

# Carmen Sanmartín

## List of Publications by Year in descending order

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114  
papers

3,226  
citations

136885

32  
h-index

182361

51  
g-index

118  
all docs

118  
docs citations

118  
times ranked

3746  
citing authors

#	ARTICLE	IF	CITATIONS
1	Selenium Compounds, Apoptosis and Other Types of Cell Death: An Overview for Cancer Therapy. <i>International Journal of Molecular Sciences</i> , 2012, 13, 9649-9672.	1.8	215
2	Biological profile of new apoptotic agents based on 2,4-pyrido[2,3-d]pyrimidine derivatives. <i>Bioorganic and Medicinal Chemistry</i> , 2007, 15, 1659-1669.	1.4	141
3	Selenocyanates and diselenides: A new class of potent antileishmanial agents. <i>European Journal of Medicinal Chemistry</i> , 2011, 46, 3315-3323.	2.6	108
4	Design, Synthesis, and Biological Evaluation of Phosphoramidate Derivatives as Urease Inhibitors. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 3721-3731.	2.4	103
5	Development and Therapeutic Potential of Selenazo Compounds. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 1473-1489.	2.9	86
6	Selenium and Clinical Trials: New Therapeutic Evidence for Multiple Diseases. <i>Current Medicinal Chemistry</i> , 2011, 18, 4635-4650.	1.2	85
7	Synthesis and antiproliferative activity of novel selenoester derivatives. <i>European Journal of Medicinal Chemistry</i> , 2014, 73, 153-166.	2.6	85
8	Antioxidant-Prooxidant Properties of a New Organoselenium Compound Library. <i>Molecules</i> , 2010, 15, 7292-7312.	1.7	83
9	Selenium Compounds and Apoptotic Modulation: A New Perspective in Cancer Therapy. <i>Mini-Reviews in Medicinal Chemistry</i> , 2008, 8, 1020-1031.	1.1	79
10	2-Arylamino-4-oxo-3,4-dihydropyrido[2,3-d]pyrimidines: synthesis and diuretic activity. <i>European Journal of Medicinal Chemistry</i> , 1989, 24, 209-216.	2.6	72
11	Thermosensitive hydrogels of poly(methyl vinyl ether-co-maleic anhydride) " Pluronic® F127 copolymers for controlled protein release. <i>International Journal of Pharmaceutics</i> , 2014, 459, 1-9.	2.6	71
12	Sulfur and selenium derivatives of quinazoline and pyrido[2,3-d]pyrimidine: Synthesis and study of their potential cytotoxic activity in vitro. <i>European Journal of Medicinal Chemistry</i> , 2012, 47, 283-298.	2.6	70
13	Novel Heteroaryl Selenocyanates and Diselenides as Potent Antileishmanial Agents. <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 3802-3812.	1.4	66
14	Organoselenium Compounds as Novel Adjuvants of Chemotherapy Drugs " A Promising Approach to Fight Cancer Drug Resistance. <i>Molecules</i> , 2019, 24, 336.	1.7	65
15	Selenoesters and selenoanhydrides as novel multidrug resistance reversing agents: A confirmation study in a colon cancer MDR cell line. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017, 27, 797-802.	1.0	60
16	Synthesis and <i>in vitro</i> Anticancer Activities of some Selenadiazole Derivatives. <i>Archiv Der Pharmazie</i> , 2010, 343, 680-691.	2.1	57
17	Identification of selenocompounds with promising properties to reverse cancer multidrug resistance. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 2821-2824.	1.0	53
18	Synthesis and antiproliferative activity of novel symmetrical alkylthio- and alkylseleno-imidocarbamates. <i>European Journal of Medicinal Chemistry</i> , 2011, 46, 265-274.	2.6	52

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19	Novel potent organoselenium compounds as cytotoxic agents in prostate cancer cells. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007, 17, 6853-6859.	1.0	50
20	Synthesis and Pharmacological Screening of Several Aroyl and Heteroaroyl Selenylacetic Acid Derivatives as Cytotoxic and Antiproliferative Agents. <i>Molecules</i> , 2009, 14, 3313-3338.	1.7	50
21	Assessment of $\beta$ -lapachone loaded in lecithin-chitosan nanoparticles for the topical treatment of cutaneous leishmaniasis in <i>L. major</i> infected BALB/c mice. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015, 11, 2003-2012.	1.7	49
22	New insights into the structural requirements for pro-apoptotic agents based on 2,4-diaminoquinazoline, 2,4-diaminopyrido[2,3-d]pyrimidine and 2,4-diaminopyrimidine derivatives. <i>European Journal of Medicinal Chemistry</i> , 2011, 46, 3887-3899.	2.6	47
23	Novel hybrid selenosulfonamides as potent antileishmanial agents. <i>European Journal of Medicinal Chemistry</i> , 2014, 74, 116-123.	2.6	45
24	Synthesis and biological evaluation of new symmetrical derivatives as cytotoxic agents and apoptosis inducers. <i>Bioorganic and Medicinal Chemistry</i> , 2005, 13, 2031-2044.	1.4	42
25	Antileishmanial activity of imidothiocarbamates and imidoselenocarbamates. <i>Parasitology Research</i> , 2011, 108, 233-239.	0.6	42
26	Innovative Lead Compounds and Formulation Strategies As Newer Kinetoplastid Therapies. <i>Current Medicinal Chemistry</i> , 2012, 19, 4259-4288.	1.2	42
27	The Quinoline Imidoselenocarbamate EI201 Blocks the AKT/mTOR Pathway and Targets Cancer Stem Cells Leading to a Strong Antitumor Activity. <i>Current Medicinal Chemistry</i> , 2012, 19, 3031-3043.	1.2	41
28	Novel seleno- and thio-urea derivatives with potent <i>in vitro</i> activities against several cancer cell lines. <i>European Journal of Medicinal Chemistry</i> , 2016, 113, 134-144.	2.6	41
29	Chalcogen containing heterocyclic scaffolds: New hybrids with antitumoral activity. <i>European Journal of Medicinal Chemistry</i> , 2016, 123, 407-418.	2.6	40
30	Discovery of new organoselenium compounds as antileishmanial agents. <i>Bioorganic Chemistry</i> , 2019, 86, 339-345.	2.0	39
31	Structural Characteristics of Phosphoramidate Derivatives as Urease Inhibitors. Requirements for Activity. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 8451-8460.	2.4	38
32	Nanoparticles as multifunctional devices for the topical treatment of cutaneous leishmaniasis. <i>Expert Opinion on Drug Delivery</i> , 2014, 11, 579-597.	2.4	38
33	Novel selenadiazole derivatives as selective antitumor and radical scavenging agents. <i>European Journal of Medicinal Chemistry</i> , 2018, 157, 14-27.	2.6	32
34	Cells, Materials, and Fabrication Processes for Cardiac Tissue Engineering. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 955.	2.0	32
35	Berberine-Loaded Liposomes for the Treatment of <i>Leishmania infantum</i> -Infected BALB/c Mice. <i>Pharmaceutics</i> , 2020, 12, 858.	2.0	31
36	Synthesis and Leishmanicidal Activity of Novel Urea, Thiourea, and Selenourea Derivatives of Diselenides. <i>Antimicrobial Agents and Chemotherapy</i> , 2019, 63, .	1.4	30

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37	Antiviral, Antimicrobial and Antibiofilm Activity of Selenoesters and Selenoanhydrides. <i>Molecules</i> , 2019, 24, 4264.	1.7	30
38	Topical treatment of <i>L. major</i> infected BALB/c mice with a novel diselenide chitosan hydrogel formulation. <i>European Journal of Pharmaceutical Sciences</i> , 2014, 62, 309-316.	1.9	29
39	In vitro radical scavenging and cytotoxic activities of novel hybrid selenocarbamates. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 1716-1727.	1.4	29
40	Leishmanicidal Activities of Novel Methylseleno-Imidocarbamates. <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 5705-5713.	1.4	28
41	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
42	Mycorrhizal inoculation affected growth, mineral composition, proteins and sugars in lettuces biofortified with organic or inorganic selenocompounds. <i>Scientia Horticulturae</i> , 2014, 180, 40-51.	1.7	27
43	Library of Seleno-Compounds as Novel Agents against <i>Leishmania</i> Species. <i>Antimicrobial Agents and Chemotherapy</i> , 2017, 61, .	1.4	27
44	Kinase Regulation by Sulfur and Selenium Containing Compounds. <i>Current Cancer Drug Targets</i> , 2011, 11, 496-523.	0.8	26
45	Efficient targeted gene delivery by a novel PAMAM/DNA dendriplex coated with hyaluronic acid. <i>Nanomedicine</i> , 2014, 9, 2787-2801.	1.7	26
46	Selenocompounds as Novel Antibacterial Agents and Bacterial Efflux Pump Inhibitors. <i>Molecules</i> , 2019, 24, 1487.	1.7	26
47	Novel N,N'-Disubstituted Acylselenoureas as Potential Antioxidant and Cytotoxic Agents. <i>Antioxidants</i> , 2020, 9, 55.	2.2	25
48	NSAIDs: Old Acquaintance in the Pipeline for Cancer Treatment and Prevention—Structural Modulation, Mechanisms of Action, and Bright Future. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 16380-16421.	2.9	25
49	New symmetrical quinazoline derivatives selectively induce apoptosis in human cancer cells. <i>Cancer Biology and Therapy</i> , 2006, 5, 850-859.	1.5	23
50	Skin vaccination using microneedles coated with a plasmid DNA cocktail encoding nucleosomal histones of <i>Leishmania</i> spp.. <i>International Journal of Pharmaceutics</i> , 2017, 533, 236-244.	2.6	23
51	Combined Acylselenourea-Diselenide Structures: New Potent and Selective Antitumoral Agents as Autophagy Activators. <i>ACS Medicinal Chemistry Letters</i> , 2018, 9, 306-311.	1.3	23
52	Thermal stability and decomposition of sulphur and selenium compounds. <i>Journal of Thermal Analysis and Calorimetry</i> , 2009, 98, 559-566.	2.0	21
53	Novel Methylselenoesters Induce Programed Cell Death via Entosis in Pancreatic Cancer Cells. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2849.	1.8	21
54	Combination of paromomycin plus human anti-TNF- $\alpha$ antibodies to control the local inflammatory response in BALB/ mice with cutaneous leishmaniasis lesions. <i>Journal of Dermatological Science</i> , 2018, 92, 78-88.	1.0	21

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55	Selenium fertilization and mycorrhizal technology may interfere in enhancing bioactive compounds in edible tissues of lettuces. <i>Scientia Horticulturae</i> , 2015, 195, 163-172.	1.7	20
56	Bisacylimidoselenocarbamates Cause G2/M Arrest Associated with the Modulation of CDK1 and Chk2 in Human Breast Cancer MCF-7 Cells. <i>Current Medicinal Chemistry</i> , 2013, 20, 1609-1619.	1.2	20
57	A diphenyldiselenide derivative induces autophagy <i>via</i> JNK in HTB-54 lung cancer cells. <i>Journal of Cellular and Molecular Medicine</i> , 2018, 22, 289-301.	1.6	19
58	Selenoesters and Selenoanhydrides as Novel Agents Against Resistant Breast Cancer. <i>Anticancer Research</i> , 2019, 39, 3777-3783.	0.5	18
59	Novel Library of Selenocompounds as Kinase Modulators. <i>Molecules</i> , 2011, 16, 6349-6364.	1.7	17
60	Study of polymorphism of organosulfur and organoselenium compounds. <i>Journal of Thermal Analysis and Calorimetry</i> , 2011, 105, 1007-1013.	2.0	17
61	Synthesis and antiproliferative activity of novel methylselenocarbamates. <i>European Journal of Medicinal Chemistry</i> , 2014, 83, 674-684.	2.6	17
62	Novel Methylselenoesters as Antiproliferative Agents. <i>Molecules</i> , 2017, 22, 1288.	1.7	16
63	Molecular Symmetry: A Structural Property Frequently Present in New Cytotoxic and Proapoptotic Drugs. <i>Mini-Reviews in Medicinal Chemistry</i> , 2006, 6, 639-650.	1.1	15
64	A dihydroselenoquinazoline inhibits S6 ribosomal protein signalling, induces apoptosis and inhibits autophagy in MCF-7 cells. <i>European Journal of Pharmaceutical Sciences</i> , 2014, 63, 87-95.	1.9	15
65	Mycorrhizal inoculation and/or selenium application affect post-harvest performance of snapdragon flowers. <i>Plant Growth Regulation</i> , 2016, 78, 389-400.	1.8	14
66	Selenium Derivatives as Promising Therapy for Chagas Disease: <i>In Vitro</i> and <i>In Vivo</i> Studies. <i>ACS Infectious Diseases</i> , 2021, 7, 1727-1738.	1.8	13
67	Synthesis and Biological Evaluation of 2,4,6-Functionalized Derivatives of Pyrido[2,3- <i>d</i> ]pyrimidines as Cytotoxic Agents and Apoptosis Inducers. <i>Archiv Der Pharmazie</i> , 2008, 341, 28-41.	2.1	12
68	Evaluation of Skin Permeation and Retention of Topical Dapsone in Murine Cutaneous Leishmaniasis Lesions. <i>Pharmaceutics</i> , 2019, 11, 607.	2.0	12
69	Pre-clinical evidences of the antileishmanial effects of diselenides and selenocyanates. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2020, 30, 127371.	1.0	12
70	3,5-Dimethyl-4-isoxazolyl selenocyanate as promising agent for the treatment of Leishmania infantum-infected mice. <i>Acta Tropica</i> , 2021, 215, 105801.	0.9	12
71	Synthesis of 6-amino-2-aryla-1,2-dihydro-3-H-pyrido[2,3- <i>d</i> ]pyrimidin-4-one derivatives. <i>Journal of Heterocyclic Chemistry</i> , 1992, 29, 1545-1549.	1.4	11
72	Structural characteristics of novel symmetrical diaryl derivatives with nitrogenated functions. Requirements for cytotoxic activity. <i>Bioorganic and Medicinal Chemistry</i> , 2006, 14, 1942-1948.	1.4	11

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73	<i>In vitro</i> antileishmanial activity and iron superoxide dismutase inhibition of arylamine Mannich base derivatives. <i>Parasitology</i> , 2017, 144, 1783-1790.	0.7	11
74	Identification of a Novel Quinoxaline-Isoselenourea Targeting the STAT3 Pathway as a Potential Melanoma Therapeutic. <i>International Journal of Molecular Sciences</i> , 2019, 20, 521.	1.8	11
75	Pharmaceutical and Safety Profile Evaluation of Novel Selenocompounds with Noteworthy Anticancer Activity. <i>Pharmaceutics</i> , 2022, 14, 367.	2.0	11
76	Novel structural insights for imidoselenocarbamates with antitumoral activity related to their ability to generate methylselenol. <i>Bioorganic and Medicinal Chemistry</i> , 2012, 20, 5110-5116.	1.4	10
77	Organoseleno cytostatic derivatives: Autophagic cell death with AMPK and JNK activation. <i>European Journal of Medicinal Chemistry</i> , 2019, 175, 234-246.	2.6	10
78	Library of Selenocyanate and Diselenide Derivatives as In Vivo Antichagasic Compounds Targeting <i>Trypanosoma cruzi</i> Mitochondrion. <i>Pharmaceutics</i> , 2021, 14, 419.	1.7	10
79	Activity enhancement of selective antitumoral selenodiazoles formulated with poloxamine micelles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 170, 463-469.	2.5	9
80	Synthesis of novel organic selenium compounds and speciation of their metabolites in biofortified kale sprouts. <i>Microchemical Journal</i> , 2022, 172, 106962.	2.3	9
81	Oral Efficacy of a Diselenide Compound Loaded in Nanostructured Lipid Carriers in a Murine Model of Visceral Leishmaniasis. <i>ACS Infectious Diseases</i> , 2021, 7, 3197-3209.	1.8	9
82	Symmetrical Derivatives with Nitrogenated Functions as Cytotoxic Agents and Apoptosis Inducers. <i>Letters in Drug Design and Discovery</i> , 2005, 2, 341-354.	0.4	8
83	Synthesis and Biological Evaluation of Heteroaryldiamides and Heteroaryldiamines as Cytotoxic Agents, Apoptosis Inducers and Caspase-3 Activators. <i>Archiv Der Pharmazie</i> , 2006, 339, 182-192.	2.1	8
84	Structure- and cell-specific effects of imidoselenocarbamates on selenoprotein expression and activity in liver cells in culture. <i>Metallomics</i> , 2012, 4, 1297.	1.0	8
85	Novel N,N'-Disubstituted Selenoureas as Potential Antioxidant and Cytotoxic Agents. <i>Antioxidants</i> , 2021, 10, 777.	2.2	8
86	Thermal stability of selenium, sulfur and nitrogen analogous phthalazine derivatives. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013, 111, 605-610.	2.0	7
87	Molecular descriptors calculation as a tool in the analysis of the antileishmanial activity achieved by two series of diselenide derivatives. An insight into its potential action mechanism. <i>Journal of Molecular Graphics and Modelling</i> , 2015, 60, 63-78.	1.3	7
88	Thermal stability and decomposition of urea, thiourea and selenourea analogous diselenide derivatives. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 127, 1663-1674.	2.0	7
89	New Amides Containing Selenium as Potent Leishmanicidal Agents Targeting Trypanothione Reductase. <i>Antimicrobial Agents and Chemotherapy</i> , 2020, 65, .	1.4	7
90	Novel quinazoline and pyrido[2,3-d]pyrimidine derivatives and their hydroselenite salts as antitumoral agents. <i>Arkivoc</i> , 2014, 2014, 187-206.	0.3	6

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91	Structural variations on antitumour agents derived from bisacylimidoselenocarbamate. A proposal for structure-activity relationships based on the analysis of conformational behaviour. <i>European Journal of Medicinal Chemistry</i> , 2013, 66, 489-498.	2.6	5
92	Methods of selecting combination therapy for colorectal cancer patients: a patent evaluation of US20160025730A1. <i>Expert Opinion on Therapeutic Patents</i> , 2017, 27, 527-538.	2.4	5
93	Phenothiazines and Selenocompounds: A Potential Novel Combination Therapy of Multidrug Resistant Cancer. <i>Anticancer Research</i> , 2020, 40, 4921-4928.	0.5	5
94	New Formulation of a Methylseleno-Aspirin Analog with Anticancer Activity Towards Colon Cancer. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9017.	1.8	5
95	New Amides and Phosphoramidates Containing Selenium: Studies on Their Cytotoxicity and Antioxidant Activities in Breast Cancer. <i>Antioxidants</i> , 2021, 10, 590.	2.2	5
96	New Phosphoramidates Containing Selenium as Leishmanicidal Agents. <i>Antimicrobial Agents and Chemotherapy</i> , 2021, 65, e0059021.	1.4	5
97	Synthesis, characterization, crystal structure and cytotoxicity of 2,4-bis(selenomethyl)quinazoline. <i>Structural Chemistry</i> , 2011, 22, 1233-1240.	1.0	4
98	Strong induction of iodothyronine deiodinases by chemotherapeutic selenocompounds. <i>Metallomics</i> , 2015, 7, 347-354.	1.0	4
99	A new polyamine derivative, a structural analog of spermine, with in vivo activity as an inhibitor of ethanol appetite. <i>Bioorganic and Medicinal Chemistry</i> , 2005, 13, 4375-4382.	1.4	3
100	Topological and quantum molecular descriptors as effective tools for analyzing cytotoxic activity achieved by a series of (diselanediyldibenzene-4,1-diylndide)biscarbamate derivatives. <i>Journal of Molecular Graphics and Modelling</i> , 2017, 73, 62-73.	1.3	3
101	Antitumoural Sulphur and Selenium Heteroaryl Compounds: Thermal Characterization and Stability Evaluation. <i>Molecules</i> , 2017, 22, 1314.	1.7	3
102	Methylselenol release as a cytotoxic tool: a study of the mechanism of the activity achieved by two series of methylselenocarbamate derivatives. <i>Metallomics</i> , 2018, 10, 1128-1140.	1.0	3
103	Selenium Entities: Promising Scaffolds for the Treatment of Cancer and Leishmania. <i>Current Organic Synthesis</i> , 2018, 14, .	0.7	3
104	Potential biomedical reuse of vegetative residuals from mycorrhized grapevines subjected to warming. <i>Archives of Agronomy and Soil Science</i> , 2019, 65, 1341-1353.	1.3	2
105	New Experimental Conditions for Diels-Alder and Friedel-Crafts Alkylation Reactions with Thiophene: A New Selenocyanate with Potent Activity against Cancer. <i>Molecules</i> , 2022, 27, 982.	1.7	2
106	Thermal analysis of novel selenocarbamates. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 123, 1951-1962.	2.0	1
107	Changes in the nanoparticle uptake and distribution caused by an intramacrophagic parasitic infection. <i>Nanoscale</i> , 2021, 13, 17486-17503.	2.8	1
108	Thermal characterization and stability evaluation of leishmanicidal selenocyanate and diselenide derivatives. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 3127-3139.	2.0	1

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109	Interaction of nucleoside derivatives with the human Na <sup>+</sup> /nucleoside cotransporters CNT1 and CNT3. <i>FASEB Journal</i> , 2008, 22, 133-133.	0.2	1
110	New Selenoderivatives as Antitumoral Agents. , 2011, , .		0
111	Genspezifische Regulation von Selenoproteinen durch Methyl-Imidoselenocarbamate mit Antitumoraktivität. <i>Perspectives in Science</i> , 2015, 3, 48-49.	0.6	0
112	Vilsmeier reagent, NaHSe and diclofenac acid chloride: one-pot synthesis of a novel selenoindolinone with potent anticancer activity. <i>RSC Advances</i> , 2020, 10, 38404-38408.	1.7	0
113	Abstract 1166: Identification of a novel quinoxaline-isoselenourea targeting STAT3 pathway as a potential melanoma therapeutic. , 2017, , .		0
114	Effect of topical berberine in murine cutaneous leishmaniasis lesions. <i>Journal of Antimicrobial Chemotherapy</i> , 2022, , .	1.3	0