

Mark Alan Berhow

List of Publications by Year in descending order

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115
papers

3,831
citations

136950

32
h-index

149698

56
g-index

117
all docs

117
docs citations

117
times ranked

4908
citing authors

#	ARTICLE	IF	CITATIONS
1	Inhibition of Akt signaling and enhanced ERK1/2 activity are involved in induction of macroautophagy by triterpenoid B-group soyasaponins in colon cancer cells. <i>Carcinogenesis</i> , 2006, 27, 298-306.	2.8	200
2	Glucosinolate hydrolysis products from various plant sources: pH effects, isolation, and purification. <i>Industrial Crops and Products</i> , 2005, 21, 193-202.	5.2	160
3	Lipase-catalyzed synthesis of ferulate esters. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2000, 77, 513-519.	1.9	139
4	Bean cultivars (<i>Phaseolus vulgaris</i> L.) have similar high antioxidant capacity, in vitro inhibition of α -amylase and α -glucosidase while diverse phenolic composition and concentration. <i>Food Research International</i> , 2015, 69, 38-48.	6.2	125
5	Bioactive Compounds from Culinary Herbs Inhibit a Molecular Target for Type 2 Diabetes Management, Dipeptidyl Peptidase IV. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 6147-6158.	5.2	118
6	Allelochemicals Isolated from Tissues of the Invasive Weed Garlic Mustard (<i>Alliaria petiolata</i>). <i>Journal of Chemical Ecology</i> , 1999, 25, 2495-2504.	1.8	111
7	Characterization and antimutagenic activity of soybean saponins. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2000, 448, 11-22.	1.0	109
8	Quantification of Saponins in Aerial and Subterranean Tissues of <i>Medicago truncatula</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2005, 53, 1914-1920.	5.2	108
9	Dietary isoflavones suppress endotoxin-induced inflammatory reaction in liver and intestine. <i>Cancer Letters</i> , 2004, 215, 21-28.	7.2	90
10	Effect of time and temperature on bioactive compounds in germinated Brazilian soybean cultivar BRS 258. <i>Food Research International</i> , 2010, 43, 1856-1865.	6.2	88
11	Wild Brazilian Mustard (<i>Brassica juncea</i> L.) Seed Oil Methyl Esters as Biodiesel Fuel. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2009, 86, 917-926.	1.9	86
12	Complete Quantification of Group A and Group B Soyasaponins in Soybeans. <i>Journal of Agricultural and Food Chemistry</i> , 2006, 54, 2035-2044.	5.2	84
13	Evaluation of Soyasaponin, Isoflavone, Protein, Lipid, and Free Sugar Accumulation in Developing Soybean Seeds. <i>Journal of Agricultural and Food Chemistry</i> , 2006, 54, 10003-10010.	5.2	81
14	Dicaffeoylquinic acids in Yerba mate (<i>Ilex paraguariensis</i> St. Hilaire) inhibit NF- κ B nucleus translocation in macrophages and induce apoptosis by activating caspases 8 and 3 in human colon cancer cells. <i>Molecular Nutrition and Food Research</i> , 2011, 55, 1509-1522.	3.3	81
15	β -Conglycinins among Sources of Bioactives in Hydrolysates of Different Soybean Varieties That Inhibit Leukemia Cells in Vitro. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 4012-4020.	5.2	80
16	Optimized analysis and quantification of glucosinolates from <i>Camelina sativa</i> seeds by reverse-phase liquid chromatography. <i>Industrial Crops and Products</i> , 2013, 43, 119-125.	5.2	79
17	Herbicidal activity of glucosinolate-containing seedmeals. <i>Weed Science</i> , 2006, 54, 743-748.	1.5	71
18	Environmental Influences on Isoflavones and Saponins in Soybeans and Their Role in Colon Cancer. <i>Journal of Nutrition</i> , 2005, 135, 1239-1242.	2.9	67

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19	Î²-Conglycinin Embeds Active Peptides That Inhibit Lipid Accumulation in 3T3-L1 Adipocytes in Vitro. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 10533-10543.	5.2	65
20	Optimisation of germination time and temperature on the concentration of bioactive compounds in Brazilian soybean cultivar BRS 133 using response surface methodology. <i>Food Chemistry</i> , 2010, 119, 636-642.	8.2	56
21	Bowmanâ€™Birk Inhibitor and Genistein among Soy Compounds That Synergistically Inhibit Nitric Oxide and Prostaglandin E ₂ Pathways in Lipopolysaccharide-Induced Macrophages. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 11707-11717.	5.2	55
22	Analysis and quantitative determination of group B saponins in processed soybean products. <i>Phytochemical Analysis</i> , 2002, 13, 343-348.	2.4	54
23	Colored and White Sectors From Star-Patterned Petunia Flowers Display Differential Resistance to Corn Earworm and Cabbage Looper Larvae. <i>Journal of Chemical Ecology</i> , 2008, 34, 757-765.	1.8	51
24	BIOFUMIGANT COMPOUNDS RELEASED BY FIELD PENNYCRESS (<i>Thlaspi arvense</i>) SEEDMEAL. <i>Journal of Chemical Ecology</i> , 2005, 31, 167-177.	1.8	50
25	Limonoid Glucosides in Fruit, Juice and Processing by-products of Satsuma Mandarin (<i>Chus unshiu</i>) Tj ETQq1 1 0.784314 rgBT ₄₇ /Overlock	3.1	47
26	Biosynthesis of naringin and prunin in detached grapefruit. <i>Phytochemistry</i> , 1989, 28, 1627-1630.	2.9	45
27	Antioxidant Activity of Sesamol in Soybean Oil Under Frying Conditions. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2013, 90, 659-666.	1.9	41
28	Pullulan production by tropical isolates of <i>Aureobasidium pullulans</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , 2006, 34, 55-61.	3.0	39
29	Î³-Tocopherol as a Marker of Brazilian Coffee (<i>Coffea arabica</i> L.) Adulteration by Corn. <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 5995-5999.	5.2	39
30	Identification and quantification of feruloylated mono-, di-, and triacylglycerols from vegetable oils. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2006, 83, 753-758.	1.9	38
31	Extracted sweet corn tassels as a renewable alternative to peat in greenhouse substrates. <i>Industrial Crops and Products</i> , 2011, 33, 514-517.	5.2	37
32	Saponins from Soy and Chickpea: Stability during Beadmaking and in Vitro Bioaccessibility. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 6703-6710.	5.2	35
33	Quantitative NIR determination of isoflavone and saponin content of ground soybeans. <i>Food Chemistry</i> , 2020, 317, 126373.	8.2	33
34	Modern Analytical Techniques for Flavonoid Determination. <i>Advances in Experimental Medicine and Biology</i> , 2002, 505, 61-76.	1.6	33
35	Two Loci Exert Major Effects on Chlorogenic Acid Synthesis in Maize Silks. <i>Crop Science</i> , 2002, 42, 1669-1678.	1.8	32
36	Genistein Inhibits Intestinal Cell Proliferation in Piglets. <i>Pediatric Research</i> , 2005, 57, 192-200.	2.3	32

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37	A high-protein soybean cultivar contains lower isoflavones and saponins but higher minerals and bioactive peptides than a low-protein cultivar. <i>Food Chemistry</i> , 2010, 120, 15-21.	8.2	32
38	Glucosinolate content and nematicidal activity of Brazilian wild mustard tissues against <i>Meloidogyne incognita</i> in tomato. <i>Plant and Soil</i> , 2011, 341, 155-164.	3.7	32
39	Differential Activity of Multiple Saponins Against Omnivorous Insects with Varying Feeding Preferences. <i>Journal of Chemical Ecology</i> , 2011, 37, 443-449.	1.8	30
40	<i>Camelina sativa</i> Defatted Seed Meal Contains Both Alkyl Sulfinyl Glucosinolates and Quercetin That Synergize Bioactivity. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 8385-8391.	5.2	29
41	Cytochrome P450-Mediated Metabolism of Xanthotoxin by <i>Papilio multicaudatus</i> . <i>Journal of Chemical Ecology</i> , 2006, 32, 523-536.	1.8	28
42	Dinoxin B, a Withanolide from <i>Datura innoxia</i> Leaves with Specific Cytotoxic Activities. <i>Journal of Natural Products</i> , 2011, 74, 267-271.	3.0	28
43	Mate (<i>Ilex paraguariensis</i> St. Hilaire) saponins induce caspase-3-dependent apoptosis in human colon cancer cells in vitro. <i>Food Chemistry</i> , 2011, 125, 1171-1178.	8.2	28
44	Acylated flavonoids in callus cultures of <i>Citrus aurantifolia</i> . <i>Phytochemistry</i> , 1994, 36, 1225-1227.	2.9	27
45	Formulation of a biodegradable, odor-reducing cat litter from solvent-extracted corn dried distillers grains. <i>Industrial Crops and Products</i> , 2011, 34, 999-1002.	5.2	27
46	Preparation, composition and functional properties of pennycress (<i>Thlaspi arvense</i> L.) seed protein isolates. <i>Industrial Crops and Products</i> , 2014, 55, 173-179.	5.2	27
47	Dormancy-defense syndromes and tradeoffs between physical and chemical defenses in seeds of pioneer species. <i>Ecology</i> , 2018, 99, 1988-1998.	3.2	27
48	Changes in citrus leaf flavonoid concentrations resulting from blight-induced zinc-deficiency. <i>Plant Physiology and Biochemistry</i> , 2000, 38, 333-343.	5.8	26
49	Effects of early plant growth regulator treatments on flavonoid levels in grapefruit. <i>Plant Growth Regulation</i> , 2000, 30, 225-232.	3.4	26
50	Geographic Variation in Alkaloid Production in <i>Conium maculatum</i> Populations Experiencing Differential Herbivory by <i>Agonopterix alstroemeriana</i> . <i>Journal of Chemical Ecology</i> , 2005, 31, 1693-1709.	1.8	26
51	Interspecific variation in persistence of buried weed seeds follows tradeoffs among physiological, chemical, and physical seed defenses. <i>Ecology and Evolution</i> , 2016, 6, 6836-6845.	1.9	26
52	Unique Flavanol-Anthocyanin Condensed Forms in Apache Red Purple Corn. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 10844-10854.	5.2	26
53	Functionalized <i>C</i> -Glycoside Ketohydrazones: Carbohydrate Derivatives that Retain the Ring Integrity of the Terminal Reducing Sugar. <i>Analytical Chemistry</i> , 2010, 82, 2893-2899.	6.5	25
54	Yerba mate tea and mate saponins prevented azoxymethane-induced inflammation of rat colon through suppression of NF- κ B p65ser ³¹¹ signaling via I κ B α and GSK-3 β reduced phosphorylation. <i>BioFactors</i> , 2013, 39, 430-440.	5.4	24

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55	Triterpenoids from <i>Glycine max</i> decrease invasiveness and induce caspase-mediated cell death in human SNB19 glioma cells. <i>Clinical and Experimental Metastasis</i> , 2003, 20, 375-383.	3.3	23
56	Expression of a Maize Myb Transcription Factor Driven by a Putative Silk-Specific Promoter Significantly Enhances Resistance to <i>Helicoverpa zea</i> in Transgenic Maize. <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 2998-3003.	5.2	23
57	A comparison of the absorption and metabolism of the major quercetin in brassica, quercetin-3-O-sophoroside, to that of quercetin aglycone, in rats. <i>Food Chemistry</i> , 2020, 311, 125880.	8.2	23
58	Decreasing unpalatable flavonoid components in <i>Citrus</i> : the effect of transformation construct. <i>Physiologia Plantarum</i> , 2009, 137, 101-114.	5.2	22
59	Sites of Naringin Biosynthesis in Grapefruit Seedlings. <i>Journal of Plant Physiology</i> , 1991, 138, 176-179.	3.5	21
60	Antioxidant Activity and Sensory Evaluation of a Rosmarinic Acid-Enriched Extract of <i>Salvia officinalis</i> . <i>Journal of Food Science</i> , 2015, 80, C711-7.	3.1	21
61	Developmental and substrate specificity of hesperetin-7-O-glucosyltransferase activity in <i>Citrus limon</i> tissues using high-performance liquid chromatographic analysis. <i>Plant Science</i> , 1995, 112, 139-147.	3.6	20
62	Dietary Isothiocyanate Iberin Inhibits Growth and Induces Apoptosis in Human Glioblastoma Cells. <i>Journal of Pharmacological Sciences</i> , 2007, 103, 247-251.	2.5	20
63	Evaluation of alternatives to guar gum as tackifiers for hydromulch and as clumping agents for biodegradable cat litter. <i>Industrial Crops and Products</i> , 2013, 43, 798-801.	5.2	20
64	Extraction, Composition and Functional Properties of Pennycress (<i>Thlaspi arvense</i> L.) Press Cake Protein. <i>JAACS, Journal of the American Oil Chemists' Society</i> , 2015, 92, 905-914.	1.9	20
65	Development of near-infrared spectroscopy calibrations to measure quality characteristics in intact Brassicaceae germplasm. <i>Industrial Crops and Products</i> , 2016, 89, 52-58.	5.2	20
66	A malonic acid ester derivative of naringin in grapefruit. <i>Phytochemistry</i> , 1991, 30, 4198-4200.	2.9	18
67	1-Cyano-2-Hydroxy-3-Butene, A Phytotoxin From <i>Crambe</i> (<i>Crambe abyssinica</i>) Seedmeal. <i>Journal of Chemical Ecology</i> , 1998, 24, 1117-1126.	1.8	18
68	Citrus Limonoid Research: An Overview. <i>ACS Symposium Series</i> , 2000, , 1-8.	0.5	17
69	Medium-chain alkyl esters of tyrosol and hydroxytyrosol antioxidants by cuphea oil transesterification. <i>European Journal of Lipid Science and Technology</i> , 2013, 115, 363-371.	1.5	17
70	Isolating antigenotoxic components and cancer cell growth suppressors from agricultural by-products. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2001, 480-481, 109-120.	1.0	16
71	Laccase-mediator catalyzed conversion of model lignin compounds. <i>Biocatalysis and Agricultural Biotechnology</i> , 2016, 5, 111-115.	3.1	16
72	Lesquerella press cake as an organic fertilizer for greenhouse tomatoes. <i>Industrial Crops and Products</i> , 2010, 32, 164-168.	5.2	15

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73	Rosmarinic Acid Content in Antidiabetic Aqueous Extract of <i>Ocimum canum</i> Sims Grown in Ghana. <i>Journal of Medicinal Food</i> , 2012, 15, 611-620.	1.5	15
74	Comparison of the Impact of β -Oryzanol and Corn Steryl Ferulates on the Polymerization of Soybean Oil During Frying. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2012, 89, 243-252.	1.9	15
75	Biopesticide synergy when combining plant flavonoids and entomopathogenic baculovirus. <i>Scientific Reports</i> , 2020, 10, 6806.	3.3	15
76	Antioxidant Activity of Hybrid Grape Pomace Extracts Derived from Midwestern Grapes in Bulk Oil and Oil-in-Water Emulsions. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2015, 92, 1333-1348.	1.9	14
77	Enhanced pest resistance and increased phenolic production in maize callus transgenically expressing a maize chalcone isomerase-3 like gene. <i>Plant Gene</i> , 2018, 13, 50-55.	2.3	14
78	Do Bioflavonoids in <i>Juniperus virginiana</i> Heartwood Stimulate Oviposition in the Ladybird <i>Coleomegilla maculata</i> ? <i>International Journal of Insect Science</i> , 2018, 10, 117954331875840.	1.7	14
79	Response of sorghum stalk pathogens to brown midrib plants and soluble phenolic extracts from near isogenic lines. <i>European Journal of Plant Pathology</i> , 2017, 148, 941-953.	1.7	13
80	Investment in Seed Physical Defence Is Associated with Species' Light Requirement for Regeneration and Seed Persistence: Evidence from Macaranga Species in Borneo. <i>PLoS ONE</i> , 2014, 9, e99691.	2.5	13
81	Antimutagenic activity of chemical fractions isolated from a commercial soybean processing by-product. <i>Teratogenesis, Carcinogenesis, and Mutagenesis</i> , 1999, 19, 121-135.	0.8	12
82	Fusarium head blight resistance exacerbates nutritional loss of wheat grain at elevated CO ₂ . <i>Scientific Reports</i> , 2022, 12, 15.	3.3	12
83	Quinovosamycins: new tunicamycin-type antibiotics in which the β -1,1-linked N-acetylglucosamine residue is replaced by N-acetylquinovosamine. <i>Journal of Antibiotics</i> , 2016, 69, 637-646.	2.0	11
84	Utilization of Quercetin as an Oviposition Stimulant by Lab-Cultured <i>Coleomegilla maculata</i> in the Presence of Conspecifics and a Tissue Substrate. <i>Insects</i> , 2018, 9, 77.	2.2	11
85	The use of fatty acid profile as a potential marker for Brazilian coffee (<i>Coffea arabica</i> L.) for corn adulteration. <i>Journal of the Brazilian Chemical Society</i> , 2008, 19, 1462-1467.	0.6	10
86	Evaluating the Phytochemical Potential of Camelina: An Emerging New Crop of Old World Origin. , 2014, , 129-148.		10
87	Feruloylated Products from Coconut Oil and Shea Butter. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2017, 94, 397-411.	1.9	10
88	Effect of Tocopherols on the Anti-Polymerization Activity of β -Oryzanol and Corn Steryl Ferulates in Soybean Oil. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2013, 90, 1351-1358.	1.9	9
89	Comparison of composition and physical properties of soluble and insoluble navy bean flour components after jet-cooking, soaking, and cooking. <i>LWT - Food Science and Technology</i> , 2020, 130, 109765.	5.2	9
90	Limonoids in seeds of three citrus hybrids related to citrus ichangensis. <i>Phytochemistry</i> , 1994, 36, 923-925.	2.9	8

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91	Flavonoid Accumulation in Tissue and Cell Culture. <i>Advances in Experimental Medicine and Biology</i> , 1998, 439, 67-84.	1.6	8
92	Ultrahigh CO ₂ levels enhances cuphea growth and morphogenesis. <i>Industrial Crops and Products</i> , 2008, 27, 133-135.	5.2	8
93	Bioactives Derived from Ripe Corn Tassels: A Possible New Natural Skin Whitener, 4-Hydroxy-1-Oxindole-3-Acetic Acid. <i>Current Bioactive Compounds</i> , 2011, 7, 126-134.	0.5	8
94	Fiberboard Created Using the Natural Adhesive Properties of Distillers Dried Grains with Solubles. <i>BioResources</i> , 2018, 13, .	1.0	8
95	Changes in Wheat Nutritional Content at Elevated [CO ₂] Alter <i>Fusarium graminearum</i> Growth and Mycotoxin Production on Grain. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 6297-6307.	5.2	8
96	A rapid and novel method for purification of ribulose 1,5-bisphosphate carboxylase from <i>Chromatium vinosum</i> . <i>FEMS Microbiology Letters</i> , 1983, 17, 269-272.	1.8	7
97	Coconut leaf bioactivity toward generalist maize insect pests. <i>Entomologia Experimentalis Et Applicata</i> , 2011, 141, 208-215.	1.4	7
98	An odor-reducing, low dust-forming, clumping cat litter produced from Eastern red cedar (<i>Juniperus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	9.2	7
99	Quantification of Rosmarinic Acid Levels by near Infrared Spectroscopy in Laboratory Culture Grown Spearmint Plantlets. <i>Journal of Near Infrared Spectroscopy</i> , 2008, 16, 99-104.	1.5	6
100	Phenolic sucrose esters: evolution, regulation, biosynthesis, and biological functions. <i>Plant Molecular Biology</i> , 2022, 109, 369-383.	3.9	5
101	Limonoid and flavonoid composition in varieties of Papeda and Papedocitrus. <i>Biochemical Systematics and Ecology</i> , 1996, 24, 237-242.	1.3	4
102	Limonoids and the Chemotaxonomy of Citrus and the Rutaceae Family. <i>ACS Symposium Series</i> , 2000, , 212-229.	0.5	4
103	Constitutive Expression of the Maize Genes B1 and C1 in Transgenic Hi II Maize Results in Differential Tissue Pigmentation and Generates Resistance to <i>Helicoverpa zea</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 2403-2409.	5.2	4
104	Efficient bioconversion of waste bread into 2-keto-d-gluconic acid by <i>Pseudomonas reptilivora</i> NRRL B-6. <i>Biomass Conversion and Biorefinery</i> , 2020, 10, 545-553.	4.6	4
105	Growth, feeding and thyroxine-related responses of hybrid striped (sunshine) bass (<i>Morone</i>) Tj ETQq1 1 0.784314 rgBT /Overlock Nutrition, 2020, 26, 109-122.	2.7	4
106	Liposomes Loaded with Unsaponifiable Matter from <i>Amaranthus hypochondriacus</i> as a Source of Squalene and Carrying Soybean Lunasin Inhibited Melanoma Cells. <i>Nanomaterials</i> , 2021, 11, 1960.	4.1	4
107	Yerba Mate (<i>Ilex Paraguariensis</i> St. Hilaire) Saponins Inhibit Human Colon Cancer Cell Proliferation. <i>ACS Symposium Series</i> , 2012, , 307-321.	0.5	3
108	Transgenic expression of a maize geranyl geranyl transferase gene sequence in maize callus increases resistance to ear rot pathogens. <i>Agri Gene</i> , 2018, 7, 52-58.	1.9	3

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109	Stimulation of Plant Growth by (3-Methoxyphenyl)acetone Applied as a Foliar Spray In Vivo or as a Medium Amendment In Vitro. Hortscience: A Publication of the American Society for Horticultural Science, 2008, 43, 372-375.	1.0	3
110	Purification of a Sinapine-Glucoraphanin Salt from Broccoli Seeds. American Journal of Plant Sciences, 2010, 01, 113-118.	0.8	3
111	Application of near infrared spectroscopy for determination of relationship between crop year, maturity group, and location on carbohydrate composition in soybeans. Crop Science, 2021, 61, 2409.	1.8	2
112	Ultrahigh Carbon Dioxide Atmospheres Increase the Growth Rate, Morphogenesis and Naphthodianthrone Levels in St. John's Wort (<i>Hypericum perforatum</i>) Plants. Journal of Herbs, Spices and Medicinal Plants, 2003, 10, 35-46.	1.1	1
113	The Acrylation of Glycerol: A Precursor to Functionalized Lipids. JAOCS, Journal of the American Oil Chemists' Society, 2012, 89, 713-719.	1.9	1
114	Acetylthiostearates \hat{a} mass spectroscopy and NMR characterization. Journal of Sulfur Chemistry, 2020, 41, 154-169.	2.0	1
115	Isolation and Elucidation of Antiirritant and Antimicrobial Bioactives Derived From Plant Sources and From Human Sebum. Studies in Natural Products Chemistry, 2019, , 411-432.	1.8	0