

Carmela Dell Aversano

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101
papers

4,185
citations

38
h-index

60
g-index

106
ext. papers

4,669
ext. citations

4.9
avg, IF

5.01
L-index

#	Paper	IF	Citations
101	Hydrophilic interaction liquid chromatography--mass spectrometry for the analysis of paralytic shellfish poisoning (PSP) toxins. <i>Journal of Chromatography A</i> , 2005 , 1081, 190-201	4.5	220
100	The Genoa 2005 outbreak. Determination of putative palytoxin in Mediterranean <i>Ostreopsis ovata</i> by a new liquid chromatography tandem mass spectrometry method. <i>Analytical Chemistry</i> , 2006 , 78, 6153-9	7.8	215
99	Putative palytoxin and its new analogue, ovatoxin-a, in <i>Ostreopsis ovata</i> collected along the Ligurian coasts during the 2006 toxic outbreak. <i>Journal of the American Society for Mass Spectrometry</i> , 2008 , 19, 111-20	3.5	171
98	Analysis of cyanobacterial toxins by hydrophilic interaction liquid chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , 2004 , 1028, 155-64	4.5	133
97	Complex palytoxin-like profile of <i>Ostreopsis ovata</i> . Identification of four new ovatoxins by high-resolution liquid chromatography/mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2010 , 24, 2735-44	2.2	119
96	Comparative growth and toxin profile of cultured <i>Ostreopsis ovata</i> from the Tyrrhenian and Adriatic Seas. <i>Toxicon</i> , 2010 , 55, 211-20	2.8	109
95	Isolation and structure elucidation of ovatoxin-a, the major toxin produced by <i>Ostreopsis ovata</i> . <i>Journal of the American Chemical Society</i> , 2012 , 134, 1869-75	16.4	99
94	Complex yessotoxins profile in <i>Protoceratium reticulatum</i> from north-western Adriatic sea revealed by LC-MS analysis. <i>Toxicon</i> , 2003 , 42, 7-14	2.8	92
93	Isolation and structure elucidation of new and unusual saxitoxin analogues from mussels. <i>Journal of Natural Products</i> , 2008 , 71, 1518-23	4.9	87
92	Unique toxin profile of a Mediterranean <i>Ostreopsis cf. ovata</i> strain: HR LC-MS(n) characterization of ovatoxin-f, a new palytoxin congener. <i>Chemical Research in Toxicology</i> , 2012 , 25, 1243-52	4	84
91	First finding of <i>Ostreopsis cf. ovata</i> toxins in marine aerosols. <i>Environmental Science & Technology</i> , 2014 , 48, 3532-40	10.3	83
90	Influence of temperature and salinity on <i>Ostreopsis cf. ovata</i> growth and evaluation of toxin content through HR LC-MS and biological assays. <i>Water Research</i> , 2012 , 46, 82-92	12.5	83
89	A review on the effects of environmental conditions on growth and toxin production of <i>Ostreopsis ovata</i> . <i>Toxicon</i> , 2011 , 57, 421-8	2.8	81
88	LC-MS of palytoxin and its analogues: State of the art and future perspectives. <i>Toxicon</i> , 2011 , 57, 376-89	2.8	80
87	The alternation of different morphotypes in the seasonal cycle of the toxic diatom <i>Pseudo-nitzschia galaxiae</i> . <i>Harmful Algae</i> , 2005 , 4, 33-48	5.3	80
86	<i>Ostreopsis cf. ovata</i> bloom in the northern Adriatic Sea during summer 2009: ecology, molecular characterization and toxin profile. <i>Marine Pollution Bulletin</i> , 2011 , 62, 2512-9	6.7	78
85	Toxin profile of <i>Alexandrium ostenfeldii</i> (Dinophyceae) from the Northern Adriatic Sea revealed by liquid chromatography-mass spectrometry. <i>Toxicon</i> , 2006 , 47, 597-604	2.8	76

84	NMR-based identification of the phenolic profile of fruits of <i>Lycium barbarum</i> (goji berries). Isolation and structural determination of a novel N-feruloyl tyramine dimer as the most abundant antioxidant polyphenol of goji berries. <i>Food Chemistry</i> , 2016 , 194, 1254-9	8.5	75
83	The toxigenic marine dinoflagellate <i>Alexandrium tamarense</i> as the probable cause of mortality of caged salmon in Nova Scotia. <i>Harmful Algae</i> , 2002 , 1, 313-325	5.3	73
82	Stereostructure and biological activity of 42-hydroxy-palytoxin: a new palytoxin analogue from Hawaiian <i>Palythoa</i> subspecies. <i>Chemical Research in Toxicology</i> , 2009 , 22, 1851-9	4	72
81	Toxin levels and profiles in microalgae from the north-Western Adriatic Sea--15 years of studies on cultured species. <i>Marine Drugs</i> , 2012 , 10, 140-62	6	71
80	Structure and stereochemistry of a new cytotoxic polychlorinated sulfolipid from Adriatic shellfish. <i>Journal of the American Chemical Society</i> , 2002 , 124, 13114-20	16.4	61
79	Nitrogen and phosphorus limitation effects on cell growth, biovolume, and toxin production in <i>Ostreopsis cf. ovata</i> . <i>Harmful Algae</i> , 2012 , 15, 78-90	5.3	59
78	The novel ovatoxin-g and isobaric palytoxin (so far referred to as putative palytoxin) from <i>Ostreopsis cf. ovata</i> (NW Mediterranean Sea): structural insights by LC-high resolution MS(n.). <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 1191-204	4.4	57
77	Hydrophilic interaction liquid chromatography/mass spectrometry for determination of domoic acid in Adriatic shellfish. <i>Rapid Communications in Mass Spectrometry</i> , 2005 , 19, 2030-8	2.2	53
76	Toxin-producing <i>Ostreopsis cf. ovata</i> are likely to bloom undetected along coastal areas. <i>Environmental Science & Technology</i> , 2012 , 46, 5574-82	10.3	51
75	Investigation of toxin profile of Mediterranean and Atlantic strains of <i>Ostreopsis cf. siamensis</i> (Dinophyceae) by liquid chromatography-high resolution mass spectrometry. <i>Harmful Algae</i> , 2013 , 23, 19-27	5.3	49
74	New insights on cytological and metabolic features of <i>Ostreopsis cf. ovata</i> Fukuyo (Dinophyceae): a multidisciplinary approach. <i>PLoS ONE</i> , 2013 , 8, e57291	3.7	49
73	Influence of temperature, salinity and nutrient limitation on yessotoxin production and release by the dinoflagellate <i>Protoceratium reticulatum</i> in batch-cultures. <i>Harmful Algae</i> , 2007 , 6, 707-717	5.3	48
72	<i>Ostreopsis factorusoi</i> sp. nov. (Dinophyceae), a new benthic toxic <i>Ostreopsis</i> species from the eastern Mediterranean Sea. <i>Journal of Phycology</i> , 2016 , 52, 1064-1084	3	47
71	Chemistry of verongida sponges. 10. Secondary metabolite composition of the caribbean sponge <i>Verongula gigantea</i> . <i>Journal of Natural Products</i> , 2000 , 63, 263-6	4.9	46
70	Chemistry of verongida sponges. 9.1 secondary metabolite composition of the caribbean sponge <i>aplysina cauliformis</i> . <i>Journal of Natural Products</i> , 1999 , 62, 590-3	4.9	46
69	<i>Gonyaulax spinifera</i> from the Adriatic sea: Toxin production and phylogenetic analysis. <i>Harmful Algae</i> , 2009 , 8, 279-290	5.3	45
68	Spirolide toxin profile of Adriatic <i>Alexandrium ostenfeldii</i> cultures and structure elucidation of 27-hydroxy-13,19-didesmethyl spirolide C. <i>Journal of Natural Products</i> , 2007 , 70, 1878-83	4.9	44
67	A new cytotoxic polychlorinated sulfolipid from contaminated Adriatic mussels. <i>Tetrahedron</i> , 2004 , 60, 7093-7098	2.4	43

66	Mediterranean <i>Azadinium dexteroporum</i> (Dinophyceae) produces six novel azaspiracids and azaspiracid-35: a structural study by a multi-platform mass spectrometry approach. <i>Analytical and Bioanalytical Chemistry</i> , 2017 , 409, 1121-1134	4.4	41
65	Direct detection of yessotoxin and its analogues by liquid chromatography coupled with electrospray ion trap mass spectrometry. <i>Journal of Chromatography A</i> , 2002 , 968, 61-9	4.5	41
64	Active role of the mucilage in the toxicity mechanism of the harmful benthic dinoflagellate <i>Ostreopsis cf. ovata</i> . <i>Harmful Algae</i> , 2015 , 44, 46-53	5.3	39
63	CyanoMetDB, a comprehensive public database of secondary metabolites from cyanobacteria. <i>Water Research</i> , 2021 , 196, 117017	12.5	37
62	Chemical, molecular, and eco-toxicological investigation of <i>Ostreopsis</i> sp. from Cyprus Island: structural insights into four new ovatoxins by LC-HRMS/MS. <i>Analytical and Bioanalytical Chemistry</i> , 2016 , 408, 915-32	4.4	36
61	The acute and chronic effects of combined antipsychotic-mood stabilizing treatment on the expression of cortical and striatal postsynaptic density genes. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2011 , 35, 184-97	5.5	36
60	The detection and identification of 42,43,44,45,46,47,55-heptanor-41-oxoyessotoxin, a new marine toxin from adriatic shellfish, by liquid chromatography-mass spectrometry. <i>Chemical Research in Toxicology</i> , 2002 , 15, 979-84	4	35
59	Structure-activity relationships of yessotoxins in cultured cells. <i>Chemical Research in Toxicology</i> , 2004 , 17, 1251-7	4	34
58	Chemistry of Verongida sponges. VII bromocompounds from the caribbean sponge <i>Aplysina archeri</i> . <i>Tetrahedron</i> , 1996 , 52, 9863-9868	2.4	34
57	Plastic-associated harmful microalgal assemblages in marine environment. <i>Environmental Pollution</i> , 2019 , 244, 617-626	9.3	34
56	High resolution LC-MS(n) fragmentation pattern of palytoxin as template to gain new insights into ovatoxin-a structure. The key role of calcium in MS behavior of palytoxins. <i>Journal of the American Society for Mass Spectrometry</i> , 2012 , 23, 952-63	3.5	33
55	Differential expression of Homer 1 gene by acute and chronic administration of antipsychotics and dopamine transporter inhibitors in the rat forebrain. <i>Synapse</i> , 2007 , 61, 429-39	2.4	33
54	Complex toxin profile of <i>Mytilus galloprovincialis</i> from the Adriatic sea revealed by LC-MS. <i>Toxicon</i> , 2010 , 55, 280-8	2.8	32
53	Harmful dinoflagellate <i>Ostreopsis cf. ovata</i> Fukuyo: detection of ovatoxins in field samples and cell immunolocalization using antipalytoxin antibodies. <i>Environmental Science & Technology</i> , 2011 , 45, 7051-9	10.3	32
52	Investigation of the toxin profile of Greek mussels <i>Mytilus galloprovincialis</i> by liquid chromatography-mass spectrometry. <i>Toxicon</i> , 2006 , 47, 174-81	2.8	31
51	First detection of tetrodotoxin and high levels of paralytic shellfish poisoning toxins in shellfish from Sicily (Italy) by three different analytical methods. <i>Chemosphere</i> , 2019 , 215, 881-892	8.4	30
50	Palytoxin and an <i>Ostreopsis</i> toxin extract increase the levels of mRNAs encoding inflammation-related proteins in human macrophages via p38 MAPK and NF- κ B. <i>PLoS ONE</i> , 2012 , 7, e38139	3.7	29
49	Characterization of 27-hydroxy-13-desmethyl spirolide C and 27-oxo-13,19-didesmethyl spirolide C. Further insights into the complex Adriatic <i>Alexandrium ostenfeldii</i> toxin profile. <i>Toxicon</i> , 2010 , 56, 1327-33	2.8	29

48	Involvement of the nitric oxide/protein kinase G pathway in polychlorinated biphenyl-induced cell death in SH-SY 5Y neuroblastoma cells. <i>Journal of Neuroscience Research</i> , 2006 , 84, 692-7	4.4	28
47	Liquid chromatography-high-resolution mass spectrometry for palytoxins in mussels. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 1463-73	4.4	27
46	SxtA and sxtG gene expression and toxin production in the Mediterranean <i>Alexandrium minutum</i> (Dinophyceae). <i>Marine Drugs</i> , 2014 , 12, 5258-76	6	27
45	Growth dynamics in relation to the production of the main cellular components in the toxic dinoflagellate <i>Ostreopsis cf. ovata</i> . <i>Harmful Algae</i> , 2014 , 36, 1-10	5.3	26
44	Toxins from Adriatic blue mussels. A decade of studies. <i>Pure and Applied Chemistry</i> , 2003 , 75, 325-336	2.1	26
43	Palytoxin in seafood by liquid chromatography tandem mass spectrometry: investigation of extraction efficiency and matrix effect. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 401, 1043-50	4.4	25
42	Antipsychotic and antidepressant co-treatment: effects on transcripts of inducible postsynaptic density genes possibly implicated in behavioural disorders. <i>Brain Research Bulletin</i> , 2009 , 79, 123-9	3.9	25
41	Variability in Toxin Profiles of the Mediterranean <i>Ostreopsis cf. ovata</i> and in Structural Features of the Produced Ovatoxins. <i>Environmental Science & Technology</i> , 2017 , 51, 13920-13928	10.3	24
40	Ovatoxin-a, A Palytoxin Analogue Isolated from <i>Ostreopsis cf. ovata</i> Fukuyo: Cytotoxic Activity and ELISA Detection. <i>Environmental Science & Technology</i> , 2016 , 50, 1544-51	10.3	23
39	A 4-decade-long (and still ongoing) hunt for palytoxins chemical architecture. <i>Toxicon</i> , 2011 , 57, 362-7	2.8	23
38	Stereoisomers of 42-hydroxy palytoxin from Hawaiian <i>Palythoa toxica</i> and <i>P. tuberculosa</i> : stereostructure elucidation, detection, and biological activities. <i>Journal of Natural Products</i> , 2014 , 77, 351-7	4.9	22
37	Desulfoyessotoxins from Adriatic mussels: a new problem for seafood safety control. <i>Chemical Research in Toxicology</i> , 2007 , 20, 95-8	4	21
36	(1S,3R,4S,5R)5-O-Caffeoylquinic acid: isolation, stereo-structure characterization and biological activity. <i>Food Chemistry</i> , 2015 , 178, 306-10	8.5	20
35	Oxazinin-1, -2 and -3 [A Novel Toxic Compound and Its Analogues from the Digestive Glands of <i>Mytilus galloprovincialis</i> . <i>European Journal of Organic Chemistry</i> , 2001 , 2001, 49-53	3.2	20
34	Ecdysteroids from the caribbean sponge <i>Iotrochota birotulata</i> . <i>Steroids</i> , 2000 , 65, 138-42	2.8	20
33	The sxt Gene and Paralytic Shellfish Poisoning Toxins as Markers for the Monitoring of Toxic <i>Alexandrium</i> Species Blooms. <i>Environmental Science & Technology</i> , 2015 , 49, 14230-8	10.3	18
32	Marine Toxins in Italy: The More You Look, the More You Find. <i>European Journal of Organic Chemistry</i> , 2014 , 2014, 1357-1369	3.2	18
31	Toxin Variability Estimations of 68 <i>Alexandrium ostenfeldii</i> (Dinophyceae) Strains from The Netherlands Reveal a Novel Abundant Gymnodimine. <i>Microorganisms</i> , 2017 , 5,	4.9	17

30	Ostreopsis cf. ovata from western Mediterranean Sea: Physiological responses under different temperature and salinity conditions. <i>Harmful Algae</i> , 2016 , 57, 98-108	5.3	16
29	Oxazinins from toxic mussels: isolation of a novel oxazinin and reassignment of the C-2 configuration of oxazinin-1 and -2 on the basis of synthetic models. <i>Tetrahedron</i> , 2006 , 62, 7738-7743	2.4	16
28	Assignment of the absolute stereochemistry of oxazinin-1: application of the 9-AMA shift-correlation method for chiral primary alcohols. <i>Tetrahedron</i> , 2001 , 57, 8189-8192	2.4	16
27	Stereochemical studies on ovatoxin-a. <i>Chemistry - A European Journal</i> , 2012 , 18, 16836-43	4.8	15
26	Archerine, a Novel Anti-Histaminic Bromotyrosine-Derived Compound from the Caribbean Marine Sponge <i>Aplysina archeri</i> . <i>European Journal of Organic Chemistry</i> , 2001 , 2001, 55-60	3.2	15
25	An aquarium hobbyist poisoning: Identification of new palytoxins in <i>Palythoa cf. toxica</i> and complete detoxification of the aquarium water by activated carbon. <i>Toxicon</i> , 2016 , 121, 41-50	2.8	14
24	Identification of a Sorbicillinoid-Producing <i>Aspergillus</i> Strain with Antimicrobial Activity Against <i>Staphylococcus aureus</i> : a New Polyextremophilic Marine Fungus from Barents Sea. <i>Marine Biotechnology</i> , 2018 , 20, 502-511	3.4	13
23	Influence of environmental factors on the toxin production of <i>Ostreopsis cf. ovata</i> during bloom events. <i>Marine Pollution Bulletin</i> , 2017 , 123, 261-268	6.7	13
22	Cell Growth and Toxin Content of <i>Ostreopsis cf. Ovata</i> in Presence and Absence of Associated Bacteria. <i>Cryptogamie, Algologie</i> , 2012 , 33, 105-112	0.7	13
21	Biogeographic effects of the Gulf of Mexico red tide dinoflagellate <i>Karenia brevis</i> on Mediterranean copepods. <i>Harmful Algae</i> , 2012 , 16, 63-73	5.3	13
20	Full relative stereochemistry assignment and conformational analysis of 13,19-didesmethyl spirolide C via NMR- and molecular modeling-based techniques. A step towards understanding spirolide's mechanism of action. <i>Organic and Biomolecular Chemistry</i> , 2009 , 7, 3674-81	3.9	13
19	Effects of N and P availability on carbon allocation in the toxic dinoflagellate <i>Ostreopsis cf. ovata</i> . <i>Harmful Algae</i> , 2016 , 55, 202-212	5.3	13
18	NMR-based phytochemical analysis of <i>Vitis vinifera</i> cv Falanghina leaves. Characterization of a previously undescribed biflavonoid with antiproliferative activity. <i>Phytochemistry</i> , 2018 , 125, 13-17	3.2	12
17	Massive Occurrence of the Harmful Benthic Dinoflagellate cf. in the Eastern Adriatic Sea. <i>Toxins</i> , 2019 , 11,	4.9	11
16	Determination of Palytoxins in Soft Coral and Seawater from a Home Aquarium. Comparison between <i>Palythoa</i> - and <i>Ostreopsis</i> -Related Inhalatory Poisonings. <i>Environmental Science & Technology</i> , 2016 , 50, 1023-30	10.3	11
15	Stereostructural Determination by a Synthetic and NMR-Based Approach of Three Oxazinins Isolated from Adriatic Mussels. <i>European Journal of Organic Chemistry</i> , 2007 , 2007, 5434-5439	3.2	11
14	Comprehensive database of secondary metabolites from cyanobacteria		11
13	Palytoxins: A still haunting Hawaiian curse. <i>Phytochemistry Reviews</i> , 2010 , 9, 491-500	7.7	10

12	Role of temperature and nutrients on the growth and toxin production of <i>Prorocentrum hoffmannianum</i> (Dinophyceae) from the Florida Keys. <i>Harmful Algae</i> , 2018 , 80, 140-148	5.3	9
11	Ciguatera Mini Review: 21st Century Environmental Challenges and the Interdisciplinary Research Efforts Rising to Meet Them. <i>International Journal of Environmental Research and Public Health</i> , 2021 , 18,	4.6	6
10	Identification of palytoxin-Ca ²⁺ complex by NMR and molecular modeling techniques. <i>Journal of Organic Chemistry</i> , 2014 , 79, 72-9	4.2	5
9	Chapter 1 Recent Developments in Mediterranean Harmful Algal Events. <i>Advances in Molecular Toxicology</i> , 2009 , 3, 1-41	0.4	5
8	Improving in vitro ciguatoxin and brevetoxin detection: selecting neuroblastoma (Neuro-2a) cells with lower sensitivity to ouabain and veratridine (OV-LS). <i>Harmful Algae</i> , 2021 , 103, 101994	5.3	5
7	Exploring the Photodynamic Properties of Two Antiproliferative Benzodiazopyrrole Derivatives. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	4
6	Development of a data dependent acquisition-based approach for the identification of unknown fast-acting toxins and their ester metabolites. <i>Talanta</i> , 2021 , 224, 121842	6.2	3
5	Seafood Toxins: Classes, Sources, and Toxicology 2012 , 1345-1387		2
4	Chemistry of palytoxin and its analogues 85-111		2
3	Mass Spectrometry Based Methods for the Structural Characterization of Marine Toxins. <i>Comprehensive Analytical Chemistry</i> , 2017 , 193-209	1.9	1
2	Hydrophilic Interaction Liquid Chromatography-Mass Spectrometry (HILIC-MS) of Paralytic Shellfish Poisoning Toxins, Domoic Acid, and Assorted Cyanobacterial Toxins. <i>Chromatographic Science</i> , 2011 , 105-132		1
1	Structural studies and biological evaluation of T30695 variants modified with single chiral glycerol-T reveal the importance of LEDGF/p75 for the aptamer anti-HIV-integrase activities. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2019 , 1863, 351-361	4	0