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 g-index
116 all docs	116 docs citations	116 times ranked	4428 citing authors

#	Article	IF	Citations
1	Effect of ionizing radiation on human myeloperoxidase: Reaction with hydrated electrons. Journal of Photochemistry and Photobiology B: Biology, 2022, 226, 112369.	1.7	0
2	An efficient green photo-Fenton system for the degradation of organic pollutants. Kinetics of propranolol removal from different water matrices. Journal of Water Process Engineering, 2022, 46, 102514.	2.6	10
3	Intramolecular Amino-thiolysis Cyclization of Graphene Oxide Modified with Sulfur Dioxide: XPS and Solid-State NMR Studies. Journal of Physical Chemistry C, 2022, 126, 1729-1741.	1.5	3
4	Removal of emerging pollutants by a 3-step system: Hybrid digester, vertical flow constructed wetland and photodegradation post-treatments. Science of the Total Environment, 2022, 842, 156750.	3.9	15
5	Removal of paracetamol in the presence of iron(III) complexes of glutamic and lactic acid in aqueous solution under NUV irradiation. Separation and Purification Technology, 2021, 261, 118195.	3.9	6
6	First evidence of a photochemical process including an iron-aspartate complex and its use for paracetamol elimination from aqueous solution. Journal of Photochemistry and Photobiology A: Chemistry, 2021, 409, 113132.	2.0	4
7	Mechanical Stability Is Key for Large-Scale Implementation of Photocatalytic Surface-Attached Film Technologies in Water Treatment. Frontiers in Chemical Engineering, 2021, 3, .	1.3	3
8	Photocatalytic Degradation of Alachlor over Titania-Reduced Graphene Oxide Nanocomposite: Intrinsic Kinetic Model and Reaction Pathways. Industrial & Engineering Chemistry Research, 2021, 60, 18907-18917.	1.8	2
9	Photo-immobilization of proteins on carbons. Journal of Photochemistry and Photobiology B: Biology, 2020, 202, 111675.	1.7	1
10	Mechanisms of Solidâ€"Gas Reactions: Reduction of Air Pollutants on Carbons. Topics in Catalysis, 2020, 63, 817-832.	1.3	2
11	Degradation of 2-mercaptobenzothizaole in microbial electrolysis cells: Intermediates, toxicity, and microbial communities. Science of the Total Environment, 2020, 733, 139155.	3.9	17
12	Improved Photocatalyzed Degradation of Phenol, as a Model Pollutant, over Metal-Impregnated Nanosized TiO2. Nanomaterials, 2020, 10, 996.	1.9	22
13	Enhanced Photocatalytic Degradation of the Imidazolinone Herbicide Imazapyr upon UV/Vis Irradiation in the Presence of CaxMnOy-TiO2 Hetero-Nanostructures: Degradation Pathways and Reaction Intermediates. Nanomaterials, 2020, 10, 896.	1.9	4
14	Photo-mechanism of phenolic pollutants in natural water: Effect of salts. Separation and Purification Technology, 2020, , 116868.	3.9	4
15	Chemical and physical characterization of a natural clay and its use as photocatalyst for the degradation of the methabenzthiazuron herbicide in water. Optik, 2020, 219, 165024.	1.4	6
16	Faceâ€Fusion of Icosahedral Boron Hydride Increases Affinity to Î³â€Cyclodextrin: closo , closo â€[B 21 H 18] â^' as an Anion with Very Low Free Energy of Dehydration. ChemPhysChem, 2020, 21, 971-976.	1.0	14
17	Differential features of short-lived intermediates: Structure, properties and reactivity. Advances in Physical Organic Chemistry, 2020, , 99-118.	0.5	0
18	Evidence of non-photo-Fenton degradation of ibuprofen upon UVA irradiation in the presence of Fe(III)/malonate. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 382, 111976.	2.0	8

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19	Fe(III)-citrate enhanced sunlight-driven photocatalysis of aqueous Carbamazepine. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 378, 147-155.	2.0	12
20	Effect of mass of pristine carbon nanotubes on the photolysis of phenylalanine. Journal of Physical Organic Chemistry, 2019, 32, e3849.	0.9	1
21	Simulated sunlight photodegradation of 2-mercaptobenzothiazole by heterogeneous photo-Fenton using a natural clay powder. Journal of Environmental Chemical Engineering, 2018, 6, 1783-1793.	3.3	12
22	Titanium Dioxide Nanoparticle Photocatalysed Degradation of Ibuprofen and Naproxen in Water: Competing Hydroxyl Radical Attack and Oxidative Decarboxylation by Semiconductor Holes. ChemistrySelect, 2018, 3, 10915-10924.	0.7	27
23	Degradation of aqueous ketoprofen by heterogeneous photocatalysis using Bi2S3/TiO2â€"Montmorillonite nanocomposites under simulated solar irradiation. Applied Clay Science, 2018, 166, 27-37.	2.6	64
24	Predicted Gasâ€Phase and Liquidâ€Phase Acidities of Carborane Carboxylic and Dicarboxylic Acids. ChemistrySelect, 2018, 3, 4344-4353.	0.7	3
25	Propanolysis of arenesulfonyl chlorides: Nucleophilic substitution at sulfonyl sulfur. Journal of Physical Organic Chemistry, 2018, 31, e3753.	0.9	2
26	Solvent network at the transition state in the solvolysis of hindered sulfonyl compounds. Journal of Physical Organic Chemistry, 2017, 30, e3588.	0.9	5
27	Heterogeneous photo-Fenton process for degradation of azo dye: Methyl orange using a local cheap material as a photocatalyst under solar light irradiation. Optik, 2017, 137, 6-16.	1.4	21
28	Photocatalytic activity of mont-La (6%)-Cu0.6Cd0.4S catalyst for phenol degradation under near UV visible light irradiation. Applied Catalysis B: Environmental, 2017, 211, 114-125.	10.8	47
29	Effect of the calcination temperature on the photocatalytic efficiency of acidic solâ€"gel synthesized TiO2 nanoparticles in the degradation of alprazolam. Photochemical and Photobiological Sciences, 2017, 16, 935-945.	1.6	18
30	Photocatalyzed degradation/abatement of endocrine disruptors. Current Opinion in Green and Sustainable Chemistry, 2017, 6, 101-138.	3.2	36
31	Photolytic insertion of albumin on activated carbon modified with ozone. Journal of Photochemistry and Photobiology B: Biology, 2017, 174, 261-268.	1.7	6
32	Diclofenac degradation using mont-La (6%)-Cu0.6Cd0.4S as photocatalyst under NUVâ€"Vis irradiation. Operational parameters, kinetics and mechanism. Journal of Environmental Chemical Engineering, 2017, 5, 5636-5644.	3.3	25
33	Reactive Site Model of the Reduction of SO₂ on Graphite. Journal of Physical Chemistry C, 2017, 121, 14649-14657.	1.5	17
34	Interconversion and selective reactivity of sulfur dioxide reduction intermediates inserted on graphene oxide. Journal of Physical Organic Chemistry, 2016, 29, 773-780.	0.9	5
35	Solid-phase extraction of organic compounds: A critical review (Part I). TrAC - Trends in Analytical Chemistry, 2016, 80, 641-654.	5.8	345
36	Solid-phase extraction of organic compounds: A critical review. part ii. TrAC - Trends in Analytical Chemistry, 2016, 80, 655-667.	5.8	231

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37	Isotope Effects in the Solvolysis of Sterically Hindered Arenesulfonyl Chlorides. International Journal of Chemical Kinetics, 2015, 47, 744-750.	1.0	6
38	Photolysis of Phenylalanine in the Presence of Oxidized Carbon Nanotubes. Langmuir, 2015, 31, 164-170.	1.6	6
39	Nonsymmetrical 3,4â€Dithienylmaleimides by Crossâ€Coupling Reactions with Indium Organometallics: Synthesis and Photochemical Studies. Chemistry - A European Journal, 2014, 20, 14524-14530.	1.7	20
40	Acidities of <i>closo</i>-1-COOH-1,7-C₂B₁₀H₁₁ and Amino Acids Based on Icosahedral Carbaboranes. Journal of Physical Chemistry A, 2014, 118, 2788-2793.	1.1	11
41	Selective Insertion of Sulfur Dioxide Reduction Intermediates on Graphene Oxide. Langmuir, 2014, 30, 4301-4309.	1.6	18
42	Mechanism of degradation of ketoprofen by heterogeneous photocatalysis in aqueous solution. Applied Catalysis B: Environmental, 2013, 142-143, 633-646.	10.8	76
43	Environmental Applications of Excitation-Emission Spectrofluorimetry: An In-Depth Review I. Applied Spectroscopy Reviews, 2013, 48, 1-49.	3.4	73
44	Photochemical and photocatalytic degradation of trans-resveratrol. Photochemical and Photobiological Sciences, 2013, 12, 638-644.	1.6	59
45	Environmental Applications of Excitation-Emission Spectrofluorimetry: An In-Depth Review II. Applied Spectroscopy Reviews, 2013, 48, 77-141.	3.4	61
46	Combined Theoretical and Experimental Study of the Photophysics of Asulam. Journal of Physical Chemistry A, 2013, 117, 2125-2137.	1.1	11
47	Acidâ€catalysed hydrolysis of trityl derivatives in strongly acidic aqueous media. Journal of Physical Organic Chemistry, 2013, 26, 1016-1022.	0.9	2
48	Unravelling the mechanism of intracellular oxidation of thiols by (Nâ€Cl)â€Taurine. Journal of Physical Organic Chemistry, 2013, 26, 1098-1104.	0.9	3
49	Photochemistry for pollution abatement. Pure and Applied Chemistry, 2013, 85, 1437-1449.	0.9	17
50	(Re)Greening photochemistry: using light for degrading persistent organic pollutants. Reviews in Environmental Science and Biotechnology, 2012, 11, 213-221.	3.9	15
51	Aqueous degradation of diclofenac by heterogeneous photocatalysis using nanostructured materials. Applied Catalysis B: Environmental, 2011, 107, 110-118.	10.8	207
52	Kinetics and mechanism of aqueous degradation of carbamazepine by heterogeneous photocatalysis using nanocrystalline TiO2, ZnO and multi-walled carbon nanotubesâ€“anatase composites. Applied Catalysis B: Environmental, 2011, 102, 563-571.	10.8	217
53	A theoretical analysis of the acidâ€“base equilibria of hydroxylamine in aqueous solution. Chemical Physics Letters, 2010, 490, 159-164.	1.2	17
54	Energy landscapes in diexo and exo/endo isomers derived from Li2B12H12. Chemical Physics Letters, 2010, 497, 172-177.	1.2	6

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55	1-(3-Chloro-4-fluorophenyl)-5-(2-diazoacetyl)-4-phenylpyrrolidin-2-one. Acta Crystallographica Section E: Structure Reports Online, 2010, 66, o2103-o2103.	0.2	2
56	Diethyl 1-(4-methylphenyl)-3-phenyl-5-oxopyrrolidine-2,2-dicarboxylate. Acta Crystallographica Section E: Structure Reports Online, 2010, 66, o2104-o2105.	0.2	1
57	A theoretical study on the mechanism of the base-promoted decomposition of N-chloro,N-methylethanolamine. Organic and Biomolecular Chemistry, 2009, 7, 1807.	1.5	6
58	Myeloperoxidase-catalyzed chlorination: The quest for the active species. Journal of Inorganic Biochemistry, 2008, 102, 1300-1311.	1.5	27
59	Acidâ€catalysed hydrolysis of methoxyâ€substituted trityl trifluoroethyl ethers: a kinetic and computational investigation of leaving group effects. Journal of Physical Organic Chemistry, 2008, 21, 614-621.	0.9	10
60	The use of XPS spectra for the study of reaction mechanisms: the atom inventory method. Journal of Physical Organic Chemistry, 2008, 21, 1035-1042.	0.9	19
61	Reactivity of the Thermally Stable Intermediates of the Reduction of SO₂ on Carbons and Mechanisms of Insertion of Organic Moieties in the Carbon Matrix. Journal of Physical Chemistry C, 2008, 112, 581-589.	1.5	18
62	Myeloperoxidase-catalyzed taurine chlorination: Initial versus equilibrium rate. Archives of Biochemistry and Biophysics, 2007, 466, 221-233.	1.4	29
63	A DFT study on the microscopic ionization of cysteine in water. Chemical Physics Letters, 2006, 417, 28-33.	1.2	19
64	Extended planarity and Ï€ delocalization in triazine-based derivatives. Chemical Physics Letters, 2006, 426, 290-295.	1.2	14
65	Density functional study of the Hoffmann elimination of (N-Cl),N-methylethanolamine in gas phase and in aqueous solution. Chemical Physics Letters, 2006, 429, 425-429.	1.2	4
66	On the mechanism of TiO2-photocatalyzed degradation of aniline derivatives. Journal of Photochemistry and Photobiology A: Chemistry, 2005, 175, 192-200.	2.0	122
67	On the Low-Lying Excited States ofsym-Triazine-Based Herbicides. ChemPhysChem, 2005, 6, 306-314.	1.0	31
68	Mechanisms of Direct and TiO2-Photocatalysed UV Degradation of Phenylurea Herbicides. ChemPhysChem, 2005, 6, 2064-2074.	1.0	76
69	Developments in the mechanism of photodegradation of triazine-based pesticides. Journal of Physical Organic Chemistry, 2005, 18, 148-155.	0.9	19
70	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. Acta Crystallographica Section C: Crystal Structure Communications, 2004, 60, o163-o165.	0.4	2
71	Base Strengths of Substituted Tritylamines,N-Alkylanilines, and Tribenzylamine in Aqueous Solution and the Gas Phase: Steric Effects Upon Solvation and Resonance Interactions. European Journal of Organic Chemistry, 2004, 2004, 5031-5039.	1.2	7
72	14-n-Butyldibenz[a,h]acridine. Acta Crystallographica Section E: Structure Reports Online, 2003, 59, o514-o516.	0.2	1

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73	2-(2-Furylmethyl)-1-methyl-3-oxocyclohexanecarboxylic acid. Acta Crystallographica Section E: Structure Reports Online, 2003, 59, o1050-o1052.	0.2	0
74	3,3-Bis(2-furylmethyl)-2-methyl-4-oxocyclohex-1-ene-1-carboxylic acid. Acta Crystallographica Section E: Structure Reports Online, 2003, 59, o1141-o1142.	0.2	1
75	Kinetic and mechanistic aspects of the direct photodegradation of atrazine, atraton, ametryn and 2-hydroxyatrazine by 254â€...nm light in aqueous solution. Journal of Physical Organic Chemistry, 2003, 16, 498-503.	0.9	30
76	On the kinetics and energetics of one-electron oxidation of 1,3,5-triazines. Chemical Communications, 2003, , 112-113.	2.2	29
77	Understanding the mechanism of base-assisted decomposition of (N-halo),N-alkylalcoholamines. Organic and Biomolecular Chemistry, 2003, 1, 4323-4328.	1.5	4
78	Reaction pathways and mechanisms of photodegradation of pesticides. Journal of Photochemistry and Photobiology B: Biology, 2002, 67, 71-108.	1.7	529
79	A joint theoretical and kinetic investigation on the fragmentation of (N-halo)-2-amino cycloalkanecarboxylates. Chemical Physics, 2002, 280, 1-14.	0.9	6
80	Intracellular oxidation of dipeptides. Very fast halogenation of the amino-terminal residue. Perkin Transactions II RSC, 2001, , 608-612.	1.1	14
81	N-Tritylhydroxylamines: preparations, structures, base strengths, and reactions with nitrous acid and perchloric acid. Perkin Transactions II RSC, 2001, , 1742-1747.	1.1	9
82	Substituent effects upon rates of deamination and base strengths of substituted N-tritylamines. Perkin Transactions II RSC, 2001, , 1748-1752.	1.1	10
83	Intracellular Oxidation of Dipeptides. Base-Promoted Elimination fromN-Halodipeptides to 2-[N-Alkyl-N-(2-N-alkylimino-2-alkylethanoyl)amino]-2,2-dialkylethanoic Acids. Journal of Organic Chemistry, 2001, 66, 5692-5700.	1.7	3
84	Microalgal Bioassays as a Test of Pesticide Photodegradation Efficiency in Water. Bulletin of Environmental Contamination and Toxicology, 2001, 67, 233-238.	1.3	5
85	First stages of photodegradation of the urea herbicides Fenuron, Monuron and Diuron. Journal of Molecular Structure, 2001, 565-566, 133-139.	1.8	27
86	Photo- and Radiation-Chemical Formation and Electrophilic and Electron Transfer Reactivities of Enolether Radical Cations in Aqueous Solution. Chemistry - A European Journal, 2001, 7, 4640-4650.	1.7	20
87	A B3LYP/6-31G** study on the chlorination of ammonia by hypochlorous acid. Chemical Physics Letters, 2001, 342, 405-410.	1.2	24
88	Dissolved and particulate organic nitrogen in shelf waters of northern Spain during spring. Marine Ecology - Progress Series, 2001, 214, 43-54.	0.9	9
89	First Steps in the Oxidation of Sulfur-Containing Amino Acids by Hypohalogenation: Very Fast Generation of Intermediate Sulfenyl Halides and Halosulfonium Cations. Tetrahedron, 2000, 56, 1103-1109.	1.0	109
90	Preparations, X-ray crystal structure determinations, and base strength measurements of substituted tritylamines. Perkin Transactions II RSC, 2000, , 85-92.	1.1	17

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91	Photo- and Radiation-Chemical Generation and Thermodynamic Properties of the Aminium and Aminyl Radicals Derived fromN-Phenylglycine and (N-Chloro,N-phenyl)glycine in Aqueous Solution: Evidence for a New Photoionization Mechanism for Aromatic Amines. Chemistry - A European Journal, 1999, 5, 1192-1201.	1.7	25
92	Solvent isotope effects in the oxidation of dipeptides by aqueous chlorine. Canadian Journal of Chemistry, 1999, 77, 997-1004.	0.6	5
93	Aqueous chemistry of N-halo-compounds. Chemical Society Reviews, 1998, 27, 453.	18.7	122
94	Oxidation of aliphatic amines by aqueous chlorine. Tetrahedron, 1998, 54, 521-530.	1.0	115
95	Evidence for an intramolecular elimination mechanism in the aqueous decomposition of (N-Cl)-alcoholamines. Tetrahedron, 1997, 53, 2565-2572.	1.0	8
96	Seasonal Variations of Nutrients, Seston and Phytoplankton, and Upwelling Intensity off La CoruÃ±a (NW Spain). Estuarine, Coastal and Shelf Science, 1997, 44, 767-778.	0.9	73
97	Evidence for the intermediacy of N-(2-imino, 1-oxo-propyl)-glycine in the base-catalyzed decomposition of N-halo-dipeptides. Tetrahedron, 1997, 53, 12615-12620.	1.0	6
98	Theoretical study of substituent effects in the unimolecular decomposition of N-chloro-?-amino acid anions. Analysis of transition structure and molecular reaction mechanism. Journal of Physical Organic Chemistry, 1996, 9, 371-380.	0.9	9
99	Concerted base-promoted elimination in the decomposition ofN-halo amino acids. Journal of Physical Organic Chemistry, 1996, 9, 552-560.	0.9	21
100	Unimolecular Decomposition of the Anionic Form ofN-Chloro-Î±-glycine. A Theoretical Study. The Journal of Physical Chemistry, 1996, 100, 3561-3568.	2.9	14
101	Rate and equilibrium constants for oxazolidine and thiazolidine ring-opening reactions. Pure and Applied Chemistry, 1996, 68, 813-818.	0.9	11
102	Acid-base equilibria and decomposition of secondary (N-Cl)-Î±-amino acids.. Tetrahedron, 1994, 50, 10509-10520.	1.0	9
103	Alkoxide-promoted decomposition of N-halo-Î±-amino acids in aqueous medium.. Tetrahedron, 1994, 50, 2265-2276.	1.0	5
104	General base catalysis in the decomposition ofN-Cl-Valine in aqueous solution. International Journal of Chemical Kinetics, 1994, 26, 1041-1053.	1.0	6
105	N Reactivity vs. O reactivity in aqueous chlorination. International Journal of Chemical Kinetics, 1994, 26, 1135-1141.	1.0	21
106	Concerted Grob Fragmentation in N-Halo-.alpha.-amino Acid Decomposition. Journal of Organic Chemistry, 1994, 59, 4659-4664.	1.7	33
107	Nitrenium ions in N-chloro-?-amino acids decomposition?. International Journal of Chemical Kinetics, 1993, 25, 1-8.	1.0	16
108	An operational approach toN-Cl-?-amino acids decomposition. International Journal of Chemical Kinetics, 1993, 25, 331-339.	1.0	26

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109	Î±-amino acids chlorination in aqueous media. Tetrahedron, 1993, 49, 275-284.	1.0	70
110	Decomposition of N-chloro-Î±-amino acids in alkaline medium. Journal of the Chemical Society Perkin Transactions II, 1993, , 181-185.	0.9	15
111	Relations structure-reactivity and the positive steric effects of ortho substituents in arenesulfonyl chlorides. , 0, , .		1