

Carmen Sanmartn

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109
papers

2,412
citations

30
h-index

45
g-index

118
ext. papers

2,846
ext. citations

4.7
avg, IF

4.91
L-index

#	Paper	IF	Citations
109	Selenium compounds, apoptosis and other types of cell death: an overview for cancer therapy. <i>International Journal of Molecular Sciences</i> , 2012 , 13, 9649-72	6.3	169
108	Biological profile of new apoptotic agents based on 2,4-pyrido[2,3-d]pyrimidine derivatives. <i>Bioorganic and Medicinal Chemistry</i> , 2007 , 15, 1659-69	3.4	132
107	Selenocyanates and diselenides: a new class of potent antileishmanial agents. <i>European Journal of Medicinal Chemistry</i> , 2011 , 46, 3315-23	6.8	88
106	Design, synthesis, and biological evaluation of phosphoramidate derivatives as urease inhibitors. <i>Journal of Agricultural and Food Chemistry</i> , 2008 , 56, 3721-31	5.7	87
105	Antioxidant-prooxidant properties of a new organoselenium compound library. <i>Molecules</i> , 2010 , 15, 7292-312	6.9	69
104	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	6.8	66
103	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	6.5	65
102	Selenium and clinical trials: new therapeutic evidence for multiple diseases. <i>Current Medicinal Chemistry</i> , 2011 , 18, 4635-50	4.3	64
101	Selenium compounds and apoptotic modulation: a new perspective in cancer therapy. <i>Mini-Reviews in Medicinal Chemistry</i> , 2008 , 8, 1020-31	3.2	64
100	Synthesis and antiproliferative activity of novel selenoester derivatives. <i>European Journal of Medicinal Chemistry</i> , 2014 , 73, 153-66	6.8	63
99	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, 283-98	6.8	60
98	Synthesis and antiproliferative activity of novel symmetrical alkylthio- and alkylseleno-imidocarbamates. <i>European Journal of Medicinal Chemistry</i> , 2011 , 46, 265-74	6.8	49
97	Synthesis and in vitro anticancer activities of some selenadiazole derivatives. <i>Archiv Der Pharmazie</i> , 2010 , 343, 680-91	4.3	49
96	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	2.9	45
95	Organoselenium Compounds as Novel Adjuvants of Chemotherapy Drugs-A Promising Approach to Fight Cancer Drug Resistance. <i>Molecules</i> , 2019 , 24,	4.8	44
94	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, 3887-99	6.8	43
93	Novel potent organoselenium compounds as cytotoxic agents in prostate cancer cells. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007 , 17, 6853-9	2.9	43

92	Identification of selenocompounds with promising properties to reverse cancer multidrug resistance. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016 , 26, 2821-2824	2.9	43
91	Antileishmanial activity of imidothiocarbamates and imidoselenocarbamates. <i>Parasitology Research</i> , 2011 , 108, 233-9	2.4	40
90	Assessment of Elapachone loaded in lecithin-chitosan nanoparticles for the topical treatment of cutaneous leishmaniasis in L. major infected BALB/c mice. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015 , 11, 2003-12	6	39
89	Novel hybrid selenosulfonamides as potent antileishmanial agents. <i>European Journal of Medicinal Chemistry</i> , 2014 , 74, 116-23	6.8	39
88	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, 3031-43	4.3	38
87	Novel Heteroaryl Selenocyanates and Diselenides as Potent Antileishmanial Agents. <i>Antimicrobial Agents and Chemotherapy</i> , 2016 , 60, 3802-12	5.9	38
86	Innovative lead compounds and formulation strategies as newer kinetoplastid therapies. <i>Current Medicinal Chemistry</i> , 2012 , 19, 4259-88	4.3	37
85	Synthesis and pharmacological screening of several aroyl and heteroaroyl selenylacetic acid derivatives as cytotoxic and antiproliferative agents. <i>Molecules</i> , 2009 , 14, 3313-38	4.8	37
84	Synthesis and biological evaluation of new symmetrical derivatives as cytotoxic agents and apoptosis inducers. <i>Bioorganic and Medicinal Chemistry</i> , 2005 , 13, 2031-44	3.4	37
83	Development and Therapeutic Potential of Selenazo Compounds. <i>Journal of Medicinal Chemistry</i> , 2020 , 63, 1473-1489	8.3	37
82	Structural characteristics of phosphoramidate derivatives as urease inhibitors. Requirements for activity. <i>Journal of Agricultural and Food Chemistry</i> , 2008 , 56, 8451-60	5.7	33
81	Nanoparticles as multifunctional devices for the topical treatment of cutaneous leishmaniasis. <i>Expert Opinion on Drug Delivery</i> , 2014 , 11, 579-97	8	32
80	Novel seleno- and thio-urea derivatives with potent in vitro activities against several cancer cell lines. <i>European Journal of Medicinal Chemistry</i> , 2016 , 113, 134-44	6.8	30
79	In vitro radical scavenging and cytotoxic activities of novel hybrid selenocarbamates. <i>Bioorganic and Medicinal Chemistry</i> , 2015 , 23, 1716-27	3.4	26
78	Chalcogen containing heterocyclic scaffolds: New hybrids with antitumoral activity. <i>European Journal of Medicinal Chemistry</i> , 2016 , 123, 407-418	6.8	26
77	Discovery of new organoselenium compounds as antileishmanial agents. <i>Bioorganic Chemistry</i> , 2019 , 86, 339-345	5.1	23
76	Topical treatment of L. major infected BALB/c mice with a novel diselenide chitosan hydrogel formulation. <i>European Journal of Pharmaceutical Sciences</i> , 2014 , 62, 309-16	5.1	23
75	Efficient targeted gene delivery by a novel PAMAM/DNA dendriplex coated with hyaluronic acid. <i>Nanomedicine</i> , 2014 , 9, 2787-801	5.6	23

74	Kinase regulation by sulfur and selenium containing compounds. <i>Current Cancer Drug Targets</i> , 2011 , 11, 496-523	2.8	23
73	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	6.5	21
72	Leishmanicidal activities of novel methylseleno-imidocarbamates. <i>Antimicrobial Agents and Chemotherapy</i> , 2015 , 59, 5705-13	5.9	21
71	New symmetrical quinazoline derivatives selectively induce apoptosis in human cancer cells. <i>Cancer Biology and Therapy</i> , 2006 , 5, 850-9	4.6	21
70	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	4.1	20
69	Library of Seleno-Compounds as Novel Agents against <i>Leishmania</i> Species. <i>Antimicrobial Agents and Chemotherapy</i> , 2017 , 61,	5.9	19
68	Selenocompounds as Novel Antibacterial Agents and Bacterial Efflux Pump Inhibitors. <i>Molecules</i> , 2019 , 24,	4.8	18
67	Thermal stability and decomposition of sulphur and selenium compounds. <i>Journal of Thermal Analysis and Calorimetry</i> , 2009 , 98, 559-566	4.1	18
66	Antiviral, Antimicrobial and Antibiofilm Activity of Selenoesters and Selenoanhydrides. <i>Molecules</i> , 2019 , 24,	4.8	18
65	Tellurides Bearing Sulfonamides as Novel Inhibitors of Leishmanial Carbonic Anhydrase with Potent Antileishmanial Activity. <i>Journal of Medicinal Chemistry</i> , 2020 , 63, 4306-4314	8.3	17
64	Novel selenadiazole derivatives as selective antitumor and radical scavenging agents. <i>European Journal of Medicinal Chemistry</i> , 2018 , 157, 14-27	6.8	17
63	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, 1609-19	4.3	17
62	Synthesis and Leishmanicidal Activity of Novel Urea, Thiourea, and Selenourea Derivatives of Diselenides. <i>Antimicrobial Agents and Chemotherapy</i> , 2019 , 63,	5.9	16
61	Synthesis and antiproliferative activity of novel methylselenocarbamates. <i>European Journal of Medicinal Chemistry</i> , 2014 , 83, 674-84	6.8	16
60	Novel library of selenocompounds as kinase modulators. <i>Molecules</i> , 2011 , 16, 6349-64	4.8	16
59	Study of polymorphism of organosulfur and organoselenium compounds. <i>Journal of Thermal Analysis and Calorimetry</i> , 2011 , 105, 1007-1013	4.1	15
58	Molecular symmetry: a structural property frequently present in new cytotoxic and proapoptotic drugs. <i>Mini-Reviews in Medicinal Chemistry</i> , 2006 , 6, 639-50	3.2	14
57	A diphenyldiselenide derivative induces autophagy via JNK in HTB-54 lung cancer cells. <i>Journal of Cellular and Molecular Medicine</i> , 2018 , 22, 289-301	5.6	13

56	A dihydro-selenoquinazoline 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	5.1	13
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	4.1	12
54	Combined Acylselenourea-Diselenide Structures: New Potent and Selective Antitumoral Agents as Autophagy Activators. <i>ACS Medicinal Chemistry Letters</i> , 2018 , 9, 306-311	4.3	12
53	Selenoesters and Selenoanhydrides as Novel Agents Against Resistant Breast Cancer. <i>Anticancer Research</i> , 2019 , 39, 3777-3783	2.3	12
52	Novel Methylselenoesters as Antiproliferative Agents. <i>Molecules</i> , 2017 , 22,	4.8	11
51	Cells, Materials, and Fabrication Processes for Cardiac Tissue Engineering. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 955	5.8	11
50	Combination of paromomycin plus human anti-TNF- α antibodies to control the local inflammatory response in BALB/ mice with cutaneous leishmaniasis lesions. <i>Journal of Dermatological Science</i> , 2018 , 92, 78-88	4.3	10
49	Novel structural insights for imidoselenocarbamates with antitumoral activity related to their ability to generate methylselenol. <i>Bioorganic and Medicinal Chemistry</i> , 2012 , 20, 5110-6	3.4	10
48	Synthesis and biological evaluation of 2,4,6-functionalized derivatives of pyrido[2,3-d]pyrimidines as cytotoxic agents and apoptosis inducers. <i>Archiv Der Pharmazie</i> , 2008 , 341, 28-41	4.3	10
47	Structural characteristics of novel symmetrical diaryl derivatives with nitrogenated functions. Requirements for cytotoxic activity. <i>Bioorganic and Medicinal Chemistry</i> , 2006 , 14, 1942-8	3.4	10
46	Berberine-Loaded Liposomes for the Treatment of -Infected BALB/c Mice. <i>Pharmaceutics</i> , 2020 , 12,	6.4	10
45	Novel Methylselenoesters Induce Programed Cell Death via Entosis in Pancreatic Cancer Cells. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	10
44	Mycorrhizal inoculation and/or selenium application affect post-harvest performance of snapdragon flowers. <i>Plant Growth Regulation</i> , 2016 , 78, 389-400	3.2	9
43	In vitro antileishmanial activity and iron superoxide dismutase inhibition of arylamine Mannich base derivatives. <i>Parasitology</i> , 2017 , 144, 1783-1790	2.7	8
42	Structure- and cell-specific effects of imidoselenocarbamates on selenoprotein expression and activity in liver cells in culture. <i>Metallomics</i> , 2012 , 4, 1297-307	4.5	8
41	Synthesis of 6-amino-2-aryl-1,2-dihydro-3H-pyrido[2,3-d]pyrimidin-4-one derivatives. <i>Journal of Heterocyclic Chemistry</i> , 1992 , 29, 1545-1549	1.9	8
40	Identification of a Novel Quinoxaline-Isoselenourea Targeting the STAT3 Pathway as a Potential Melanoma Therapeutic. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	7
39	Thermal stability of selenium, sulfur and nitrogen analogous phthalazine derivatives. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013 , 111, 605-610	4.1	7

38	Symmetrical Derivatives with Nitrogenated Functions as Cytotoxic Agents and Apoptosis Inducers. <i>Letters in Drug Design and Discovery</i> , 2005 , 2, 341-354	0.8	7
37	Novel ,SDisubstituted Acylselenoureas as Potential Antioxidant and Cytotoxic Agents. <i>Antioxidants</i> , 2020 , 9,	7.1	7
36	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	2.8	6
35	Synthesis and biological evaluation of heteroaryldiamides and heteroaryldiamines as cytotoxic agents, apoptosis inducers and caspase-3 activators. <i>Archiv Der Pharmazie</i> , 2006 , 339, 182-92	4.3	6
34	Organoseleno cytostatic derivatives: Autophagic cell death with AMPK and JNK activation. <i>European Journal of Medicinal Chemistry</i> , 2019 , 175, 234-246	6.8	5
33	New Amides Containing Selenium as Potent Leishmanicidal Agents Targeting Trypanothione Reductase. <i>Antimicrobial Agents and Chemotherapy</i> , 2020 , 65,	5.9	5
32	Selenium Derivatives as Promising Therapy for Chagas Disease: and Studies. <i>ACS Infectious Diseases</i> , 2021 , 7, 1727-1738	5.5	5
31	Evaluation of Skin Permeation and Retention of Topical Dapsone in Murine Cutaneous Leishmaniasis Lesions. <i>Pharmaceutics</i> , 2019 , 11,	6.4	5
30	Strong induction of iodothyronine deiodinases by chemotherapeutic selenocompounds. <i>Metallomics</i> , 2015 , 7, 347-54	4.5	4
29	Pre-clinical evidences of the antileishmanial effects of diselenides and selenocyanates. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2020 , 30, 127371	2.9	4
28	Activity enhancement of selective antitumoral selenodiazoles formulated with poloxamine micelles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018 , 170, 463-469	6	4
27	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, 489-98	6.8	4
26	Synthesis of novel organic selenium compounds and speciation of their metabolites in biofortified kale sprouts. <i>Microchemical Journal</i> , 2021 , 172, 106962	4.8	4
25	Phenothiazines and Selenocompounds: A Potential Novel Combination Therapy of Multidrug Resistant Cancer. <i>Anticancer Research</i> , 2020 , 40, 4921-4928	2.3	4
24	3,5-Dimethyl-4-isoxazolyl selenocyanate as promising agent for the treatment of Leishmania infantum-infected mice. <i>Acta Tropica</i> , 2021 , 215, 105801	3.2	4
23	Library of Selenocyanate and Diselenide Derivatives as In Vivo Antichagasic Compounds Targeting Mitochondrion. <i>Pharmaceutics</i> , 2021 , 14,	5.2	4
22	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	2.8	3
21	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	6.8	3

20	Synthesis, characterization, crystal structure and cytotoxicity of 2,4-bis(selenomethyl)quinazoline. <i>Structural Chemistry</i> , 2011 , 22, 1233-1240	1.8	3
19	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, 4375-82	3.4	3
18	Pharmaceutical and Safety Profile Evaluation of Novel Selenocompounds with Noteworthy Anticancer Activity.. <i>Pharmaceutics</i> , 2022 , 14,	6.4	3
17	Novel quinazoline and pyrido[2,3-d]pyrimidine derivatives and their hydroselenite salts as antitumoral agents. <i>Arkivoc</i> , 2014 , 2014, 187-206	0.9	3
16	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	4.5	2
15	Antitumoural Sulphur and Selenium Heteroaryl Compounds: Thermal Characterization and Stability Evaluation. <i>Molecules</i> , 2017 , 22,	4.8	2
14	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	8.3	2
13	Selenium Entities: Promising Scaffolds for the Treatment of Cancer and Leishmania. <i>Current Organic Synthesis</i> , 2018 , 14,	1.9	2
12	New Formulation of a Methylseleno-Aspirin Analog with Anticancer Activity towards Colon Cancer. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	2
11	New Phosphoramidates Containing Selenium as Leishmanicidal Agents. <i>Antimicrobial Agents and Chemotherapy</i> , 2021 , 65, e0059021	5.9	2
10	Thermal analysis of novel selenocarbamates. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016 , 123, 1951-1962	4.1	1
9	Thermal stability and decomposition of urea, thiourea and selenourea analogous diselenide derivatives. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017 , 127, 1663-1674	4.1	1
8	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,	4.8	1
7	Interaction of nucleoside-derivatives with the human Na ⁺ /nucleoside cotransporters CNT1 and CNT3. <i>FASEB Journal</i> , 2008 , 22, 133-133	0.9	1
6	Potential biomedical reuse of vegetative residuals from mycorrhized grapevines subjected to warming. <i>Archives of Agronomy and Soil Science</i> , 2019 , 65, 1341-1353	2	0
5	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	5.5	0
4	Changes in the nanoparticle uptake and distribution caused by an intramacrophagic parasitic infection. <i>Nanoscale</i> , 2021 , 13, 17486-17503	7.7	0
3	Genspezifische Regulation von Selenoproteinen durch Methyl-Imidoselenocarbamate mit Antitumoraktivität. <i>Perspectives in Science</i> , 2015 , 3, 48-49	0.8	

- 2 Vilsmeier reagent, NaHSe and diclofenac acid chloride: one-pot synthesis of a novel selenoindolinone with potent anticancer activity.. *RSC Advances*, **2020**, 10, 38404-38408 3-7
- 1 Thermal characterization and stability evaluation of leishmanicidal selenocyanate and diselenide derivatives. *Journal of Thermal Analysis and Calorimetry*,1 4-1