

MoisÃ©s Canle

List of Publications by Year in descending order

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111
papers

3,688
citations

218381

26
h-index

138251

58
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116
all docs

116
docs citations

116
times ranked

4428
citing authors

#	ARTICLE	IF	CITATIONS
1	Reaction pathways and mechanisms of photodegradation of pesticides. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2002, 67, 71-108.	1.7	529
2	Solid-phase extraction of organic compounds: A critical review (Part I). <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 80, 641-654.	5.8	345
3	Solid-phase extraction of organic compounds: A critical review. part ii. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 80, 655-667.	5.8	231
4	Kinetics and mechanism of aqueous degradation of carbamazepine by heterogeneous photocatalysis using nanocrystalline TiO ₂ , ZnO and multi-walled carbon nanotubes anatase composites. <i>Applied Catalysis B: Environmental</i> , 2011, 102, 563-571.	10.8	217
5	Aqueous degradation of diclofenac by heterogeneous photocatalysis using nanostructured materials. <i>Applied Catalysis B: Environmental</i> , 2011, 107, 110-118.	10.8	207
6	Aqueous chemistry of N-halo-compounds. <i>Chemical Society Reviews</i> , 1998, 27, 453.	18.7	122
7	On the mechanism of TiO ₂ -photocatalyzed degradation of aniline derivatives. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2005, 175, 192-200.	2.0	122
8	Oxidation of aliphatic amines by aqueous chlorine. <i>Tetrahedron</i> , 1998, 54, 521-530.	1.0	115
9	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> , 2000, 56, 1103-1109.	1.0	109
10	Mechanisms of Direct and TiO ₂ -Photocatalysed UV Degradation of Phenylurea Herbicides. <i>ChemPhysChem</i> , 2005, 6, 2064-2074.	1.0	76
11	Mechanism of degradation of ketoprofen by heterogeneous photocatalysis in aqueous solution. <i>Applied Catalysis B: Environmental</i> , 2013, 142-143, 633-646.	10.8	76
12	Seasonal Variations of Nutrients, Seston and Phytoplankton, and Upwelling Intensity off La Coruña (NW Spain). <i>Estuarine, Coastal and Shelf Science</i> , 1997, 44, 767-778.	0.9	73
13	Environmental Applications of Excitation-Emission Spectrofluorimetry: An In-Depth Review I. <i>Applied Spectroscopy Reviews</i> , 2013, 48, 1-49.	3.4	73
14	Î±-amino acids chlorination in aqueous media. <i>Tetrahedron</i> , 1993, 49, 275-284.	1.0	70
15	Degradation of aqueous ketoprofen by heterogeneous photocatalysis using Bi ₂ S ₃ /TiO ₂ Montmorillonite nanocomposites under simulated solar irradiation. <i>Applied Clay Science</i> , 2018, 166, 27-37.	2.6	64
16	Environmental Applications of Excitation-Emission Spectrofluorimetry: An In-Depth Review II. <i>Applied Spectroscopy Reviews</i> , 2013, 48, 77-141.	3.4	61
17	Photochemical and photocatalytic degradation of trans-resveratrol. <i>Photochemical and Photobiological Sciences</i> , 2013, 12, 638-644.	1.6	59
18	Photocatalytic activity of mont-LA (6%)-Cu _{0.6} Cd _{0.4} S catalyst for phenol degradation under near UV visible light irradiation. <i>Applied Catalysis B: Environmental</i> , 2017, 211, 114-125.	10.8	47

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19	Photocatalyzed degradation/abatement of endocrine disruptors. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2017, 6, 101-138.	3.2	36
20	Concerted Grob Fragmentation in N-Halo- α -amino Acid Decomposition. <i>Journal of Organic Chemistry</i> , 1994, 59, 4659-4664.	1.7	33
21	On the Low-Lying Excited States of sym-Triazine-Based Herbicides. <i>ChemPhysChem</i> , 2005, 6, 306-314.	1.0	31
22	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> , 2003, 16, 498-503.	0.9	30
23	On the kinetics and energetics of one-electron oxidation of 1,3,5-triazines. <i>Chemical Communications</i> , 2003, , 112-113.	2.2	29
24	Myeloperoxidase-catalyzed taurine chlorination: Initial versus equilibrium rate. <i>Archives of Biochemistry and Biophysics</i> , 2007, 466, 221-233.	1.4	29
25	First stages of photodegradation of the urea herbicides Fenuron, Monuron and Diuron. <i>Journal of Molecular Structure</i> , 2001, 565-566, 133-139.	1.8	27
26	Myeloperoxidase-catalyzed chlorination: The quest for the active species. <i>Journal of Inorganic Biochemistry</i> , 2008, 102, 1300-1311.	1.5	27
27	Titanium Dioxide Nanoparticle Photocatalysed Degradation of Ibuprofen and Naproxen in Water: Competing Hydroxyl Radical Attack and Oxidative Decarboxylation by Semiconductor Holes. <i>ChemistrySelect</i> , 2018, 3, 10915-10924.	0.7	27
28	An operational approach to N-Cl- α -amino acids decomposition. <i>International Journal of Chemical Kinetics</i> , 1993, 25, 331-339.	1.0	26
29	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> , 1999, 5, 1192-1201.	1.7	25
30	Diclofenac degradation using mont-La (6%)-Cu _{0.6} Cd _{0.4} S as photocatalyst under NUV-Vis irradiation. Operational parameters, kinetics and mechanism. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 5636-5644.	3.3	25
31	A B3LYP/6-31G** study on the chlorination of ammonia by hypochlorous acid. <i>Chemical Physics Letters</i> , 2001, 342, 405-410.	1.2	24
32	Improved Photocatalyzed Degradation of Phenol, as a Model Pollutant, over Metal-Impregnated Nanosized TiO ₂ . <i>Nanomaterials</i> , 2020, 10, 996.	1.9	22
33	N Reactivity vs. O reactivity in aqueous chlorination. <i>International Journal of Chemical Kinetics</i> , 1994, 26, 1135-1141.	1.0	21
34	Concerted base-promoted elimination in the decomposition of N-halo amino acids. <i>Journal of Physical Organic Chemistry</i> , 1996, 9, 552-560.	0.9	21
35	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> , 2017, 137, 6-16.	1.4	21
36	Photo- and Radiation-Chemical Formation and Electrophilic and Electron Transfer Reactivities of Enol ether Radical Cations in Aqueous Solution. <i>Chemistry - A European Journal</i> , 2001, 7, 4640-4650.	1.7	20

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37	Nonsymmetrical 3,4-Dithienylmaleimides by Cross-Coupling Reactions with Indium Organometallics: Synthesis and Photochemical Studies. <i>Chemistry - A European Journal</i> , 2014, 20, 14524-14530.	1.7	20
38	Developments in the mechanism of photodegradation of triazine-based pesticides. <i>Journal of Physical Organic Chemistry</i> , 2005, 18, 148-155.	0.9	19
39	A DFT study on the microscopic ionization of cysteine in water. <i>Chemical Physics Letters</i> , 2006, 417, 28-33.	1.2	19
40	The use of XPS spectra for the study of reaction mechanisms: the atom inventory method. <i>Journal of Physical Organic Chemistry</i> , 2008, 21, 1035-1042.	0.9	19
41	Reactivity of the Thermally Stable Intermediates of the Reduction of SO ₂ on Carbons and Mechanisms of Insertion of Organic Moieties in the Carbon Matrix. <i>Journal of Physical Chemistry C</i> , 2008, 112, 581-589.	1.5	18
42	Selective Insertion of Sulfur Dioxide Reduction Intermediates on Graphene Oxide. <i>Langmuir</i> , 2014, 30, 4301-4309.	1.6	18
43	Effect of the calcination temperature on the photocatalytic efficiency of acidic sol-gel synthesized TiO ₂ nanoparticles in the degradation of alprazolam. <i>Photochemical and Photobiological Sciences</i> , 2017, 16, 935-945.	1.6	18
44	Preparations, X-ray crystal structure determinations, and base strength measurements of substituted tritylamines. <i>Perkin Transactions II RSC</i> , 2000, , 85-92.	1.1	17
45	A theoretical analysis of the acid-base equilibria of hydroxylamine in aqueous solution. <i>Chemical Physics Letters</i> , 2010, 490, 159-164.	1.2	17
46	Photochemistry for pollution abatement. <i>Pure and Applied Chemistry</i> , 2013, 85, 1437-1449.	0.9	17
47	Reactive Site Model of the Reduction of SO ₂ on Graphite. <i>Journal of Physical Chemistry C</i> , 2017, 121, 14649-14657.	1.5	17
48	Degradation of 2-mercaptobenzothiazole in microbial electrolysis cells: Intermediates, toxicity, and microbial communities. <i>Science of the Total Environment</i> , 2020, 733, 139155.	3.9	17
49	Nitrenium ions in N-chloro- α -amino acids decomposition?. <i>International Journal of Chemical Kinetics</i> , 1993, 25, 1-8.	1.0	16
50	Decomposition of N-chloro- α -amino acids in alkaline medium. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1993, , 181-185.	0.9	15
51	(Re)Greening photochemistry: using light for degrading persistent organic pollutants. <i>Reviews in Environmental Science and Biotechnology</i> , 2012, 11, 213-221.	3.9	15
52	Removal of emerging pollutants by a 3-step system: Hybrid digester, vertical flow constructed wetland and photodegradation post-treatments. <i>Science of the Total Environment</i> , 2022, 842, 156750.	3.9	15
53	Unimolecular Decomposition of the Anionic Form of N-Chloro- α -glycine. A Theoretical Study. <i>The Journal of Physical Chemistry</i> , 1996, 100, 3561-3568.	2.9	14
54	Intracellular oxidation of dipeptides. Very fast halogenation of the amino-terminal residue. <i>Perkin Transactions II RSC</i> , 2001, , 608-612.	1.1	14

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55	Extended planarity and π delocalization in triazine-based derivatives. <i>Chemical Physics Letters</i> , 2006, 426, 290-295.	1.2	14
56	Fusion of Icosahedral Boron Hydride Increases Affinity to β -Cyclodextrin: closo, closo $[B_{21}H_{18}]^{-}$ as an Anion with Very Low Free Energy of Dehydration. <i>ChemPhysChem</i> , 2020, 21, 971-976.	1.0	14
57	Simulated sunlight photodegradation of 2-mercaptobenzothiazole by heterogeneous photo-Fenton using a natural clay powder. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 1783-1793.	3.3	12
58	Fe(III)-citrate enhanced sunlight-driven photocatalysis of aqueous Carbamazepine. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 378, 147-155.	2.0	12
59	Rate and equilibrium constants for oxazolidine and thiazolidine ring-opening reactions. <i>Pure and Applied Chemistry</i> , 1996, 68, 813-818.	0.9	11
60	Combined Theoretical and Experimental Study of the Photophysics of Asulam. <i>Journal of Physical Chemistry A</i> , 2013, 117, 2125-2137.	1.1	11
61	Acidities of closo-1-COOH-1,7-C ₂ B ₁₀ H ₁₁ and Amino Acids Based on Icosahedral Carbaboranes. <i>Journal of Physical Chemistry A</i> , 2014, 118, 2788-2793.	1.1	11
62	Substituent effects upon rates of deamination and base strengths of substituted N-tritylamines. <i>Perkin Transactions II RSC</i> , 2001, , 1748-1752.	1.1	10
63	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> , 2008, 21, 614-621.	0.9	10
64	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> , 2022, 46, 102514.	2.6	10
65	Acid-base equilibria and decomposition of secondary (N-Cl)- α -amino acids.. <i>Tetrahedron</i> , 1994, 50, 10509-10520.	1.0	9
66	Theoretical study of substituent effects in the unimolecular decomposition of N-chloro- α -amino acid anions. Analysis of transition structure and molecular reaction mechanism. <i>Journal of Physical Organic Chemistry</i> , 1996, 9, 371-380.	0.9	9
67	N-Tritylhydroxylamines: preparations, structures, base strengths, and reactions with nitrous acid and perchloric acid. <i>Perkin Transactions II RSC</i> , 2001, , 1742-1747.	1.1	9
68	Dissolved and particulate organic nitrogen in shelf waters of northern Spain during spring. <i>Marine Ecology - Progress Series</i> , 2001, 214, 43-54.	0.9	9
69	Evidence for an intramolecular elimination mechanism in the aqueous decomposition of (N-Cl)-alcoholamines. <i>Tetrahedron</i> , 1997, 53, 2565-2572.	1.0	8
70	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> , 2019, 382, 111976.	2.0	8
71	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> , 2004, 2004, 5031-5039.	1.2	7
72	General base catalysis in the decomposition of N-Cl-Valine in aqueous solution. <i>International Journal of Chemical Kinetics</i> , 1994, 26, 1041-1053.	1.0	6

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73	Evidence for the intermediacy of N-(2-imino, 1-oxo-propyl)-glycine in the base-catalyzed decomposition of N-halo-dipeptides. <i>Tetrahedron</i> , 1997, 53, 12615-12620.	1.0	6
74	A joint theoretical and kinetic investigation on the fragmentation of (N-halo)-2-amino cycloalkanecarboxylates. <i>Chemical Physics</i> , 2002, 280, 1-14.	0.9	6
75	A theoretical study on the mechanism of the base-promoted decomposition of N-chloro,N-methylethanolamine. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 1807.	1.5	6
76	Energy landscapes in diexo and exo/endo isomers derived from Li ₂ B ₁₂ H ₁₂ . <i>Chemical Physics Letters</i> , 2010, 497, 172-177.	1.2	6
77	Isotope Effects in the Solvolysis of Sterically Hindered Arenesulfonyl Chlorides. <i>International Journal of Chemical Kinetics</i> , 2015, 47, 744-750.	1.0	6
78	Photolysis of Phenylalanine in the Presence of Oxidized Carbon Nanotubes. <i>Langmuir</i> , 2015, 31, 164-170.	1.6	6
79	Photolytic insertion of albumin on activated carbon modified with ozone. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017, 174, 261-268.	1.7	6
80	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> , 2020, 219, 165024.	1.4	6
81	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> , 2021, 261, 118195.	3.9	6
82	Alkoxide-promoted decomposition of N-halo- α -amino acids in aqueous medium.. <i>Tetrahedron</i> , 1994, 50, 2265-2276.	1.0	5
83	Solvent isotope effects in the oxidation of dipeptides by aqueous chlorine. <i>Canadian Journal of Chemistry</i> , 1999, 77, 997-1004.	0.6	5
84	Microalgal Bioassays as a Test of Pesticide Photodegradation Efficiency in Water. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2001, 67, 233-238.	1.3	5
85	Interconversion and selective reactivity of sulfur dioxide reduction intermediates inserted on graphene oxide. <i>Journal of Physical Organic Chemistry</i> , 2016, 29, 773-780.	0.9	5
86	Solvent network at the transition state in the solvolysis of hindered sulfonyl compounds. <i>Journal of Physical Organic Chemistry</i> , 2017, 30, e3588.	0.9	5
87	Understanding the mechanism of base-assisted decomposition of (N-halo),N-alkylalcoholamines. <i>Organic and Biomolecular Chemistry</i> , 2003, 1, 4323-4328.	1.5	4
88	Density functional study of the Hoffmann elimination of (N-Cl),N-methylethanolamine in gas phase and in aqueous solution. <i>Chemical Physics Letters</i> , 2006, 429, 425-429.	1.2	4
89	Enhanced Photocatalytic Degradation of the Imidazolinone Herbicide Imazapyr upon UV/Vis Irradiation in the Presence of CaMnOy-TiO ₂ Hetero-Nanostructures: Degradation Pathways and Reaction Intermediates. <i>Nanomaterials</i> , 2020, 10, 896.	1.9	4
90	Photo-mechanism of phenolic pollutants in natural water: Effect of salts. <i>Separation and Purification Technology</i> , 2020, , 116868.	3.9	4

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91	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> , 2021, 409, 113132.	2.0	4
92	Intracellular Oxidation of Dipeptides. Base-Promoted Elimination from N-Halodipeptides to 2-[N-Alkyl-N-(2-N-alkylimino-2-alkylethanoyl)amino]-2,2-dialkylethanoic Acids. <i>Journal of Organic Chemistry</i> , 2001, 66, 5692-5700.	1.7	3
93	Unravelling the mechanism of intracellular oxidation of thiols by (Nâ€¦)â€¦Taurine. <i>Journal of Physical Organic Chemistry</i> , 2013, 26, 1098-1104.	0.9	3
94	Predicted Gasâ€¦Phase and Liquidâ€¦Phase Acidities of Carborane Carboxylic and Dicarboxylic Acids. <i>ChemistrySelect</i> , 2018, 3, 4344-4353.	0.7	3
95	Mechanical Stability Is Key for Large-Scale Implementation of Photocatalytic Surface-Attached Film Technologies in Water Treatment. <i>Frontiers in Chemical Engineering</i> , 2021, 3, .	1.3	3
96	Intramolecular Amino-thiolysis Cyclization of Graphene Oxide Modified with Sulfur Dioxide: XPS and Solid-State NMR Studies. <i>Journal of Physical Chemistry C</i> , 2022, 126, 1729-1741.	1.5	3
97	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> , 2004, 60, o163-o165.	0.4	2
98	1-(3-Chloro-4-fluorophenyl)-5-(2-diazoacetyl)-4-phenylpyrrolidin-2-one. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2010, 66, o2103-o2103.	0.2	2
99	Acidâ€¦catalysed hydrolysis of trityl derivatives in strongly acidic aqueous media. <i>Journal of Physical Organic Chemistry</i> , 2013, 26, 1016-1022.	0.9	2
100	Mechanisms of Solidâ€¦Gas Reactions: Reduction of Air Pollutants on Carbons. <i>Topics in Catalysis</i> , 2020, 63, 817-832.	1.3	2
101	Propanolysis of arenesulfonyl chlorides: Nucleophilic substitution at sulfonyl sulfur. <i>Journal of Physical Organic Chemistry</i> , 2018, 31, e3753.	0.9	2
102	Photocatalytic Degradation of Alachlor over Titania-Reduced Graphene Oxide Nanocomposite: Intrinsic Kinetic Model and Reaction Pathways. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 18907-18917.	1.8	2
103	14-n-Butyldibenz[a,h]acridine. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2003, 59, o514-o516.	0.2	1
104	3,3-Bis(2-furylmethyl)-2-methyl-4-oxocyclohex-1-ene-1-carboxylic acid. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2003, 59, o1141-o1142.	0.2	1
105	Effect of mass of pristine carbon nanotubes on the photolysis of phenylalanine. <i>Journal of Physical Organic Chemistry</i> , 2019, 32, e3849.	0.9	1
106	Photo-immobilization of proteins on carbons. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020, 202, 111675.	1.7	1
107	Diethyl 1-(4-methylphenyl)-3-phenyl-5-oxopyrrolidine-2,2-dicarboxylate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2010, 66, o2104-o2105.	0.2	1
108	Relations structure-reactivity and the positive steric effects of ortho substituents in arenesulfonyl chlorides. , 0, , .		1

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109	2-(2-Furylmethyl)-1-methyl-3-oxocyclohexanecarboxylic acid. Acta Crystallographica Section E: Structure Reports Online, 2003, 59, o1050-o1052.	0.2	0
110	Differential features of short-lived intermediates: Structure, properties and reactivity. Advances in Physical Organic Chemistry, 2020, , 99-118.	0.5	0
111	Effect of ionizing radiation on human myeloperoxidase: Reaction with hydrated electrons. Journal of Photochemistry and Photobiology B: Biology, 2022, 226, 112369.	1.7	0