

# Moiss Canle

## List of Publications by Citations

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108  
papers

2,998  
citations

25  
h-index

52  
g-index

115  
ext. papers

3,285  
ext. citations

5.1  
avg, IF

5.11  
L-index

#	Paper	IF	Citations
108	Reaction pathways and mechanisms of photodegradation of pesticides. <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>2002</b> , 67, 71-108	6.7	455
107	Solid-phase extraction of organic compounds: A critical review (Part I). <i>TrAC - Trends in Analytical Chemistry</i> , <b>2016</b> , 80, 641-654	14.6	249
106	Kinetics and mechanism of aqueous degradation of carbamazepine by heterogeneous photocatalysis using nanocrystalline TiO <sub>2</sub> , ZnO and multi-walled carbon nanotubes/nanase composites. <i>Applied Catalysis B: Environmental</i> , <b>2011</b> , 102, 563-571	21.8	189
105	Aqueous degradation of diclofenac by heterogeneous photocatalysis using nanostructured materials. <i>Applied Catalysis B: Environmental</i> , <b>2011</b> , 107, 110-118	21.8	180
104	Solid-phase extraction of organic compounds: A critical review. part ii. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2016</b> , 80, 655-667	14.6	160
103	Aqueous chemistry of N-halo-compounds. <i>Chemical Society Reviews</i> , <b>1998</b> , 27, 453	58.5	113
102	On the mechanism of TiO <sub>2</sub> -photocatalyzed degradation of aniline derivatives. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2005</b> , 175, 192-200	4.7	105
101	Oxidation of aliphatic amines by aqueous chlorine. <i>Tetrahedron</i> , <b>1998</b> , 54, 521-530	2.4	98
100	First Steps in the Oxidation of Sulfur-Containing Amino Acids by Hypohalogenation: Very Fast Generation of Intermediate Sulfenyl Halides and Halosulfonium Cations. <i>Tetrahedron</i> , <b>2000</b> , 56, 1103-1109	2.4	97
99	Mechanisms of direct and TiO <sub>2</sub> -photocatalysed UV degradation of phenylurea herbicides. <i>ChemPhysChem</i> , <b>2005</b> , 6, 2064-74	3.2	65
98	Amino acids chlorination in aqueous media. <i>Tetrahedron</i> , <b>1993</b> , 49, 275-284	2.4	64
97	Mechanism of degradation of ketoprofen by heterogeneous photocatalysis in aqueous solution. <i>Applied Catalysis B: Environmental</i> , <b>2013</b> , 142-143, 633-646	21.8	61
96	Environmental Applications of Excitation-Emission Spectrofluorimetry: An In-Depth Review I. <i>Applied Spectroscopy Reviews</i> , <b>2013</b> , 48, 1-49	4.5	54
95	Environmental Applications of Excitation-Emission Spectrofluorimetry: An In-Depth Review II. <i>Applied Spectroscopy Reviews</i> , <b>2013</b> , 48, 77-141	4.5	53
94	Seasonal Variations of Nutrients, Seston and Phytoplankton, and Upwelling Intensity off La Coruña (NW Spain). <i>Estuarine, Coastal and Shelf Science</i> , <b>1997</b> , 44, 767-778	2.9	53
93	Degradation of aqueous ketoprofen by heterogeneous photocatalysis using Bi <sub>2</sub> S <sub>3</sub> /TiO <sub>2</sub> /Montmorillonite nanocomposites under simulated solar irradiation. <i>Applied Clay Science</i> , <b>2018</b> , 166, 27-37	5.2	50
92	Photochemical and photocatalytic degradation of trans-resveratrol. <i>Photochemical and Photobiological Sciences</i> , <b>2013</b> , 12, 638-44	4.2	40

91	Photocatalytic activity of mont-La (6%)-Cu <sub>0.6</sub> Cd <sub>0.4</sub> S catalyst for phenol degradation under near UV visible light irradiation. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 211, 114-125	21.8	37
90	Photocatalyzed degradation/abatement of endocrine disruptors. <i>Current Opinion in Green and Sustainable Chemistry</i> , <b>2017</b> , 6, 101-138	7.9	28
89	Kinetic and mechanistic aspects of the direct photodegradation of atrazine, atraton, ametryn and 2-hydroxyatrazine by 254 nm light in aqueous solution. <i>Journal of Physical Organic Chemistry</i> , <b>2003</b> , 16, 498-503	2.1	28
88	On the kinetics and energetics of one-electron oxidation of 1,3,5-triazines. <i>Chemical Communications</i> , <b>2003</b> , 112-3	5.8	28
87	Concerted Grob Fragmentation in N-Halo- $\alpha$ -amino Acid Decomposition. <i>Journal of Organic Chemistry</i> , <b>1994</b> , 59, 4659-4664	4.2	27
86	Myeloperoxidase-catalyzed taurine chlorination: initial versus equilibrium rate. <i>Archives of Biochemistry and Biophysics</i> , <b>2007</b> , 466, 221-33	4.1	25
85	On the low-lying excited states of sym-triazine-based herbicides. <i>ChemPhysChem</i> , <b>2005</b> , 6, 306-14	3.2	25
84	Photo- and Radiation-Chemical Generation and Thermodynamic Properties of the Aminium and Aminyl Radicals Derived from N-Phenylglycine and (N-Chloro,N-phenyl)glycine in Aqueous Solution: Evidence for a New Photoionization Mechanism for Aromatic Amines. <i>Chemistry - A European Journal</i> , <b>1999</b> , 5, 1192-1201	4.8	25
83	First stages of photodegradation of the urea herbicides Fenuron, Monuron and Diuron. <i>Journal of Molecular Structure</i> , <b>2001</b> , 565-566, 133-139	3.4	24
82	A B3LYP/6-31G** study on the chlorination of ammonia by hypochlorous acid. <i>Chemical Physics Letters</i> , <b>2001</b> , 342, 405-410	2.5	24
81	An operational approach to N-Cl- $\alpha$ -amino acids decomposition. <i>International Journal of Chemical Kinetics</i> , <b>1993</b> , 25, 331-339	1.4	23
80	Myeloperoxidase-catalyzed chlorination: the quest for the active species. <i>Journal of Inorganic Biochemistry</i> , <b>2008</b> , 102, 1300-11	4.2	21
79	N Reactivity vs. O reactivity in aqueous chlorination. <i>International Journal of Chemical Kinetics</i> , <b>1994</b> , 26, 1135-1141	1.4	20
78	Photo- and radiation-chemical formation and electrophilic and electron transfer reactivities of enolether radical cations in aqueous solution. <i>Chemistry - A European Journal</i> , <b>2001</b> , 7, 4640-50	4.8	19
77	Nonsymmetrical 3,4-dithienylmaleimides by cross-coupling reactions with indium organometallics: synthesis and photochemical studies. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 14524-30	4.8	18
76	Diclofenac degradation using mont-La (6%)-Cu <sub>0.6</sub> Cd <sub>0.4</sub> S as photocatalyst under NUV $\alpha$ is irradiation. Operational parameters, kinetics and mechanism. <i>Journal of Environmental Chemical Engineering</i> , <b>2017</b> , 5, 5636-5644	6.8	18
75	Reactivity of the Thermally Stable Intermediates of the Reduction of SO <sub>2</sub> on Carbons and Mechanisms of Insertion of Organic Moieties in the Carbon Matrix. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 581-589	3.8	18
74	The use of XPS spectra for the study of reaction mechanisms: the atom inventory method. <i>Journal of Physical Organic Chemistry</i> , <b>2008</b> , 21, 1035-1042	2.1	18

73	Heterogeneous photo-Fenton process for degradation of azo dye: Methyl orange using a local cheap material as a photocatalyst under solar light irradiation. <i>Optik</i> , <b>2017</b> , 137, 6-16	2.5	17
72	Selective insertion of sulfur dioxide reduction intermediates on graphene oxide. <i>Langmuir</i> , <b>2014</b> , 30, 4301-9	4	17
71	A DFT study on the microscopic ionization of cysteine in water. <i>Chemical Physics Letters</i> , <b>2006</b> , 417, 28-33	3.5	17
70	Developments in the mechanism of photodegradation of triazine-based pesticides. <i>Journal of Physical Organic Chemistry</i> , <b>2005</b> , 18, 148-155	2.1	17
69	Concerted base-promoted elimination in the decomposition of N-halo amino acids. <i>Journal of Physical Organic Chemistry</i> , <b>1996</b> , 9, 552-560	2.1	17
68	Titanium Dioxide Nanoparticle Photocatalysed Degradation of Ibuprofen and Naproxen in Water: Competing Hydroxyl Radical Attack and Oxidative Decarboxylation by Semiconductor Holes. <i>ChemistrySelect</i> , <b>2018</b> , 3, 10915-10924	1.8	16
67	Preparations, X-ray crystal structure determinations, and base strength measurements of substituted tritylamines. <i>Perkin Transactions II RSC</i> , <b>2000</b> , 85-92		15
66	Photochemistry for pollution abatement. <i>Pure and Applied Chemistry</i> , <b>2013</b> , 85, 1437-1449	2.1	14
65	Unimolecular Decomposition of the Anionic Form of N-Chloro-glycine. A Theoretical Study. <i>The Journal of Physical Chemistry</i> , <b>1996</b> , 100, 3561-3568		14
64	Decomposition of N-chloro-amino acids in alkaline medium. <i>Journal of the Chemical Society Perkin Transactions II</i> , <b>1993</b> , 181-185		14
63	A theoretical analysis of the acid-base equilibria of hydroxylamine in aqueous solution. <i>Chemical Physics Letters</i> , <b>2010</b> , 490, 159-164	2.5	13
62	Extended planarity and delocalization in triazine-based derivatives. <i>Chemical Physics Letters</i> , <b>2006</b> , 426, 290-295	2.5	13
61	Nitrenium ions in N-chloro-amino acids decomposition?. <i>International Journal of Chemical Kinetics</i> , <b>1993</b> , 25, 1-8	1.4	13
60	Effect of the calcination temperature on the photocatalytic efficiency of acidic sol-gel synthesized TiO nanoparticles in the degradation of alprazolam. <i>Photochemical and Photobiological Sciences</i> , <b>2017</b> , 16, 935-945	4.2	12
59	Reactive Site Model of the Reduction of SO <sub>2</sub> on Graphite. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 14649-14657	3.8	12
58	(Re)Greening photochemistry: using light for degrading persistent organic pollutants. <i>Reviews in Environmental Science and Biotechnology</i> , <b>2012</b> , 11, 213-221	13.9	12
57	Combined theoretical and experimental study of the photophysics of asulam. <i>Journal of Physical Chemistry A</i> , <b>2013</b> , 117, 2125-37	2.8	11
56	Intracellular oxidation of dipeptides. Very fast halogenation of the amino-terminal residue. <i>Perkin Transactions II RSC</i> , <b>2001</b> , 608-612		11

55	Improved Photocatalyzed Degradation of Phenol, as a Model Pollutant, over Metal-Impregnated Nanosized TiO. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	10
54	Acidities of closo-1-COOH-1,7-C2B10H11 and amino acids based on icosahedral carbaboranes. <i>Journal of Physical Chemistry A</i> , <b>2014</b> , 118, 2788-93	2.8	10
53	Degradation of 2-mercaptobenzothiazole in microbial electrolysis cells: Intermediates, toxicity, and microbial communities. <i>Science of the Total Environment</i> , <b>2020</b> , 733, 139155	10.2	9
52	Acid-catalysed hydrolysis of methoxy-substituted trityl trifluoroethyl ethers: a kinetic and computational investigation of leaving group effects. <i>Journal of Physical Organic Chemistry</i> , <b>2008</b> , 21, 614-621	2.1	9
51	Substituent effects upon rates of deamination and base strengths of substituted N-tritylamines. <i>Perkin Transactions II RSC</i> , <b>2001</b> , 1748-1752		9
50	Theoretical study of substituent effects in the unimolecular decomposition of N-chloro- $\alpha$ -amino acid anions. Analysis of transition structure and molecular reaction mechanism. <i>Journal of Physical Organic Chemistry</i> , <b>1996</b> , 9, 371-380	2.1	9
49	Fe(III)-citrate enhanced sunlight-driven photocatalysis of aqueous Carbamazepine. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2019</b> , 378, 147-155	4.7	8
48	Simulated sunlight photodegradation of 2-mercaptobenzothiazole by heterogeneous photo-Fenton using a natural clay powder. <i>Journal of Environmental Chemical Engineering</i> , <b>2018</b> , 6, 1783-1793	6.8	8
47	Evidence for an intramolecular elimination mechanism in the aqueous decomposition of (N-Cl)-alcoholamines. <i>Tetrahedron</i> , <b>1997</b> , 53, 2565-2572	2.4	8
46	N-Tritylhydroxylamines: preparations, structures, base strengths, and reactions with nitrous acid and perchloric acid. <i>Perkin Transactions II RSC</i> , <b>2001</b> , 1742-1747		8
45	Acid-base equilibria and decomposition of secondary (N-Cl)- $\alpha$ -amino acids.. <i>Tetrahedron</i> , <b>1994</b> , 50, 10509-10520	10.5	8
44	Face-Fusion of Icosahedral Boron Hydride Increases Affinity to $\beta$ -Cyclodextrin: closo,closo-[B <sub>10</sub> H <sub>12</sub> ] as an Anion with Very Low Free Energy of Dehydration. <i>ChemPhysChem</i> , <b>2020</b> , 21, 971-976	3.2	7
43	Rate and equilibrium constants for oxazolidine and thiazolidine ring-opening reactions. <i>Pure and Applied Chemistry</i> , <b>1996</b> , 68, 813-818	2.1	7
42	Evidence of non-photo-Fenton degradation of ibuprofen upon UVA irradiation in the presence of Fe(III)/malonate. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2019</b> , 382, 111976	4.7	6
41	Isotope Effects in the Solvolysis of Sterically Hindered Arenesulfonyl Chlorides. <i>International Journal of Chemical Kinetics</i> , <b>2015</b> , 47, 744-750	1.4	6
40	Photolysis of phenylalanine in the presence of oxidized carbon nanotubes. <i>Langmuir</i> , <b>2015</b> , 31, 164-70	4	6
39	Energy landscapes in diexo and exo/endo isomers derived from Li <sub>2</sub> B <sub>12</sub> H <sub>12</sub> . <i>Chemical Physics Letters</i> , <b>2010</b> , 497, 172-177	2.5	6
38	Base Strengths of Substituted Tritylamines, N-Alkylanilines, and Tribenzylamine in Aqueous Solution and the Gas Phase: Steric Effects Upon Solvation and Resonance Interactions. <i>European Journal of Organic Chemistry</i> , <b>2004</b> , 2004, 5031-5039	3.2	6

37	A joint theoretical and kinetic investigation on the fragmentation of (N-halo)-2-amino cycloalkanecarboxylates. <i>Chemical Physics</i> , <b>2002</b> , 280, 1-14	2.3	6
36	General base catalysis in the decomposition of N-Cl-Valine in aqueous solution. <i>International Journal of Chemical Kinetics</i> , <b>1994</b> , 26, 1041-1053	1.4	6
35	Solvent network at the transition state in the solvolysis of hindered sulfonyl compounds. <i>Journal of Physical Organic Chemistry</i> , <b>2017</b> , 30, e3588	2.1	5
34	Photolytic insertion of albumin on activated carbon modified with ozone. <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>2017</b> , 174, 261-268	6.7	5
33	A theoretical study on the mechanism of the base-promoted decomposition of N-chloro,N-methylethanolamine. <i>Organic and Biomolecular Chemistry</i> , <b>2009</b> , 7, 1807-14	3.9	5
32	Evidence for the intermediacy of N-(2-imino, 1-oxo-propyl)-glycine in the base-catalyzed decomposition of N-halo-dipeptides. <i>Tetrahedron</i> , <b>1997</b> , 53, 12615-12620	2.4	5
31	Alkoxide-promoted decomposition of N-halo- $\alpha$ -amino acids in aqueous medium.. <i>Tetrahedron</i> , <b>1994</b> , 50, 2265-2276	2.4	5
30	Dissolved and particulate organic nitrogen in shelf waters of northern Spain during spring. <i>Marine Ecology - Progress Series</i> , <b>2001</b> , 214, 43-54	2.6	5
29	Density functional study of the Hoffmann elimination of (N-Cl),N-methylethanolamine in gas phase and in aqueous solution. <i>Chemical Physics Letters</i> , <b>2006</b> , 429, 425-429	2.5	4
28	Understanding the mechanism of base-assisted decomposition of (N-halo),N-alkylalcoholamines. <i>Organic and Biomolecular Chemistry</i> , <b>2003</b> , 1, 4323-8	3.9	4
27	Microalgal bioassays as a test of pesticide photodegradation efficiency in water. <i>Bulletin of Environmental Contamination and Toxicology</i> , <b>2001</b> , 67, 233-8	2.7	4
26	Solvent isotope effects in the oxidation of dipeptides by aqueous chlorine. <i>Canadian Journal of Chemistry</i> , <b>1999</b> , 77, 997-1004	0.9	4
25	Interconversion and selective reactivity of sulfur dioxide reduction intermediates inserted on graphene oxide. <i>Journal of Physical Organic Chemistry</i> , <b>2016</b> , 29, 773-780	2.1	4
24	Photo-mechanism of phenolic pollutants in natural water: Effect of salts. <i>Separation and Purification Technology</i> , <b>2020</b> , 116868	8.3	3
23	Predicted Gas-Phase and Liquid-Phase Acidities of Carborane Carboxylic and Dicarboxylic Acids. <i>ChemistrySelect</i> , <b>2018</b> , 3, 4344-4353	1.8	3
22	Unravelling the mechanism of intracellular oxidation of thiols by (N-Cl)-Taurine. <i>Journal of Physical Organic Chemistry</i> , <b>2013</b> , 26, 1098-1104	2.1	3
21	Enhanced Photocatalytic Degradation of the Imidazolinone Herbicide Imazapyr upon UV/Vis Irradiation in the Presence of CaMnO-TiO Hetero-Nanostructures: Degradation Pathways and Reaction Intermediates. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	2
20	Acid-catalysed hydrolysis of trityl derivatives in strongly acidic aqueous media. <i>Journal of Physical Organic Chemistry</i> , <b>2013</b> , 26, 1016-1022	2.1	2

19	Diethyl 1-(4-fluorophenyl)-3-(2-furyl)-5-oxopyrrolidine-2,2-dicarboxylate and diethyl 1-(3,4-dichlorophenyl)-3-(2-furyl)-5-oxopyrrolidine-2,2-dicarboxylate. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , <b>2004</b> , 60, o163-5		2
18	Intracellular oxidation of dipeptides. Base-promoted elimination from N-halodipeptides to 2-[N-alkyl-N-(2-N-alkylimino-2-alkyl-ethanoyl)amino]-2,2-dialkylethanoic acids. <i>Journal of Organic Chemistry</i> , <b>2001</b> , 66, 5692-700	4.2	2
17	Removal of paracetamol in the presence of iron(III) complexes of glutamic and lactic acid in aqueous solution under NUV irradiation. <i>Separation and Purification Technology</i> , <b>2021</b> , 261, 118195	8.3	2
16	Propanolysis of arenesulfonyl chlorides: Nucleophilic substitution at sulfonyl sulfur. <i>Journal of Physical Organic Chemistry</i> , <b>2018</b> , 31, e3753	2.1	2
15	Chemical and physical characterization of a natural clay and its use as photocatalyst for the degradation of the methabenzthiazuron herbicide in water. <i>Optik</i> , <b>2020</b> , 219, 165024	2.5	1
14	1-(3-Chloro-4-fluoro-phen-yl)-5-(2-diazo-acet-yl)-4-phenyl-pyrrolidin-2-one. <i>Acta Crystallographica Section E: Structure Reports Online</i> , <b>2010</b> , 66, o2103		1
13	14-n-Butyldibenz[a,h]acridine. <i>Acta Crystallographica Section E: Structure Reports Online</i> , <b>2003</b> , 59, o514-o516		1
12	Diethyl 1-(4-methyl-phen-yl)-3-phenyl-5-oxopyrrolidine-2,2-dicarboxyl-ate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , <b>2010</b> , 66, o2104-5		1
11	Photo-immobilization of proteins on carbons. <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>2020</b> , 202, 111675	6.7	1
10	Mechanisms of Solid-Gas Reactions: Reduction of Air Pollutants on Carbons. <i>Topics in Catalysis</i> , <b>2020</b> , 63, 817-832	2.3	1
9	Effect of mass of pristine carbon nanotubes on the photolysis of phenylalanine. <i>Journal of Physical Organic Chemistry</i> , <b>2019</b> , 32, e3849	2.1	1
8	Intramolecular Amino-thiolysis Cyclization of Graphene Oxide Modified with Sulfur Dioxide: XPS and Solid-State NMR Studies. <i>Journal of Physical Chemistry C</i> , <b>2022</b> , 126, 1729-1741	3.8	0
7	An efficient green photo-Fenton system for the degradation of organic pollutants. Kinetics of propranolol removal from different water matrices. <i>Journal of Water Process Engineering</i> , <b>2022</b> , 46, 102514	6.7	0
6	First evidence of a photochemical process including an iron-aspartate complex and its use for paracetamol elimination from aqueous solution. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2021</b> , 409, 113132	4.7	0
5	Photocatalytic Degradation of Alachlor over Titania-Reduced Graphene Oxide Nanocomposite: Intrinsic Kinetic Model and Reaction Pathways. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2021</b> , 60, 18907-18917	3.9	0
4	El Elogio del horizonte de Chillida, un encuentro entre ciencia y arte. <i>Hormigon Y Acero</i> , <b>2018</b> , 69, 77-82		1
3	2-(2-Furylmethyl)-1-methyl-3-oxocyclohexanecarboxylic acid. <i>Acta Crystallographica Section E: Structure Reports Online</i> , <b>2003</b> , 59, o1050-o1052		
2	Differential Features of short-lived intermediates: Structure, properties and reactivity. <i>Advances in Physical Organic Chemistry</i> , <b>2020</b> , 99-118	0.3	

- 1 Effect of ionizing radiation on human myeloperoxidase: Reaction with hydrated electrons. *Journal of Photochemistry and Photobiology B: Biology*, **2021**, 226, 112369

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