

Ana M Amat

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Organic photocatalysts for the oxidation of pollutants and model compounds. <i>Chemical Reviews</i> , 2012 , 112, 1710-50	68.1	302
72	Solar photocatalysis as a tertiary treatment to remove emerging pollutants from wastewater treatment plant effluents. <i>Catalysis Today</i> , 2011 , 161, 235-240	5.3	144
71	Solar photo-catalysis to remove paper mill wastewater pollutants. <i>Solar Energy</i> , 2005 , 79, 393-401	6.8	99
70	Photochemical fate of a mixture of emerging pollutants in the presence of humic substances. <i>Water Research</i> , 2012 , 46, 4732-40	12.5	93
69	Detoxification and/or increase of the biodegradability of aqueous solutions of dimethoate by means of solar photocatalysis. <i>Journal of Hazardous Materials</i> , 2007 , 146, 447-52	12.8	74
68	Ozonisation coupled with biological degradation for treatment of phenolic pollutants: a mechanistically based study. <i>Chemosphere</i> , 2003 , 53, 79-86	8.4	71
67	Photo-Fenton reaction for the abatement of commercial surfactants in a solar pilot plant. <i>Solar Energy</i> , 2004 , 77, 559-566	6.8	70
66	Use of ozone and/or UV in the treatment of effluents from board paper industry. <i>Chemosphere</i> , 2005 , 60, 1111-7	8.4	69
65	Mechanism considerations for photocatalytic oxidation, ozonation and photocatalytic ozonation of some pharmaceutical compounds in water. <i>Journal of Environmental Management</i> , 2013 , 127, 114-24	7.9	68
64	Reactivity of hydroxyl radicals with neonicotinoid insecticides: mechanism and changes in toxicity. <i>Photochemical and Photobiological Sciences</i> , 2009 , 8, 1016-23	4.2	54
63	Waste sourced bio-based substances for solar-driven wastewater remediation: Photodegradation of emerging pollutants. <i>Chemical Engineering Journal</i> , 2014 , 235, 236-243	14.7	52
62	Acridine yellow as solar photocatalyst for enhancing biodegradability and eliminating ferulic acid as model pollutant. <i>Applied Catalysis B: Environmental</i> , 2007 , 73, 220-226	21.8	50
61	Solar photo-Fenton at mild conditions to treat a mixture of six emerging pollutants. <i>Chemical Engineering Journal</i> , 2012 , 198-199, 65-72	14.7	49
60	A reliable monitoring of the biocompatibility of an effluent along an oxidative pre-treatment by sequential bioassays and chemical analyses. <i>Water Research</i> , 2009 , 43, 784-92	12.5	48
59	Pyrylium salt-photosensitized degradation of phenolic contaminants present in olive oil wastewaters with solar light. <i>Applied Catalysis B: Environmental</i> , 2001 , 30, 437-444	21.8	48
58	Effect of inorganic ions on the solar detoxification of water polluted with pesticides. <i>Water Research</i> , 2009 , 43, 4441-50	12.5	39
57	Pyrylium salt-photosensitized degradation of phenolic contaminants derived from cinnamic acid with solar light. <i>Applied Catalysis B: Environmental</i> , 2000 , 28, 127-133	21.8	39

56	Combining ZVI reduction with photo-Fenton process for the removal of persistent pollutants. <i>Chemical Engineering Journal</i> , 2017 , 310, 484-490	14.7	38
55	Application of soluble bio-organic substances (SBO) as photocatalysts for wastewater treatment: Sensitizing effect and photo-Fenton-like process. <i>Catalysis Today</i> , 2013 , 209, 176-180	5.3	37
54	Reactivity of neonicotinoid pesticides with singlet oxygen. <i>Catalysis Today</i> , 2010 , 151, 137-142	5.3	37
53	Bio-based substances from urban waste as auxiliaries for solar photo-Fenton treatment under mild conditions: Optimization of operational variables. <i>Catalysis Today</i> , 2015 , 240, 39-45	5.3	32
52	Increased biodegradability of Ultracid in aqueous solutions with solar TiO ₂ photocatalysis. <i>Chemosphere</i> , 2007 , 68, 293-300	8.4	32
51	A "camel through the eye of a needle": direct introduction of the TPP ⁺ ion inside Y-zeolites by formal ion exchange in aqueous medium. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 1653-5	16.4	31
50	p-Coumaric acid photodegradation with solar light, using a 2,4,6-triphenylpyrylium salt as photosensitizer: A comparison with other oxidation methods. <i>Applied Catalysis B: Environmental</i> , 1999 , 23, 205-214	21.8	30
49	Some ozone advanced oxidation processes to improve the biological removal of selected pharmaceutical contaminants from urban wastewater. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2014 , 49, 410-21	2.3	29
48	Humic-like substances from urban waste as auxiliaries for photo-Fenton treatment: a fluorescence EEM-PARAFAC study. <i>Photochemical and Photobiological Sciences</i> , 2017 , 16, 38-45	4.2	29
47	Pyrylium salt-photosensitized degradation of phenolic contaminants present in olive oil wastewater with solar light: Part III. Tyrosol and p-hydroxyphenylacetic acid. <i>Applied Catalysis B: Environmental</i> , 2002 , 35, 167-174	21.8	26
46	Stability and performance of silica gel-supported triphenylpyrylium cation as heterogeneous photocatalyst. <i>Catalysis Today</i> , 2002 , 76, 113-119	5.3	25
45	A photophysical approach to investigate the photooxidation mechanism of pesticides: Hydroxyl radical versus electron transfer. <i>Applied Catalysis B: Environmental</i> , 2011 , 103, 48-53	21.8	22
44	Degradation of Two Commercial Anionic Surfactants by Means of Ozone and/or UV Irradiation. <i>Environmental Engineering Science</i> , 2007 , 24, 790-794	2	22
43	A mechanistic study on the oxidative photodegradation of 2,6-dichlorodiphenylamine-derived drugs: Photo-Fenton versus photocatalysis with a triphenylpyrylium salt. <i>Applied Catalysis B: Environmental</i> , 2013 , 140-141, 412-418	21.8	21
42	Abatement of methidathion and carbaryl from aqueous solutions using organic photocatalysts. <i>Catalysis Today</i> , 2009 , 144, 106-111	5.3	20
41	Synthesis, loading control and preliminary tests of 2,4,6-triphenylpyrylium supported onto Y-zeolite as solar photocatalyst. <i>Catalysis Today</i> , 2005 , 101, 383-388	5.3	19
40	Abatement of the major contaminants present in olive oil industry wastewaters by different oxidation methods: ozone and/or UV radiation versus solar light. <i>Water Science and Technology</i> , 2001 , 44, 325-330	2.2	19
39	Determination of photostability, biocompatibility and efficiency as photo-Fenton auxiliaries of three different types of soluble bio-based substances (SBO). <i>Catalysis Today</i> , 2015 , 252, 177-183	5.3	18

38	Sepiolites as supporting material for organic sensitizers employed in heterogeneous solar photocatalysis. <i>Journal of Molecular Catalysis A</i> , 2007 , 271, 221-226		18
37	Detoxification of aqueous solutions of the pesticide Bevnollby solar photocatalysis. <i>Environmental Chemistry Letters</i> , 2006 , 3, 169-172	13.3	18
36	Gaining further insight into photo-Fenton treatment of phenolic compounds commonly found in food processing industry. <i>Chemical Engineering Journal</i> , 2016 , 288, 126-136	14.7	17
35	A mechanistic study on photocatalysis by thiapyrylium salts. Photodegradation of dimethoate, alachlor and pyrimethanil under simulated sunlight. <i>Applied Catalysis B: Environmental</i> , 2012 , 123-124, 208-213	21.8	17
34	Involvement of triplet excited states in the electron transfer photodegradation of cinnamic acids using pyrylium and thiapyrylium salts as photocatalysts. <i>Photochemical and Photobiological Sciences</i> , 2007 , 6, 848-52	4.2	17
33	Oxidative degradation of 2,4-xylidine by photosensitization with 2,4,6-triphenylpyrylium: homogeneous and heterogeneous catalysis. <i>Chemosphere</i> , 2004 , 57, 1123-30	8.4	17
32	Treatment of Aqueous Solutions Containing Four Commercial Pesticides by Means of TiO ₂ Solar Photocatalysis. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2008 , 130,	2.3	14
31	New Route for Valorization of Oil Mill Wastes: Isolation of Humic-Like Substances to be Employed in Solar-Driven Processes for Pollutants Removal. <i>ACS Omega</i> , 2018 , 3, 13073-13080	3.9	13
30	Comparison of different TiO ₂ samples as photocatalyst for the degradation of a mixture of four commercial pesticides. <i>Journal of Chemical Technology and Biotechnology</i> , 2014 , 89, 1259-1264	3.5	12
29	Time-resolved kinetic assessment of the role of singlet and triplet excited states in the photocatalytic treatment of pollutants at different concentrations. <i>Applied Catalysis B: Environmental</i> , 2017 , 203, 381-388	21.8	12
28	Confirming <i>Pseudomonas putida</i> as a reliable bioassay for demonstrating biocompatibility enhancement by solar photo-oxidative processes of a biorecalcitrant effluent. <i>Journal of Hazardous Materials</i> , 2009 , 162, 1223-7	12.8	12
27	Degradation of rosolic acid by advanced oxidation processes: ozonation vs. solar photocatalysis. <i>Desalination</i> , 2007 , 212, 114-122	10.3	12
26	Direct detection of the triphenylpyrylium-derived short-lived intermediates in the photocatalyzed degradation of acetaminophen, acetamiprid, caffeine and carbamazepine. <i>Journal of Hazardous Materials</i> , 2018 , 356, 91-97	12.8	11
25	Activated sludge respirometry to assess solar detoxification of a metal finishing effluent. <i>Journal of Hazardous Materials</i> , 2008 , 153, 905-10	12.8	11
24	2,4,6-Triphenylthiapyrylium cation as homogeneous solar photocatalyst. <i>Catalysis Today</i> , 2007 , 129, 37-43	4.3	10
23	Exploring the applicability of solar driven photocatalytic processes to control infestation by zebra mussel. <i>Chemical Engineering Journal</i> , 2011 , 171, 490-494	14.7	9
22	A new methodology to assess the performance of AOPs in complex samples: Application to the degradation of phenolic compounds by O ₃ and O ₃ /UV-A-Vis. <i>Chemosphere</i> , 2019 , 222, 114-123	8.4	9
21	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. <i>Catalysis Today</i> , 2019 , 328, 252-258	5.3	9

20	Effect of Methylisothiazolinone on Biological Treatment: Efficiency of SBRs and Bioindicative Studies. <i>Environmental Engineering Science</i> , 2015 , 32, 479-485	2	8
19	Treatment and reuse of textile wastewaters by mild solar photo-Fenton in the presence of humic-like substances. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 12664-12672	5.1	8
18	Detoxification of Aqueous Solutions Containing the Commercial Pesticide Metasystox by TiO ₂ -Mediated Solar Photocatalysis. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2007 , 129, 74-79	2.3	8
17	Hydroxyl radical as an unlikely key intermediate in the photodegradation of emerging pollutants. <i>Photochemistry and Photobiology</i> , 2014 , 90, 1467-9	3.6	7
16	Effect of organic species on the solar detoxification of water polluted with pesticides. <i>Journal of Hazardous Materials</i> , 2011 , 188, 181-7	12.8	7
15	C ₄ H ₇ O ₂ ⁺ ions. Thermochemistry in sulfuric acid solution and chemical-ionization mass spectra relationships. <i>Journal of Organic Chemistry</i> , 1987 , 52, 4790-4792	4.2	7
14	Thermolysis of unsaturated dicarboxylic acids in sulfuric acid and oleum. A comparison with the CIMS fragmentation patterns. <i>Journal of Organic Chemistry</i> , 1988 , 53, 5480-5484	4.2	7
13	Pentachlorophenol Removal from Water by Soybean Peroxidase and Iron(II) Salts Concerted Action. <i>Water, Air, and Soil Pollution</i> , 2019 , 230, 1	2.6	6
12	Modified photobehavior of carboxylic acid derivatives induced by protonation. <i>Tetrahedron</i> , 1987 , 43, 905-910	2.4	5
11	Effect of Salinity on UVA-Vis Light Driven Photo-Fenton Process at Acidic and Circumneutral pH. <i>Water (Switzerland)</i> , 2021 , 13, 1315	3	5
10	Unveiling the Dependence between Hydroxyl Radical Generation and Performance of Fenton Systems with Complexed Iron. <i>ACS Omega</i> , 2019 , 4, 21698-21703	3.9	5
9	Exploring reuse of industrial wastewater from exhaust dyebaths by solar-based photo-Fenton treatment. <i>Textile Reseach Journal</i> , 2013 , 83, 1327-1334	1.7	3
8	Abatement of Industrial Sulfonic Pollutants by Ozone and UV Radiation. <i>Environmental Engineering Science</i> , 2004 , 21, 485-492	2	3
7	Removal of Pharmaceutics by Solar-Driven Processes. <i>Springer Briefs in Molecular Science</i> , 2012 , 77-91	0.6	2
6	Humic-Like Substances as Auxiliaries to Enhance Advanced Oxidation Processes.. <i>ACS Omega</i> , 2022 , 7, 3151-3157	3.9	2
5	Einlagerung von TPP ⁺ -Ionen in Y-Zeolithe durch formalen Ionenaustausch in wässrigem Medium. <i>Angewandte Chemie</i> , 2003 , 115, 1691-1693	3.6	1
4	Assessment of a Novel Photocatalytic TiO ₂ -Zirconia Ultrafiltration Membrane and Combination with Solar Photo-Fenton Tertiary Treatment of Urban Wastewater. <i>Catalysts</i> , 2022 , 12, 552	4	1
3	Humic like substances extracted from oil mill wastes in photo-Fenton processes: Characterization, performance and toxicity assesment. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 106862	6.8	0

- 2 SBO in Water Detoxification: Photo-Fenton Processes at Mild Conditions. *Springer Briefs in Molecular Science*, **2015**, 29-40 0.6
- 1 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