

Mnica C Gonzalez

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111 papers	2,478 citations	29 h-index	44 g-index
116 ext. papers	2,795 ext. citations	4.5 avg, IF	4.71 L-index

#	Paper	IF	Citations
111	Kinetic Study of the Reactions of Chlorine Atoms and Cl ₂ • ⁻ Radical Anions in Aqueous Solutions. 1. Reaction with Benzene. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 3117-3125	2.8	125
110	Kinetic Study of the Reactions of Chlorine Atoms and Cl ₂ • ⁻ Radical Anions in Aqueous Solutions. II. Toluene, Benzoic Acid, and Chlorobenzene. <i>Journal of Physical Chemistry A</i> , 2001 , 105, 5385-5392	2.8	104
109	VUV photolysis of aqueous solutions of nitrate and nitrite. <i>Research on Chemical Intermediates</i> , 1995 , 21, 837-859	2.8	101
108	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
107	Novel Magnetite Nanoparticles Coated with Waste-Sourced Biobased Substances as Sustainable and Renewable Adsorbing Materials. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 1518-1524	8.3	81
106	Thermally activated peroxydisulfate in the presence of additives: a clean method for the degradation of pollutants. <i>Chemosphere</i> , 2009 , 75, 1405-9	8.4	77
105	A combined theoretical and experimental study on the oxidation of fulvic acid by the sulfate radical anion. <i>Photochemical and Photobiological Sciences</i> , 2009 , 8, 992-7	4.2	72
104	Abatement of the inhibitory effect of chloride anions on the photo-Fenton process. <i>Environmental Science & Technology</i> , 2007 , 41, 8459-63	10.3	70
103	Reactivity of neonicotinoid insecticides with carbonate radicals. <i>Water Research</i> , 2012 , 46, 3479-89	12.5	69
102	Theoretical and experimental investigation on the oxidation of gallic acid by sulfate radical anions. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 1188-94	2.8	60
101	Paramagnetic iron-doped hydroxyapatite nanoparticles with improved metal sorption properties. A bioorganic substrates-mediated synthesis. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 3937-46	9.5	55
100	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
99	Kinetic study of the reactions of oxoiron(IV) with aromatic substrates in aqueous solutions. <i>International Journal of Chemical Kinetics</i> , 2002 , 34, 488-494	1.4	48
98	Photophysical properties of blue - emitting silicon nanoparticles. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 13694-13702	3.8	46
97	Oxidized silicon nanoparticles for radiosensitization of cancer and tissue cells. <i>Biochemical and Biophysical Research Communications</i> , 2013 , 434, 217-22	3.4	45
96	Kinetics of the sulfate radical-mediated photo-oxidation of humic substances. <i>International Journal of Chemical Kinetics</i> , 2008 , 40, 19-24	1.4	41
95	Reactions of carbon dioxide radical anion with substituted benzenes. <i>Journal of Physical Organic Chemistry</i> , 2001 , 14, 300-309	2.1	41

94	Photoluminescent 12 nm Sized Silicon Nanoparticles: A Surface-Dependent System. <i>Chemistry of Materials</i> , 2013 , 25, 3488-3498	9.6	39
93	Hydroxyl radical initiated photodegradation of 4-chloro-3,5-dinitrobenzoic acid in aqueous solution. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2000 , 137, 177-184	4.7	38
92	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
91	Reactivity of neonicotinoid pesticides with singlet oxygen. <i>Catalysis Today</i> , 2010 , 151, 137-142	5.3	37
90	Phenol depletion by thermally activated peroxydisulfate at 70°C. <i>Chemosphere</i> , 2011 , 84, 1270-5	8.4	36
89	Silicon nanoparticle photophysics and singlet oxygen generation. <i>Langmuir</i> , 2010 , 26, 10953-60	4	35
88	Mineralization of CCl ₄ by the UVC-photolysis of hydrogen peroxide in the presence of methanol. <i>Chemosphere</i> , 2007 , 69, 1238-44	8.4	34
87	Vacuum-UV photolysis of aqueous solutions of nitrate: effect of organic matter I. Phenol. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1996 , 93, 7-19	4.7	33
86	Analysis of spectrally resolved kinetic data and time-resolved spectra by bilinear regression. <i>The Journal of Physical Chemistry</i> , 1989 , 93, 3532-3536		33
85	Intramolecular photochemical electron transfer to acceptors in a β -cyclodextrin linked to a porphyrin. <i>Journal of the Chemical Society Chemical Communications</i> , 1984 , 1138-1140		31
84	Chloride anion effect on the advanced oxidation processes of methidathion and dimethoate: role of Cl ₂ ([•]) radical. <i>Water Research</i> , 2013 , 47, 351-62	12.5	30
83	Understanding the Parameters Affecting the Photoluminescence of Silicon Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 11315-11325	3.8	30
82	Reactions of phosphate radicals with substituted benzenes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1998 , 116, 21-25	4.7	29
81	ROS enhancement by silicon nanoparticles in X-ray irradiated aqueous suspensions and in glioma C6 cells. <i>Journal of Nanoparticle Research</i> , 2012 , 14, 1	2.3	28
80	Trichloroacetic acid dehalogenation by reductive radicals. <i>Inorganica Chimica Acta</i> , 2007 , 360, 1209-1216	2.7	28
79	Visible Light Induced Cationic Polymerization of Epoxides by Using Multiwalled Carbon Nanotubes. <i>Macromolecular Rapid Communications</i> , 2018 , 39, e1800250	4.8	27
78	Organic coating of 12-nm-size silicon nanoparticles: Effect on particle properties. <i>Nano Research</i> , 2015 , 8, 2047-2062	10	24
77	Vacuum UV photolysis of aqueous solutions of nitrate. Effect of organic matter II. Methanol. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1996 , 95, 67-72	4.7	24

76	Reactions of Phosphate Radicals with Monosubstituted Benzenes. A Mechanistic Investigation. <i>Helvetica Chimica Acta</i> , 2003 , 86, 2509-2524	2	23
75	Aqueous Phase Kinetic Studies Involving Intermediates of Environmental Interest: Phosphate Radicals and Their Reactions with Substituted Benzenes. <i>Progress in Reaction Kinetics and Mechanism</i> , 2001 , 26, 201-218	0.5	23
74	Preparation and properties of a linked porphyrin β -cyclodextrin. <i>Canadian Journal of Chemistry</i> , 1985 , 63, 602-608	0.9	23
73	Bone Diseases: Current Approach and Future Perspectives in Drug Delivery Systems for Bone Targeted Therapeutics. <i>Nanomaterials</i> , 2020 , 10,	5.4	22
72	Reactions of phosphate radicals with substituted benzenes. A structure-reactivity correlation study. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1998 , 94, 2933-2937		22
71	Reaction of sulfate and phosphate radicals with p-trifluorotoluene. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1999 , 205-210		22
70	Photoinduced reduction of divalent mercury by quinones in the presence of formic acid under anaerobic conditions. <i>Chemosphere</i> , 2012 , 89, 1189-94	8.4	21
69	Evaluation of the Hg ²⁺ binding potential of fulvic acids from fluorescence excitation-emission matrices. <i>Photochemical and Photobiological Sciences</i> , 2013 , 12, 384-92	4.2	21
68	Bioactive glass (45S5)-based 3D scaffolds coated with magnesium and zinc-loaded hydroxyapatite nanoparticles for tissue engineering applications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019 , 182, 110346	6	20
67	Degradation of the herbicides clomazone, paraquat, and glyphosate by thermally activated peroxydisulfate. <i>Journal of Agricultural and Food Chemistry</i> , 2010 , 58, 12858-62	5.7	20
66	Reactions of sulphate radicals with substituted pyridines: a structure-reactivity correlation analysis. <i>ChemPhysChem</i> , 2007 , 8, 2498-505	3.2	20
65	Kinetics of the interaction of sulfate and hydrogen phosphate radicals with small peptides of glycine, alanine, tyrosine and tryptophan. <i>Photochemical and Photobiological Sciences</i> , 2005 , 4, 840-6	4.2	19
64	Reaction kinetics and mechanisms of neonicotinoid pesticides with sulfate radicals. <i>New Journal of Chemistry</i> , 2011 , 35, 672-680	3.6	18
63	Oxidative degradation of nitrogen-containing organic compounds: vacuum-ultraviolet (VUV) photolysis of aqueous solutions of 3-amino 5-methylisoxazole. <i>Fresenius Journal of Analytical Chemistry</i> , 1995 , 351, 92-97		18
62	Fluorescent silica nanoparticles with chemically reactive surface: Controlling spatial distribution in one-step synthesis. <i>Journal of Colloid and Interface Science</i> , 2017 , 496, 456-464	9.3	17
61	Synthesis and Characterization of Butoxylated Silica Nanoparticles. Reaction with Benzophenone Triplet States. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 7623-7628	3.8	17
60	Reaction kinetics and mechanisms of organosilicon fungicide flusilazole with sulfate and hydroxyl radicals. <i>Chemosphere</i> , 2018 , 190, 327-336	8.4	16
59	Photoinduced degradation of the herbicide clomazone model reactions for natural and technical systems. <i>Photochemistry and Photobiology</i> , 2009 , 85, 686-92	3.6	16

58	Photodegradation of soil organic matter and its effect on gram-negative bacterial growth. <i>Photochemistry and Photobiology</i> , 2008 , 84, 1126-32	3.6	16
57	The flash photolysis of di-Ebxo-bis(oxo-molybdate(V)) acid aqueous solutions in the presence of excess thiocyanate. <i>International Journal of Chemical Kinetics</i> , 1991 , 23, 457-472	1.4	16
56	Effect of Silver Nanoparticles on the Photophysics of Riboflavin: Consequences on the ROS Generation. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 21967-21975	3.8	15
55	Reduction of mercury(II) by the carbon dioxide radical anion: a theoretical and experimental investigation. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 12845-50	2.8	15
54	Kinetics of O ₂ ^{•-} and O ₃ ^{•-} in alkaline aqueous solutions of hydrogen peroxide. <i>International Journal of Chemical Kinetics</i> , 1997 , 29, 589-597	1.4	15
53	Multi-walled carbon nanotubes photochemistry: A mechanistic view of the effect of impurities and oxygen-containing surface groups. <i>Carbon</i> , 2018 , 138, 161-168	10.4	14
52	Impact of Iron Incorporation on 28 nm Size Silicon Nanoparticles Properties. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 5739-5746	3.8	12
51	Flash photolysis of aqueous solutions of bis(Ebxo) bis(oxo-molybdenum(V)). <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1989 , 48, 69-79	4.7	12
50	Photochemistry of aqueous solutions of triphenyltetrazolium chloride. <i>The Journal of Physical Chemistry</i> , 1989 , 93, 3536-3540		12
49	Toward biomedical application of amino-functionalized silicon nanoparticles. <i>Nanomedicine</i> , 2018 , 13, 1349-1370	5.6	12
48	BSA-capped gold nanoclusters as potential theragnostic for skin diseases: Photoactivation, skin penetration, in vitro, and in vivo toxicity. <i>Materials Science and Engineering C</i> , 2020 , 112, 110891	8.3	11
47	One-electron oxidation of antioxidants: a kinetic-thermodynamic correlation. <i>Redox Report</i> , 2013 , 18, 205-9	5.9	10
46	Chemisorbed Thiols on Silica Particles: Characterization of Reactive Sulfur Species. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 5080-5087	3.8	10
45	Safranine-T Triplet-State Quenching by Modified Silica Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 18122-18130	3.8	10
44	Yerba Mate applications: Magnetic response of powders and colloids of iron oxide nanoparticles coated with Ilex paraguariensis derivatives. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 462, 13-21	2.8	9
43	Ilex paraguariensis Extract-Coated Magnetite Nanoparticles: A Sustainable Nano-adsorbent and Antioxidant. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2018 , 28, 519-527	3.2	9
42	Tuning the nitrogen content of carbon dots in carbon nitride nanoflakes. <i>Carbon</i> , 2020 , 167, 230-243	10.4	8
41	Polyethylene glycol-coated blue-emitting silicon dots with improved properties for uses in aqueous and biological environments. <i>Nanotechnology</i> , 2016 , 27, 475704	3.4	8

40	Delivery of fluorophores by calcium phosphate-coated nanoliposomes and interaction with <i>Staphylococcus aureus</i> biofilms. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016 , 142, 214-222	6	8
39	Photolytic and radiolytic oxidation of humic acid. <i>Photochemistry and Photobiology</i> , 2012 , 88, 810-5	3.6	8
38	Triplet state of 4-methoxybenzyl alcohol chemisorbed on silica nanoparticles. <i>Photochemical and Photobiological Sciences</i> , 2012 , 11, 1032-40	4.2	8
37	A Kinetic Study of the Reactions of Sulfate Radicals at the Silica Nanoparticle-Water Interface. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 6131-6138	3.4	8
36	The flash photolysis of di- E^{oxo} -bis(oxo-molybdate(V)) acid aqueous solutions in the presence of excess chloride. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1993 , 69, 277-285	4.7	8
35	Water/silica nanoparticle interfacial kinetics of sulfate, hydrogen phosphate, and dithiocyanate radicals. <i>Photochemistry and Photobiology</i> , 2005 , 81, 1526-33	3.6	7
34	Nanohydroxyapatite Exerts Cytotoxic Effects and Prevents Cellular Proliferation and Migration in Glioma Cells. <i>Toxicological Sciences</i> , 2019 , 169, 34-42	4.4	7
33	Kinetic evidence for the reaction of $\text{O}^{\cdot-}$ radical ions and peroxodisulfate in alkaline aqueous solutions. <i>International Journal of Chemical Kinetics</i> , 1998 , 30, 491-496	1.4	6
32	Reactions of $\text{Cl}^{\cdot}/\text{Cl}_2^{\cdot-}$ radicals with the nanoparticle silica surface and with humic acids: model reactions for the aqueous phase chemistry of the atmosphere. <i>Photochemistry and Photobiology</i> , 2007 , 83, 944-51	3.6	6
31	Kinetic studies on the sulfate radical-initiated polymerization of vinyl acetate and 4-vinyl pyridine in the presence of silica nanoparticles. <i>Langmuir</i> , 2005 , 21, 8001-9	4	6
30	Versatile Fe-Containing Hydroxyapatite Nanomaterials as Efficient Substrates for Lead Ions Adsorption. <i>Journal of Nanoscience and Nanotechnology</i> , 2017 , 17, 9081-9090	1.3	5
29	The use of molecular probes for the characterization of dispersions of functionalized silica nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2009 , 73, 54-60	4.4	5
28	Volume and enthalpy changes of peroxodiphosphate dissociation. <i>Chemical Physics Letters</i> , 2003 , 373, 176-181	2.5	5
27	Electron transfer reactions of singlet molecular oxygen with phenols. <i>Journal of Physical Organic Chemistry</i> , 2000 , 13, 208-212	2.1	5
26	Comparative toxicity of PEG and folate-derived blue-emitting silicon nanoparticles: in vitro and in vivo studies. <i>Nanomedicine</i> , 2019 , 14, 375-385	5.6	4
25	Silanization effect on the photoluminescence characteristics of crystalline and amorphous silicon nanoparticles. <i>Photochemical and Photobiological Sciences</i> , 2013 , 12, 1658-65	4.2	4
24	Kinetic study of the oxidation of phenolic derivatives of alpha,alpha,alpha-trifluorotoluene by singlet molecular oxygen [$\text{O}_2(1\Delta(\text{g}))$] and hydrogen phosphate radicals. <i>Photochemical and Photobiological Sciences</i> , 2003 , 2, 882-7	4.2	4
23	Properties of singlet- and triplet-excited states of hemicyanine dyes. <i>Chemical Papers</i> , 2014 , 68,	1.9	3

22	Generation of chemisorbed benzyl radicals on silica nanoparticles. <i>Photochemistry and Photobiology</i> , 2010 , 86, 1208-14	3.6	3
21	Alloxan-dialuric acid cycling: a complex redox mechanism. <i>Free Radical Research</i> , 2009 , 43, 93-9	4	3
20	A kinetic study of the reactions of sulfate and dihydrogen phosphate radicals with epicatechin, epicatechingallate, and epigallocatechingallate. <i>International Journal of Chemical Kinetics</i> , 2010 , 42, 391-396	3.4	3
19	Kinetics of the Reactions of $O_2^{\cdot-}$ and HO_2^{\cdot} with α,α,α -Trifluorotoluene and 4-Fluorotoluene <i>Journal of Chemical Research Synopses</i> , 1997 , 172-173		3
18	The flash photolysis of di- μ -thio-bis(oxo-molybdate(V)) complexes in acidic aqueous solutions. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1992 , 63, 149-160	4.7	3
17	The kinetics of the gas phase photochlorination of hexafluoropropene. <i>Journal of Photochemistry and Photobiology</i> , 1981 , 15, 303-311		3
16	Staphylococcus aureus biofilm eradication by the synergistic effect exerted by PEG-coated silicon dots immobilized in silica films and light irradiation. <i>Nanotechnology</i> , 2021 , 32, 095105	3.4	3
15	Silicon Quantum Dots Metal-Enhanced Photoluminescence by Gold Nanoparticles in Colloidal Ensembles: Effect of Surface Coating. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 26865-26875	3.8	3
14	Luminescence properties and ROS generation of magnetic porous silicon nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020 , 592, 124577	5.1	2
13	VUV-photolysis of aqueous solutions of hydroxylamine and nitric oxide. Effect of organic matter: phenol. <i>Photochemical and Photobiological Sciences</i> , 2019 , 18, 2240-2247	4.2	2
12	Flash-photolysis of di- μ -oxo-bis(oxomolybdate(V)) in the presence of bromide ion. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1997 , 108, 117-121	4.7	2
11	Environmental Photochemistry in Heterogeneous Media 2005 , 49-75		2
10	The flash photolysis of pyridinium di- μ -oxo-bis(oxo tris (isothiocyanate) molybdate(V)) in ethyl acetate. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1992 , 67, 267-277	4.7	2
9	Degradation of melamine in aqueous systems by vacuum UV-(VUV-) photolysis. An alternative to photocatalysis. <i>Catalysis Today</i> , 2020 , 340, 286-293	5.3	2
8	Amorphous calcium organophosphate nanoshells as potential carriers for drug delivery to Ca^{2+} -enriched surfaces. <i>New Journal of Chemistry</i> , 2020 , 44, 7541-7551	3.6	2
7	Photolysis of polyphosphate ions in alkaline aqueous solution. <i>International Journal of Chemical Kinetics</i> , 2000 , 32, 111-117	1.4	1
6	The kinetics of the photochlorination of perfluoro-2-butene under intermittent light. <i>Journal of Photochemistry and Photobiology</i> , 1982 , 19, 229-234		1
5	Environmentally Induced Changes of Commercial Carbon Nanotubes in Aqueous Suspensions. Adaptive Behavior of Bacteria in Biofilms. <i>ACS Omega</i> , 2021 , 6, 5197-5208	3.9	1

- 4 Non-purified commercial multiwalled carbon nanotubes supported on electrospun polyacrylonitrile@polypyrrole nanofibers as photocatalysts for water decontamination.. *RSC Advances*, **2021**, 11, 9911-9920 3.7 ○
- 3 Ground State Complexes between 5-(4-Carboxyphenyl)-10,15,20-Triitolyl Porphyrin and Benzoquinones. *Journal Für Praktische Chemie, Chemiker-Zeitung*, **1993**, 335, 515-520
- 2 Different Impact of Suspended ALO Nanoparticles on Microbial Communities: Formation of 2D-Networks (Without Humic Acids) or 3D-Colonies (With Humic Acids).. *Microbial Ecology*, **2022**, 1 4.4
- 1 Silicon dots in radiotherapy. *Series in Materials Science and Engineering*, **2017**, 431-442