

# Amaya Azqueta

## List of Publications by Year in descending order

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122  
papers

6,761  
citations

66250

44  
h-index

73587

79  
g-index

133  
all docs

133  
docs citations

133  
times ranked

8863  
citing authors

#	ARTICLE	IF	CITATIONS
1	In Vitro Genotoxicity Evaluation of an Antiseptic Formulation Containing Kaolin and Silver Nanoparticles. <i>Nanomaterials</i> , 2022, 12, 914.	1.9	5
2	Genotoxicity of Graphene-Based Materials. <i>Nanomaterials</i> , 2022, 12, 1795.	1.9	8
3	Do cytotoxicity and cell death cause false positive results in the in vitro comet assay?. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2022, 881, 503520.	0.9	20
4	DNA damage and DNA protection from digested raw and griddled green pepper (poly)phenols in human colorectal adenocarcinoma cells (HT-29). <i>European Journal of Nutrition</i> , 2021, 60, 677-689.	1.8	7
5	The enzyme-modified comet assay: Past, present and future. <i>Food and Chemical Toxicology</i> , 2021, 147, 111865.	1.8	46
6	The hCOMET project: International database comparison of results with the comet assay in human biomonitoring. Baseline frequency of DNA damage and effect of main confounders. <i>Mutation Research - Reviews in Mutation Research</i> , 2021, 787, 108371.	2.4	45
7	In Vitro Genotoxicity Assessment of Functional Ingredients: Betaine, Choline, and Taurine. <i>Foods</i> , 2021, 10, 339.	1.9	5
8	Salivary leucocytes as suitable biomatrix for the comet assay in human biomonitoring studies. <i>Archives of Toxicology</i> , 2021, 95, 2179-2187.	1.9	5
9	Collection and storage of human white blood cells for analysis of DNA damage and repair activity using the comet assay in molecular epidemiology studies. <i>Mutagenesis</i> , 2021, 36, 193-212.	1.0	20
10	2-Phenoxy-3-Trichloromethylquinoxalines Are Antiplasmodial Derivatives with Activity against the Apicoplast of <i>Plasmodium falciparum</i> . <i>Pharmaceuticals</i> , 2021, 14, 724.	1.7	5
11	Validation of the in vitro comet assay for DNA cross-links and altered bases detection. <i>Archives of Toxicology</i> , 2021, 95, 2825-2838.	1.9	17
12	In vitro genotoxicity assessment of functional ingredients: DHA, rutin and Î±-tocopherol. <i>Food and Chemical Toxicology</i> , 2021, 153, 112237.	1.8	9
13	DNA damage in circulating leukocytes measured with the comet assay may predict the risk of death. <i>Scientific Reports</i> , 2021, 11, 16793.	1.6	36
14	In vitro mutagenicity assessment of fried meat-based food from mass catering companies. <i>Food and Chemical Toxicology</i> , 2021, 156, 112494.	1.8	1
15	Antiplasmodial 2-thiophenoxy-3-trichloromethyl quinoxalines target the apicoplast of <i>Plasmodium falciparum</i> . <i>European Journal of Medicinal Chemistry</i> , 2021, 224, 113722.	2.6	4
16	Genotoxicity evaluation of fried meat: A comprehensive review. <i>Food and Chemical Toxicology</i> , 2020, 136, 110943.	1.8	9
17	Application of the comet assay in human biomonitoring: An hCOMET perspective. <i>Mutation Research - Reviews in Mutation Research</i> , 2020, 783, 108288.	2.4	95
18	An optimized comet-based in vitro DNA repair assay to assess base and nucleotide excision repair activity. <i>Nature Protocols</i> , 2020, 15, 3844-3878.	5.5	33

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19	Antikinetoplastid SAR study in 3-nitroimidazopyridine series: Identification of a novel non-genotoxic and potent anti-T.Åb. brucei hit-compound with improved pharmacokinetic properties. <i>European Journal of Medicinal Chemistry</i> , 2020, 206, 112668.	2.6	11
20	Minimum Information for Reporting on the Comet Assay (MIRCA): recommendations for describing comet assay procedures and results. <i>Nature Protocols</i> , 2020, 15, 3817-3826.	5.5	189
21	Tellurides Bearing Sulfonamides as Novel Inhibitors of Leishmanial Carbonic Anhydrase with Potent Antileishmanial Activity. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 4306-4314.	2.9	28
22	European Regulatory Framework and Safety Assessment of Food-Related Bioactive Compounds. <i>Nutrients</i> , 2020, 12, 613.	1.7	35
23	Bioactive Compounds from Seaweed with Anti-Leukemic Activity: A Mini-Review on Carotenoids and Phlorotannins. <i>Mini-Reviews in Medicinal Chemistry</i> , 2020, 20, 39-53.	1.1	15
24	Genotoxicity of Silver Nanoparticles. <i>Nanomaterials</i> , 2020, 10, 251.	1.9	64
25	The role of the enzyme-modified comet assay in in vivo studies. <i>Toxicology Letters</i> , 2020, 327, 58-68.	0.4	8
26	Potassium bromate as positive assay control for the Fpg-modified comet assay. <i>Mutagenesis</i> , 2020, 35, 341-348.	1.0	32
27	Novel approach for the detection of alkylated bases using the enzyme-modified comet assay. <i>Toxicology Letters</i> , 2020, 330, 108-117.	0.4	16
28	Rational modification of Mannich base-type derivatives as novel antichagasic compounds: Synthesis, in vitro and in vivo evaluation. <i>Bioorganic and Medicinal Chemistry</i> , 2019, 27, 3902-3917.	1.4	17
29	Applying the comet assay to fresh vs frozen animal solid tissues: A technical approach. <i>Food and Chemical Toxicology</i> , 2019, 132, 110671.	1.8	8
30	The enzyme-modified comet assay: Enzyme incubation step in 2 vs 12-gels/slide systems. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2019, 845, 402981.	0.9	14
31	Technical recommendations to perform the alkaline standard and enzyme-modified comet assay in human biomonitoring studies. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2019, 843, 24-32.	0.9	58
32	DNA repair as a human biomonitoring tool: Comet assay approaches. <i>Mutation Research - Reviews in Mutation Research</i> , 2019, 781, 71-87.	2.4	40
33	Cytotoxic activity of fucoxanthin, alone and in combination with the cancer drugs imatinib and doxorubicin, in CML cell lines. <i>Environmental Toxicology and Pharmacology</i> , 2018, 59, 24-33.	2.0	25
34	Standardisation of the in vitro comet assay: influence of lysis time and lysis solution composition on the detection of DNA damage induced by X-rays. <i>Mutagenesis</i> , 2018, 33, 25-30.	1.0	21
35	The comet assay applied to cells of the eye. <i>Mutagenesis</i> , 2018, 33, 21-24.	1.0	5
36	Is oxidative stress involved in the sex-dependent response to ochratoxin A renal toxicity?. <i>Food and Chemical Toxicology</i> , 2018, 116, 379-387.	1.8	11

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37	Drug resistance in glioblastoma and cytotoxicity of seaweed compounds, alone and in combination with anticancer drugs: A mini review. <i>Phytomedicine</i> , 2018, 48, 84-93.	2.3	30
38	Second Generation of Mannich Base-Type Derivatives with <i>in Vivo</i> Activity against <i>Trypanosoma cruzi</i> . <i>Journal of Medicinal Chemistry</i> , 2018, 61, 5643-5663.	2.9	32
39	In vitro evaluation of the genotoxicity of poly(anhydride) nanoparticles designed for oral drug delivery. <i>International Journal of Pharmaceutics</i> , 2017, 523, 418-426.	2.6	14
40	Evaluation of the cytotoxicity, genotoxicity and mucus permeation capacity of several surface modified poly(anhydride) nanoparticles designed for oral drug delivery. <i>International Journal of Pharmaceutics</i> , 2017, 517, 67-79.	2.6	33
41	Genotoxic evaluation of poly(anhydride) nanoparticles in the gastrointestinal tract of mice. <i>International Journal of Pharmaceutics</i> , 2017, 530, 187-194.	2.6	4
42	Biological Evaluation of Arylamine Mannich Base Derivatives with Potent <i>In Vivo</i> Activity as Potent Antichagasic Agents. <i>Proceedings (mdpi)</i> , 2017, 1, .	0.2	0
43	Unveiling the Metabolic Changes on Muscle Cell Metabolism Underlying p-Phenylenediamine Toxicity. <i>Frontiers in Molecular Biosciences</i> , 2017, 4, 8.	1.6	7
44	Polyphenols and DNA Damage: A Mixed Blessing. <i>Nutrients</i> , 2016, 8, 785.	1.7	89
45	Purported Interactions of Amyloid- $\beta^2$ and Glucocorticoids in Cytotoxicity and Genotoxicity: Implications in Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2016, 54, 1085-1094.	1.2	2
46	Toxicological Aspects of Polymer Nanoparticles. , 2016, , 521-550.		1
47	Is oxidative stress involved in OTA renal toxicity?. <i>Toxicology Letters</i> , 2016, 258, S247.	0.4	4
48	In Vitro and in Vivo Anti- <i>Trypanosoma cruzi</i> Activity of New Arylamine Mannich Base-Type Derivatives. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 10929-10945.	2.9	30
49	Synthesis and biological evaluation of quinoxaline di-N -oxide derivatives with in vitro trypanocidal activity. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 903-906.	1.0	16
50	The use of the comet assay for the evaluation of the genotoxicity of nanomaterials. <i>Frontiers in Genetics</i> , 2015, 6, 239.	1.1	62
51	The comet assay: past, present, and future. <i>Frontiers in Genetics</i> , 2015, 6, 266.	1.1	103
52	Genotoxicity of Aflatoxin B1 and Ochratoxin A after simultaneous application of the in vivo micronucleus and comet assay. <i>Food and Chemical Toxicology</i> , 2015, 76, 116-124.	1.8	58
53	Assessing the carcinogenic potential of low-dose exposures to chemical mixtures in the environment: the challenge ahead. <i>Carcinogenesis</i> , 2015, 36, S254-S296.	1.3	239
54	Causes of genome instability: the effect of low dose chemical exposures in modern society. <i>Carcinogenesis</i> , 2015, 36, S61-S88.	1.3	149

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55	Toxicity evaluation of nanocarriers for the oral delivery of macromolecular drugs. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015, 97, 206-217.	2.0	21
56	Preliminary study of genotoxicity evaluation of orthodontic miniscrews on mucosa oral cells by the alkaline comet assay. <i>Toxicology Mechanisms and Methods</i> , 2015, 25, 487-493.	1.3	2
57	Does the duration of lysis affect the sensitivity of the in vitro alkaline comet assay?. <i>Mutagenesis</i> , 2015, 30, 21-28.	1.0	26
58	Critical factors to be considered when testing nanomaterials for genotoxicity with the comet assay. <i>Mutagenesis</i> , 2015, 30, 85-88.	1.0	37
59	Assessment of DNA damage using comet assay in middle-aged overweight/obese subjects after following a hypocaloric diet supplemented with cocoa extract. <i>Mutagenesis</i> , 2015, 30, 139-146.	1.0	18
60	High throughput sample processing and automated scoring. <i>Frontiers in Genetics</i> , 2014, 5, 373.	1.1	17
61	Comet assay to measure DNA repair: approach and applications. <i>Frontiers in Genetics</i> , 2014, 5, 288.	1.1	130
62	Controlling variation in the comet assay. <i>Frontiers in Genetics</i> , 2014, 5, 359.	1.1	83
63	Methods for Measuring DNA Repair: Introduction and Cellular Repair. <i>Methods in Pharmacology and Toxicology</i> , 2014, , 365-376.	0.1	2
64	Base excision repair capacity in chronic renal failure patients undergoing hemodialysis treatment. <i>Cell Biochemistry and Function</i> , 2014, 32, 177-182.	1.4	20
65	A Standardized Protocol for the In Vitro Comet-Based DNA Repair Assay. <i>Methods in Pharmacology and Toxicology</i> , 2014, , 377-395.	0.1	3
66	Variation of DNA damage levels in peripheral blood mononuclear cells isolated in different laboratories. <i>Mutagenesis</i> , 2014, 29, 241-249.	1.0	30
67	Donor cornea transfer from Optisol GS to organ culture storage: a two-step procedure to increase donor tissue lifespan. <i>Acta Ophthalmologica</i> , 2013, 91, 219-225.	0.6	22
68	DNA-repair measurements by use of the modified comet assay: An inter-laboratory comparison within the European Comet Assay Validation Group (ECVAG). <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2013, 757, 60-67.	0.9	37
69	Novel quinoxaline 1,4-di-N-oxide derivatives as new potential antichagasic agents. <i>European Journal of Medicinal Chemistry</i> , 2013, 66, 324-334.	2.6	44
70	A comparative performance test of standard, medium- and high-throughput comet assays. <i>Toxicology in Vitro</i> , 2013, 27, 768-773.	1.1	58
71	An ECVAG inter-laboratory validation study of the comet assay: inter-laboratory and intra-laboratory variations of DNA strand breaks and FPG-sensitive sites in human mononuclear cells. <i>Mutagenesis</i> , 2013, 28, 279-286.	1.0	78
72	Measurement of DNA base and nucleotide excision repair activities in mammalian cells and tissues using the comet assay – A methodological overview. <i>DNA Repair</i> , 2013, 12, 1007-1010.	1.3	40

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73	The comet assay, DNA damage, DNA repair and cytotoxicity: hedgehogs are not always dead. <i>Mutagenesis</i> , 2013, 28, 427-432.	1.0	124
74	DNA damage in lens epithelium of cataract patients <i>in vivo</i> and <i>ex vivo</i> . <i>Acta Ophthalmologica</i> , 2013, 91, 652-656.	0.6	41
75	Novel formats for the comet assay. <i>Toxicology Letters</i> , 2013, 221, S189.	0.4	0
76	The essential comet assay: a comprehensive guide to measuring DNA damage and repair. <i>Archives of Toxicology</i> , 2013, 87, 949-968.	1.9	379
77	Enhancing the sensitivity of the comet assay as a genotoxicity test, by combining it with bacterial repair enzyme FPG. <i>Mutagenesis</i> , 2013, 28, 271-277.	1.0	74
78	Vitamin C in Cultured Human (HeLa) Cells: Lack of Effect on DNA Protection and Repair. <i>Nutrients</i> , 2013, 5, 1200-1217.	1.7	18
79	Inter-laboratory variation in DNA damage using a standard comet assay protocol. <i>Mutagenesis</i> , 2012, 27, 665-672.	1.0	79
80	DNA repair as a biomarker in human biomonitoring studies; further applications of the comet assay. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2012, 736, 122-129.	0.4	97
81	Single-Cell Gel Electrophoresis Combined with Lesion-Specific Enzymes to Measure Oxidative Damage to DNA. <i>Methods in Cell Biology</i> , 2012, 112, 69-92.	0.5	28
82	Effects of micronutrients on DNA repair. <i>European Journal of Nutrition</i> , 2012, 51, 261-279.	1.8	63
83	Carotenoids and DNA damage. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2012, 733, 4-13.	0.4	55
84	The influence of scoring method on variability in results obtained with the comet assay. <i>Mutagenesis</i> , 2011, 26, 393-399.	1.0	95
85	Ochratoxin A reduces aflatoxin B1 induced DNA damage detected by the comet assay in Hep G2 cells. <i>Food and Chemical Toxicology</i> , 2011, 49, 2883-2889.	1.8	57
86	Towards a more reliable comet assay: Optimising agarose concentration, unwinding time and electrophoresis conditions. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2011, 724, 41-45.	0.9	106
87	DNA Repair Measured by the Comet Assay. , 2011, , .		7
88	The influence of sterilization with EmbioJet® Microwave Flow Pasteurizer on composition and bioactivity of aronia and blue-berried honeysuckle juices. <i>Journal of Food Composition and Analysis</i> , 2011, 24, 880-888.	1.9	37
89	Both base excision repair and nucleotide excision repair in humans are influenced by nutritional factors. <i>Cell Biochemistry and Function</i> , 2011, 29, 36-42.	1.4	30
90	An ECVAG trial on assessment of oxidative damage to DNA measured by the comet assay. <i>Mutagenesis</i> , 2010, 25, 125-132.	1.0	99

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91	The full-length isoform of the mouse pleckstrin homology domain-interacting protein (PHIP) is required for postnatal growth. <i>FEBS Letters</i> , 2010, 584, 4121-4127.	1.3	17
92	Variation in the measurement of DNA damage by comet assay measured by the ECVAG inter-laboratory validation trial. <i>Mutagenesis</i> , 2010, 25, 113-123.	1.0	155
93	Twelve-gel slide format optimised for comet assay and fluorescent in situ hybridisation. <i>Toxicology Letters</i> , 2010, 195, 31-34.	0.4	87
94	Polyphenolic Compounds from <i>Salvia</i> Species Protect Cellular DNA from Oxidation and Stimulate DNA Repair in Cultured Human Cells. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 7465-7471.	2.4	68
95	In vitro comet assay for DNA repair: a warning concerning application to cultured cells. <i>Mutagenesis</i> , 2009, 24, 379-381.	1.0	23
96	Antiproliferative effect of flavomannin-6,6-dimethylether from <i>Tricholoma equestre</i> on Caco-2 cells. <i>Toxicology</i> , 2009, 264, 192-197.	2.0	10
97	Effect of processed and red meat on endogenous nitrosation and DNA damage. <i>Carcinogenesis</i> , 2009, 30, 1402-1407.	1.3	125
98	DNA oxidation: Investigating its key role in environmental mutagenesis with the comet assay. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2009, 674, 101-108.	0.9	161
99	Detection of Oxidised DNA Using DNA Repair Enzymes. <i>Issues in Toxicology</i> , 2009, , 57-78.	0.2	2
100	Antitumoral Effect of Phenazine $5,10$ -Dioxide Derivatives on Caco-2 Cells. <i>Chemical Research in Toxicology</i> , 2008, 21, 1578-1585.	1.7	25
101	The comet assay: topical issues. <i>Mutagenesis</i> , 2008, 23, 143-151.	1.0	811
102	The carotenoid $\beta$ -cryptoxanthin stimulates the repair of DNA oxidation damage in addition to acting as an antioxidant in human cells. <i>Carcinogenesis</i> , 2008, 30, 308-314.	1.3	133
103	Comparative Acute Systemic Toxicity of Several Quinoxaline 1,4-Di-N-oxides in Wistar Rats. <i>Arzneimittelforschung</i> , 2007, 57, 339-346.	0.5	0
104	Synthetic chalcones, flavanones, and flavones as antitumoral agents: Biological evaluation and structure-activity relationships. <i>Bioorganic and Medicinal Chemistry</i> , 2007, 15, 3356-3367.	1.4	260
105	A quinoxaline 1,4-di-N-oxide derivative induces DNA oxidative damage not attenuated by vitamin C and E treatment. <i>Chemico-Biological Interactions</i> , 2007, 168, 95-105.	1.7	47
106	In vitro gene expression data supporting a DNA non-reactive genotoxic mechanism for ochratoxin A. <i>Toxicology and Applied Pharmacology</i> , 2007, 220, 216-224.	1.3	55
107	The role of oxidative stress in zearalenone-mediated toxicity in Hep G2 cells: Oxidative DNA damage, glutathione depletion and stress proteins induction. <i>Toxicology</i> , 2007, 232, 294-302.	2.0	164
108	Anticancer effect of a new benzophenanthridine isolated from <i>Zanthoxylum madagascariense</i> (Rutaceline). <i>In Vivo</i> , 2007, 21, 417-22.	0.6	12

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109	Phenazine 5,10-Dioxide Derivatives as Hypoxic Selective Cytotoxins: Part II. Structure-Activity Relationship Studies. <i>Medicinal Chemistry</i> , 2006, 2, 511-521.	0.7	18
110	Design and evaluation of $\text{Co}^{3+}$ mixed ligand oxorhenium and oxotechnetium complexes bearing a nitroaromatic group with potential application in nuclear medicine oncology. <i>European Journal of Medicinal Chemistry</i> , 2006, 41, 1144-1152.	2.6	27
111	Indazole N-oxide derivatives as antiprotozoal agents: Synthesis, biological evaluation and mechanism of action studies. <i>Bioorganic and Medicinal Chemistry</i> , 2006, 14, 3467-3480.	1.4	78
112	Selective hypoxia-cytotoxins based on vanadyl complexes with 3-aminoquinoxaline-2-carbonitrile-N1,N4-dioxide derivatives. <i>Journal of Inorganic Biochemistry</i> , 2006, 100, 1358-1367.	1.5	22
113	Oxidative DNA damage induced by Ochratoxin A in the HK-2 human kidney cell line: evidence of the relationship with cytotoxicity. <i>Mutagenesis</i> , 2006, 22, 35-42.	1.0	95
114	Vanadium(V) complexes with salicylaldehyde semicarbazone derivatives bearing in vitro anti-tumor activity toward kidney tumor cells (TK-10): crystal structure of $[\text{VO}_2(5\text{-bromosalicylaldehyde})_2] \cdot 2\text{H}_2\text{O}$ . <i>Journal of Inorganic Biochemistry</i> , 2006, 90, 107-115.	1.7	50
115	Synthesis and biological properties of new 5-nitroindazole derivatives. <i>Bioorganic and Medicinal Chemistry</i> , 2005, 13, 3197-3207.	1.4	63
116	Novel Cu(II) quinoxaline N1,N4-dioxide complexes as selective hypoxic cytotoxins. <i>European Journal of Medicinal Chemistry</i> , 2005, 40, 473-480.	2.6	58
117	Selective Toxicity of a Quinoxaline 1,4-Di-N-oxide Derivative in Human Tumour Cell Lines. <i>Arzneimittelforschung</i> , 2005, 55, 177-182.	0.5	2
118	DNA damage induced by a quinoxaline 1,4-di-N-oxide derivative (hypoxic selective agent) in Caco-2 cells evaluated by the comet assay. <i>Mutagenesis</i> , 2005, 20, 165-171.	1.0	20
119	Phenazine 5,10-Dioxide Derivatives as Hypoxic Selective Cytotoxins. <i>Journal of Medicinal Chemistry</i> , 2005, 48, 21-23.	2.9	52
120	1, 2, 4-Triazine N-oxide Derivatives: Studies as Potential Hypoxic Cytotoxins. Part III. <i>Archiv Der Pharmazie</i> , 2004, 337, 271-280.	2.1	19
121	Ruthenium (II) nitrofurylsemicarbazone complexes: new DNA binding agents. <i>European Journal of Medicinal Chemistry</i> , 2004, 39, 377-382.	2.6	32
122	A comparative study on the gastroduodenal tolerance of different antianaemic preparations. <i>Human and Experimental Toxicology</i> , 2003, 22, 137-141.	1.1	12