Carmela Dell'Aversano

List of Publications by Year
in descending order

102 papers	5,099 citations	66343 42 h-index	98798 67 g-index
107 all docs	107 docs citations	107 times ranked	3193 citing authors

#	Article	IF	Citations
1	The Genoa 2005 Outbreak. Determination of Putative Palytoxin in MediterraneanOstreopsisovataby a New Liquid Chromatography Tandem Mass Spectrometry Method. Analytical Chemistry, 2006, 78, 6153-6159.	6.5	248
2	Hydrophilic interaction liquid chromatographyâ€“mass spectrometry for the analysis of paralytic shellfish poisoning (PSP) toxins. Journal of Chromatography A, 2005, 1081, 190-201.	3.7	246
3	Putative palytoxin and its new analogue, ovatoxin-a, in Ostreopsis ovata collected along the ligurian coasts during the 2006 toxic outbreak. Journal of the American Society for Mass Spectrometry, 2008, 19, 111-120.	2.8	192
4	Analysis of cyanobacterial toxins by hydrophilic interaction liquid chromatographyâ€“mass spectrometry. Journal of Chromatography A, 2004, 1028, 155-164.	3.7	149
5	CyanoMetDB, a comprehensive public database of secondary metabolites from cyanobacteria. Water Research, 2021, 196, 117017.	11.3	142
6	Complex palytoxinâ€like profile of Ostreopsis ovata. Identification of four new ovatoxins by highâ€resolution liquid chromatography/mass spectrometry. Rapid Communications in Mass Spectrometry, 2010, 24, 2735-2744.	1.5	131
7	Comparative growth and toxin profile of cultured Ostreopsis ovata from the Tyrrhenian and Adriatic Seas. Toxicon, 2010, 55, 211-220.	1.6	122
8	Isolation and Structure Elucidation of Ovatoxin-a, the Major Toxin Produced by Ostreopsis ovata. Journal of the American Chemical Society, 2012, 134, 1869-1875.	13.7	113
9	First Finding of Ostreopsis cf. ovata Toxins in Marine Aerosols. Environmental Science & Technology, 2014, 48, 3532-3540.	10.0	104
10	The alternation of different morphotypes in the seasonal cycle of the toxic diatom Pseudo-nitzschia galaxiae. Harmful Algae, 2005, 4, 33-48.	4.8	101
11	Isolation and Structure Elucidation of New and Unusual Saxitoxin Analogues from Mussels. Journal of Natural Products, 2008, 71, 1518-1523.	3.0	101
12	Influence of temperature and salinity on Ostreopsis cf. ovata growth and evaluation of toxin content through HR LC-MS and biological assays. Water Research, 2012, 46, 82-92.	11.3	100
13	Unique Toxin Profile of a Mediterranean Ostreopsis cf. ovata Strain: HR LC-MSⁿ Characterization of Ovatoxin-f, a New Palytoxin Congener. Chemical Research in Toxicology, 2012, 25, 1243-1252.	3.3	100
14	Complex yessotoxins profile in Protoceratium reticulatum from north-western Adriatic sea revealed by LCâ€“MS analysis. Toxicon, 2003, 42, 7-14.	1.6	99
15	LC-MS of palytoxin and its analogues: State of the art and future perspectives. Toxicon, 2011, 57, 376-389.	1.6	96
16	NMR-based identification of the phenolic profile of fruits of Lycium barbarum (goji berries). Isolation and structural determination of a novel N-feruloyl tyramine dimer as the most abundant antioxidant polyphenol of goji berries. Food Chemistry, 2016, 194, 1254-1259.	8.2	95
17	A review on the effects of environmental conditions on growth and toxin production of Ostreopsis ovata. Toxicon, 2011, 57, 421-428.	1.6	94
18	Ostreopsis cf. ovata bloom in the northern Adriatic Sea during summer 2009: Ecology, molecular characterization and toxin profile. Marine Pollution Bulletin, 2011, 62, 2512-2519.	5.0	91

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19	Toxin Levels and Profiles in Microalgae from the North-Western Adriatic Seaâ€"15 Years of Studies on Cultured Species. Marine Drugs, 2012, 10, 140-162.	4.6	86
20	The toxigenic marine dinoflagellate Alexandrium tamarense as the probable cause of mortality of caged salmon in Nova Scotia. Harmful Algae, 2002, 1, 313-325.	4.8	84
21	Toxin profile of Alexandrium ostenfeldii (Dinophyceae) from the Northern Adriatic Sea revealed by liquid chromatographyâ€"mass spectrometry. Toxicon, 2006, 47, 597-604.	1.6	84
22	Stereostructure and Biological Activity of 42-Hydroxy-palytoxin: A New Palytoxin Analogue from Hawaiian Palythoa Subspecies. Chemical Research in Toxicology, 2009, 22, 1851-1859.	3.3	82
23	The novel ovatoxin-g and isobaric palytoxin (so far referred to as putative palytoxin) from Ostreopsis cf. ovata (NW Mediterranean Sea): structural insights by LC-high resolution MSn. Analytical and Bioanalytical Chemistry, 2015, 407, 1191-1204.	3.7	70
24	Plastic-associated harmful microalgal assemblages in marine environment. Environmental Pollution, 2019, 244, 617-626.	7.5	69
25	Ostreopsis fattorussoi sp. nov. (Dinophyceae), a new benthic toxic Ostreopsis species from the eastern Mediterranean Sea. Journal of Phycology, 2016, 52, 1064-1084.	2.3	68
26	New Insights on Cytological and Metabolic Features of Ostreopsis cf. ovata Fukuyo (Dinophyceae): A Multidisciplinary Approach. PLoS ONE, 2013, 8, e57291.	2.5	67
27	Structure and Stereochemistry of a New Cytotoxic Polychlorinated Sulfolipid from Adriatic Shellfish. Journal of the American Chemical Society, 2002, 124, 13114-13120.	13.7	65
28	Nitrogen and phosphorus limitation effects on cell growth, biovolume, and toxin production in Ostreopsis cf. ovata. Harmful Algae, 2012, 15, 78-90.	4.8	65
29	Hydrophilic interaction liquid chromatography/mass spectrometry for determination of domoic acid in Adriatic shellfish. Rapid Communications in Mass Spectrometry, 2005, 19, 2030-2038.	1.5	62
30	Toxin-Producing Ostreopsis cf. ovata are Likely to Bloom Undetected along Coastal Areas. Environmental Science & Technology, 2012, 46, 5574-5582.	10.0	60
31	Investigation of toxin profile of Mediterranean and Atlantic strains of Ostreopsis cf. siamensis (Dinophyceae) by liquid chromatographyâ€"high resolution mass spectrometry. Harmful Algae, 2013, 23, 19-27.	4.8	57
32	First detection of tetrodotoxin and high levels of paralytic shellfish poisoning toxins in shellfish from Sicily (Italy) by three different analytical methods. Chemosphere, 2019, 215, 881-892.	8.2	57
33	Influence of temperature, salinity and nutrient limitation on yessotoxin production and release by the dinoflagellate Protoceratium reticulatum in batch-cultures. Harmful Algae, 2007, 6, 707-717.	4.8	54
34	Gonyaulax spinifera from the Adriatic sea: Toxin production and phylogenetic analysis. Harmful Algae, 2009, 8, 279-290.	4.8	53
35	Chemistry of Verongida Sponges. 9. Secondary Metabolite Composition of the Caribbean Sponge Aplysina cauliformis. Journal of Natural Products, 1999, 62, 590-593.	3.0	51
36	Chemistry of Verongida Sponges. 10.1Secondary Metabolite Composition of the Caribbean SpongeVerongulagigantea. Journal of Natural Products, 2000, 63, 263-266.	3.0	50

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37	Mediterranean Azadinium dexteroporum (Dinophyceae) produces six novel azaspiracids and azaspiracid-35: a structural study by a multi-platform mass spectrometry approach. Analytical and Bioanalytical Chemistry, 2017, 409, 1121-1134.	3.7	50
38	Active role of the mucilage in the toxicity mechanism of the harmful benthic dinoflagellate Ostreopsis cf. ovata. Harmful Algae, 2015, 44, 46-53.	4.8	48
39	A new cytotoxic polychlorinated sulfolipid from contaminated Adriatic mussels. Tetrahedron, 2004, 60, 7093-7098.	1.9	46
40	Spirolide Toxin Profile of Adriatic Alexandrium ostenfeldii Cultures and Structure Elucidation of 27-Hydroxy-13,19-didesmethyl Spirolide C. Journal of Natural Products, 2007, 70, 1878-1883.	3.0	46
41	Chemical, molecular, and eco-toxicological investigation of Ostreopsis sp. from Cyprus Island: structural insights into four new ovatoxins by LC-HRMS/MS. Analytical and Bioanalytical Chemistry, 2016, 408, 915-932.	3.7	45
42	The acute and chronic effects of combined antipsychoticâ€“mood stabilizing treatment on the expression of cortical and striatal postsynaptic density genes. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2011, 35, 184-197.	4.8	44
43	Direct detection of yessotoxin and its analogues by liquid chromatography coupled with electrospray ion trap mass spectrometry. Journal of Chromatography A, 2002, 968, 61-69.	3.7	43
44	SxtA and sxtG Gene Expression and Toxin Production in the Mediterranean Alexandrium minutum (Dinophyceae). Marine Drugs, 2014, 12, 5258-5276.	4.6	42
45	Chemistry of Verongida sponges. VII bromocompounds from the caribbean sponge Aplysina archeri. Tetrahedron, 1996, 52, 9863-9868.	1.9	38
46	The Detection and Identification of 42,43,44,45,46,47,55-Heptanor-41-oxoyessotoxin, a New Marine Toxin from Adriatic Shellfish, by Liquid Chromatographyâ^'Mass Spectrometry. Chemical Research in Toxicology, 2002, 15, 979-984.	3.3	38
47	Investigation of the toxin profile of Greek mussels Mytilus galloprovincialis by liquid chromatographyâ€"mass spectrometry. Toxicon, 2006, 47, 174-181.	1.6	38
48	Involvement of the nitric oxide/protein kinase G pathway in polychlorinated biphenyl-induced cell death in SH-SY 5Y neuroblastoma cells. Journal of Neuroscience Research, 2006, 84, 692-697.	2.9	37
49	Structureâ^'Activity Relationships of Yessotoxins in Cultured Cells. Chemical Research in Toxicology, 2004, 17, 1251-1257.	3.3	36
50	High Resolution LC-MSⁿ Fragmentation Pattern of Palytoxin as Template to Gain New Insights into Ovatoxin-a Structure. The Key Role of Calcium in MS Behavior of Palytoxins. Journal of the American Society for Mass Spectrometry, 2012, 23, 952-963.	2.8	36
51	Variability in Toxin Profiles of the Mediterranean Ostreopsis cf. ovata and in Structural Features of the Produced Ovatoxins. Environmental Science & Technology, 2017, 51, 13920-13928.	10.0	36
52	Complex toxin profile of Mytilus galloprovincialis from the Adriatic sea revealed by LCâ€“MS. Toxicon, 2010, 55, 280-288.	1.6	35
53	Harmful Dinoflagellate Ostreopsis cf. ovata Fukuyo: Detection of Ovatoxins in Field Samples and Cell Immunolocalization Using Antipalytoxin Antibodies. Environmental Science & Technology, 2011, 45, 7051-7059.	10.0	35
54	Differential expression ofHomer 1 gene by acute and chronic administration of antipsychotics and dopamine transporter inhibitors in the rat forebrain. Synapse, 2007, 61, 429-439.	1.2	34

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55	Liquid chromatographyâ€“high-resolution mass spectrometry for palytoxins in mussels. Analytical and Bioanalytical Chemistry, 2015, 407, 1463-1473.	3.7	34
56	Palytoxin and an Ostreopsis Toxin Extract Increase the Levels of mRNAs Encoding Inflammation-Related Proteins in Human Macrophages via p38 MAPK and NF-ÎºB. PLoS ONE, 2012, 7, e38139.	2.5	33
57	Characterization of 27-hydroxy-13-desmethyl spirolide C and 27-oxo-13,19-didesmethyl spirolide C. Further insights into the complex Adriatic Alexandrium ostenfeldii toxin profile. Toxicon, 2010, 56, 1327-1333.	1.6	32
58	Antipsychotic and antidepressant co-treatment: Effects on transcripts of inducible postsynaptic density genes possibly implicated in behavioural disorders. Brain Research Bulletin, 2009, 79, 123-129.	3.0	31
59	Palytoxin in seafood by liquid chromatography tandem mass spectrometry: investigation of extraction efficiency and matrix effect. Analytical and Bioanalytical Chemistry, 2011, 401, 1043-1050.	3.7	30
60	Growth dynamics in relation to the production of the main cellular components in the toxic dinoflagellate Ostreopsis cf. ovata. Harmful Algae, 2014, 36, 1-10.	4.8	30
61	Ovatoxin-a, A Palytoxin Analogue Isolated from Ostreopsis cf. ovata Fukuyo: Cytotoxic Activity and ELISA Detection. Environmental Science & Technology, 2016, 50, 1544-1551.	10.0	30
62	Toxins from Adriatic blue mussels. A decade of studies. Pure and Applied Chemistry, 2003, 75, 325-336.	1.9	29
63	A 4-decade-long (and still ongoing) hunt for palytoxins chemical architecture. Toxicon, 2011, 57, 362-367.	1.6	26
64	Stereoisomers of 42-Hydroxy Palytoxin from Hawaiian Palythoa toxica and P. tuberculosa: Stereostructure Elucidation, Detection, and Biological Activities. Journal of Natural Products, 2014, 77, 351-357.	3.0	26
65	(1S,3R,4S,5R)5-O-Caffeoylquinic acid: Isolation, stereo-structure characterization and biological activity. Food Chemistry, 2015, 178, 306-310.	8.2	26
66	Desulfoyessotoxins from Adriatic Mussels:Â A New Problem for Seafood Safety Control. Chemical Research in Toxicology, 2007, 20, 95-98.	3.3	25
67	The sxt Gene and Paralytic Shellfish Poisoning Toxins as Markers for the Monitoring of Toxic Alexandrium Species Blooms. Environmental Science & Technology, 2015, 49, 14230-14238.	10.0	25
68	Ecdysteroids from the Caribbean sponge Iotrochota birotulata. Steroids, 2000, 65, 138-142.	1.8	24
69	Marine Toxins in Italy: The More You Look, the More You Find. European Journal of Organic Chemistry, 2014, 2014, 1357-1369.	2.4	24
70	Ostreopsis cf. ovata from western Mediterranean Sea: Physiological responses under different temperature and salinity conditions. Harmful Algae, 2016, 57, 98-108.	4.8	24
71	Toxin Variability Estimations of 68 Alexandrium ostenfeldii (Dinophyceae) Strains from The Netherlands Reveal a Novel Abundant Gymnodimine. Microorganisms, 2017, 5, 29.	3.6	24
72	Oxazinin-1, -2 and -3 â^' A Novel Toxic Compound and Its Analogues from the Digestive Glands ofMytilus galloprovincialis. European Journal of Organic Chemistry, 2001, 2001, 49-53.	2.4	22

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73	Influence of environmental factors on the toxin production of Ostreopsis cf. ovata during bloom events. Marine Pollution Bulletin, 2017, 123, 261-268.	5.0	20
74	Ciguatera Mini Review: 21st Century Environmental Challenges and the Interdisciplinary Research Efforts Rising to Meet Them. International Journal of Environmental Research and Public Health, 2021, 18, 3027.	2.6	20
75	Archerine, a Novel Anti-Histaminic Bromotyrosine-Derived Compound from the Caribbean Marine SpongeAplysina archeri. European Journal of Organic Chemistry, 2001, 2001, 55-60.	2.4	19
76	Stereochemical Studies on Ovatoxinâ€a. Chemistry - A European Journal, 2012, 18, 16836-16843.	3.3	19
77	Identification of a Sorbicillinoid-Producing Aspergillus Strain with Antimicrobial Activity Against Staphylococcus aureus: a New Polyextremophilic Marine Fungus from Barents Sea. Marine Biotechnology, 2018, 20, 502-511.	2.4	19
78	Improving in vitro ciguatoxin and brevetoxin detection: selecting neuroblastoma (Neuro-2a) cells with lower sensitivity to ouabain and veratridine (OV-LS). Harmful Algae, 2021, 103, 101994.	4.8	19
79	Assignment of the absolute stereochemistry of oxazinin-1: application of the 9-AMA shift-correlation method for Î²-chiral primary alcohols. Tetrahedron, 2001, 57, 8189-8192.	1.9	18
80	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. Tetrahedron, 2006, 62, 7738-7743.	1.9	18
81	Biogeographic effects of the Gulf of Mexico red tide dinoflagellate Karenia brevis on Mediterranean copepods. Harmful Algae, 2012, 16, 63-73.	4.8	17
82	An aquarium hobbyist poisoning: Identification of new palytoxins in Palythoa cf. toxica and complete detoxification of the aquarium water by activated carbon. Toxicon, 2016, 121, 41-50.	1.6	17
83	NMR-based phytochemical analysis of Vitis vinifera cv Falanghina leaves. Characterization of a previously undescribed biflavonoid with antiproliferative activity. FÃ¬toterapÃ¬Ã¢, 2018, 125, 13-17.	2.2	17
84	Full relative stereochemistry assignment and conformational analysis of 13,19-didesmethyl spirolide C via NMR- and molecular modeling-based techniques. A step towards understanding spirolideâ€™s mechanism of action. Organic and Biomolecular Chemistry, 2009, 7, 3674.	2.8	16
85	Massive Occurrence of the Harmful Benthic Dinoflagellate Ostreopsis cf. ovata in the Eastern Adriatic Sea. Toxins, 2019, 11, 300.	3.4	16
86	Effects of N and P availability on carbon allocation in the toxic dinoflagellate Ostreopsis cf. ovata. Harmful Algae, 2016, 55, 202-212.	4.8	15
87	Determination of Palytoxins in Soft Coral and Seawater from a Home Aquarium. Comparison between Palythoa- and Ostreopsis-Related Inhalatory Poisonings. Environmental Science & Technology, 2016, 50, 1023-1030.	10.0	15
88	Cell Growth and Toxins' Content ofOstreopsiscf.Ovatain Presence and Absence of Associated Bacteria. Cryptogamie, Algologie, 2012, 33, 105-112.	0.9	14
89	Role of temperature and nutrients on the growth and toxin production of Prorocentrum hoffmannianum (Dinophyceae) from the Florida Keys. Harmful Algae, 2018, 80, 140-148.	4.8	13
90	Stereostructural Determination by a Synthetic and NMRâ€Based Approach of Three Oxazinins Isolated from Adriatic Mussels. European Journal of Organic Chemistry, 2007, 2007, 5434-5439.	2.4	11

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91	Palytoxins: A still haunting Hawaiian curse. Phytochemistry Reviews, 2010, 9, 491-500.	6.5	11
92	Development of a data dependent acquisition-based approach for the identification of unknown fast-acting toxins and their ester metabolites. Talanta, 2021, 224, 121842.	5.5	11
93	Exploring the Photodynamic Properties of Two Antiproliferative Benzodiazopyrrole Derivatives. International Journal of Molecular Sciences, 2020, 21, 1246.	4.1	10
94	Chapter 1 Recent Developments in Mediterranean Harmful Algal Events. Advances in Molecular Toxicology, 2009, 3, 1-41.	0.4	6
95	Identification of Palytoxinâ€“Ca²⁺ Complex by NMR and Molecular Modeling Techniques. Journal of Organic Chemistry, 2014, 79, 72-79.	3.2	5
96	Seafood Toxins: Classes, Sources, and Toxicology. , 2012, , 1345-1387.		2
97	Toward Isolation of Palytoxins: Liquid Chromatography Coupled to Low- or High-Resolution Mass Spectrometry for the Study on the Impact of Drying Techniques, Solvents and Materials. Toxins, 2021, 13, 650.	3.4	2
98	Mass Spectrometryâ€“Based Methods for the Structural Characterization of Marine Toxins. Comprehensive Analytical Chemistry, 2017, , 193-209.	1.3	1
99	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. Biochimica Et Biophysica Acta - General Subjects, 2019, 1863, 351-361.	2.4	1
100	HPLC-Based Analysis of Impurities in Sapropterin Branded and Generic Tablets. Pharmaceutics, 2020, 12, 323.	4.5	1
101	Hydrophilic Interaction Liquid Chromatographyâ€“Mass Spectrometry (HILICâ€“MS) of Paralytic Shellfish Poisoning Toxins, Domoic Acid, and Assorted Cyanobacterial Toxins. Chromatographic Science, 2011, , 105-132.	0.1	1
102	Oxazinin-1, -2 and -3 â^' A Novel Toxic Compound and Its Analogues from the Digestive Glands of Mytilus galloprovincialis. European Journal of Organic Chemistry, 2001, 2001, 49-53.	2.4	0