoxification of water polluted with pesticides. *Water Research*, **2009**, 43, 4441-50	12.5	39
31	Reactivity of hydroxyl radicals with neonicotinoid insecticides: mechanism and changes in toxicity. *Photochemical and Photobiological Sciences*, **2009**, 8, 1016-23	4.2	54
30	Treatment of Aqueous Solutions Containing Four Commercial Pesticides by Means of TiO2 Solar Photocatalysis. *Journal of Solar Energy Engineering, Transactions of the ASME*, **2008**, 130,	2.3	14
29	Activated sludge respirometry to assess solar detoxification of a metal finishing effluent. *Journal of Hazardous Materials*, **2008**, 153, 905-10	12.8	11
28	Degradation of rosolic acid by advanced oxidation processes: ozonation vs. solar photocatalysis. *Desalination*, **2007**, 212, 114-122	10.3	12
27	Sepiolites as supporting material for organic sensitisers employed in heterogeneous solar photocatalysis. *Journal of Molecular Catalysis A*, **2007**, 271, 221-226		18
26	Detoxification and/or increase of the biodegradability of aqueous solutions of dimethoate by means of solar photocatalysis. *Journal of Hazardous Materials*, **2007**, 146, 447-52	12.8	74
25	Acridine yellow as solar photocatalyst for enhancing biodegradability and eliminating ferulic acid as model pollutant. *Applied Catalysis B: Environmental*, **2007**, 73, 220-226	21.8	50
24	2,4,6-Triphenylthiapyrylium cation as homogeneous solar photocatalyst. *Catalysis Today*, **2007**, 129, 37-42	3.3	10
23	Degradation of Two Commercial Anionic Surfactants by Means of Ozone and/or UV Irradiation. *Environmental Engineering Science*, **2007**, 24, 790-794	2	22
22	Detoxification of Aqueous Solutions Containing the Commercial Pesticide Metasystox by TiO2-Mediated Solar Photocatalysis. *Journal of Solar Energy Engineering, Transactions of the ASME*, **2007**, 129, 74-79	2.3	8
21	Increased biodegradability of Ultracid in aqueous solutions with solar TiO2 photocatalysis. *Chemosphere*, **2007**, 68, 293-300	8.4	32

20	Involvement of triplet excited states in the electron transfer photodegradation of cinnamic acids using pyrylium and thiapyrylium salts as photocatalysts. *Photochemical and Photobiological Sciences* , **2007**, 6, 848-52	4.2	17
19	Detoxification of aqueous solutions of the pesticide Bevnol by solar photocatalysis. *Environmental Chemistry Letters*, **2006**, 3, 169-172	13.3	18
18	Use of ozone and/or UV in the treatment of effluents from board paper industry. *Chemosphere*, **2005**, 60, 1111-7	8.4	69
17	Solar photo-catalysis to remove paper mill wastewater pollutants. *Solar Energy*, **2005**, 79, 393-401	6.8	99
16	Synthesis, loading control and preliminary tests of 2,4,6-triphenylpyrylium supported onto Y-zeolite as solar photocatalyst. *Catalysis Today*, **2005**, 101, 383-388	5.3	19
15	Abatement of Industrial Sulfonic Pollutants by Ozone and UV Radiation. *Environmental Engineering Science*, **2004**, 21, 485-492	2	3
14	Photo-Fenton reaction for the abatement of commercial surfactants in a solar pilot plant. *Solar Energy*, **2004**, 77, 559-566	6.8	70
13	Oxidative degradation of 2,4-xylidine by photosensitization with 2,4,6-triphenylpyrylium: homogeneous and heterogeneous catalysis. *Chemosphere*, **2004**, 57, 1123-30	8.4	17
12	Einlagerung von TPP+-Ionen in Y-Zeolithe durch formalen Ionenaustausch in wässrigem Medium. *Angewandte Chemie*, **2003**, 115, 1691-1693	3.6	1
11	A "camel through the eye of a needle": direct introduction of the TPP+ ion inside Y-zeolites by formal ion exchange in aqueous medium. *Angewandte Chemie - International Edition*, **2003**, 42, 1653-5	16.4	31
10	Ozonisation coupled with biological degradation for treatment of phenolic pollutants: a mechanistically based study. *Chemosphere*, **2003**, 53, 79-86	8.4	71
9	Pyrylium salt-photosensitized degradation of phenolic contaminants present in olive oil wastewater with solar light: Part III. Tyrosol and p-hydroxyphenylacetic acid. *Applied Catalysis B: Environmental*, **2002**, 35, 167-174	21.8	26
8	Stability and performance of silica gel-supported triphenylpyrylium cation as heterogeneous photocatalyst. *Catalysis Today*, **2002**, 76, 113-119	5.3	25
7	Pyrylium salt-photosensitised degradation of phenolic contaminants present in olive oil wastewaters with solar light. *Applied Catalysis B: Environmental*, **2001**, 30, 437-444	21.8	48
6	Abatement of the major contaminants present in olive oil industry wastewaters by different oxidation methods: ozone and/or UV radiation versus solar light. *Water Science and Technology*, **2001**, 44, 325-330	2.2	19
5	Pyrylium salt-photosensitized degradation of phenolic contaminants derived from cinnamic acid with solar light. *Applied Catalysis B: Environmental*, **2000**, 28, 127-133	21.8	39
4	p-Coumaric acid photodegradation with solar light, using a 2,4,6-triphenylpyrylium salt as photosensitizer: A comparison with other oxidation methods. *Applied Catalysis B: Environmental*, **1999**, 23, 205-214	21.8	30
3	Thermolysis of unsaturated dicarboxylic acids in sulfuric acid and oleum. A comparison with the CIMS fragmentation patterns. *Journal of Organic Chemistry*, **1988**, 53, 5480-5484	4.2	7

2	C4H7O2+ ions. Thermochemistry in sulfuric acid solution and chemical-ionization mass spectra relationships. *Journal of Organic Chemistry*, **1987**, 52, 4790-4792	4.2	7
1	Modified photobehavior of carboxylic acid derivatives induced by protonation. *Tetrahedron*, **1987**, 43, 905-910	2.4	5