

# Alireza Ghassempour

## List of Publications by Year in descending order

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115  
papers

2,984  
citations

201674

27  
h-index

197818

49  
g-index

115  
all docs

115  
docs citations

115  
times ranked

4465  
citing authors

#	ARTICLE	IF	CITATIONS
1	Antibacterial effect of silver nanoparticles on <i>Staphylococcus aureus</i> . <i>Research in Microbiology</i> , 2011, 162, 542-549.	2.1	249
2	Effect of silver nanoparticles on <i>Oryza sativa</i> L. and its rhizosphere bacteria. <i>Ecotoxicology and Environmental Safety</i> , 2013, 88, 48-54.	6.0	247
3	Proteomics study of silver nanoparticles toxicity on <i>Oryza sativa</i> L.. <i>Ecotoxicology and Environmental Safety</i> , 2014, 108, 335-339.	6.0	151
4	Aflatoxin B1 degradation by <i>Bacillus subtilis</i> UTBSP1 isolated from pistachio nuts of Iran. <i>Food Control</i> , 2012, 23, 100-106.	5.5	149
5	Bypassing Protein Corona Issue on Active Targeting: Zwitterionic Coatings Dictate Specific Interactions of Targeting Moieties and Cell Receptors. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 22808-22818.	8.0	92
6	Endogenous auxins in plant growth-promoting Cyanobacteria"Anabaena vaginicola and Nostoc calcicola. <i>Journal of Applied Phycology</i> , 2013, 25, 379-386.	2.8	86
7	Simultaneous speciation and preconcentration of ultra traces of inorganic tellurium and selenium in environmental samples by hollow fiber liquid phase microextraction prior to electrothermal atomic absorption spectroscopy determination. <i>Journal of Hazardous Materials</i> , 2010, 181, 491-496.	12.4	84
8	Plant growth promoting cyanobacteria and their distribution in terrestrial habitats of Iran. <i>Soil Science and Plant Nutrition</i> , 2013, 59, 535-547.	1.9	80
9	Analysis of anatoxin-a using polyaniline as a sorbent in solid-phase microextraction coupled to gas chromatography"mass spectrometry. <i>Journal of Chromatography A</i> , 2005, 1078, 120-127.	3.7	64
10	A targeted metabolomics approach toward understanding metabolic variations in rice under pesticide stress. <i>Analytical Biochemistry</i> , 2015, 478, 65-72.	2.4	61
11	Snake venomics of two poorly known Hydrophiinae: Comparative proteomics of the venoms of terrestrial <i>Toxicocalamus longissimus</i> and marine <i>Hydrophis cyanocinctus</i> . <i>Journal of Proteomics</i> , 2012, 75, 4091-4101.	2.4	57
12	Optimization of the extraction of paclitaxel from <i>Taxus baccata</i> L. by the use of microwave energy. <i>Journal of Separation Science</i> , 2004, 27, 1130-1136.	2.5	55
13	Isolation and characterization of <i>Stemphylium sedicola</i> SBU-16 as a new endophytic taxol-producing fungus from <i>Taxus baccata</i> grown in Iran. <i>FEMS Microbiology Letters</i> , 2012, 328, 122-129.	1.8	54
14	A comparative quality study of saffron constituents through HPLC and HPTLC methods followed by isolation of crocins and picrocrocin. <i>LWT - Food Science and Technology</i> , 2017, 84, 1-9.	5.2	52
15	<i>Viola</i> plant cyclotide vigno 5 induces mitochondria-mediated apoptosis via cytochrome C release and caspases activation in cervical cancer cells. <i>F"toterap"t</i> , 2016, 109, 162-168.	2.2	50
16	Characterizing circular peptides in mixtures: sequence fragment assembly of cyclotides from a violet plant by MALDI-TOF/TOF mass spectrometry. <i>Amino Acids</i> , 2013, 44, 581-595.	2.7	47
17	Optimization of microwave-assisted extraction for alizarin and purpurin in Rubiaceae plants and its comparison with conventional extraction methods. <i>Journal of Separation Science</i> , 2005, 28, 387-396.	2.5	45
18	Study of New Extraction Methods for Separation of Anthocyanins from Red Grape Skins: Analysis by HPLC and LC-MS/MS. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2008, 31, 2686-2703.	1.0	45

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19	The neuroprotection effect of pretreatment with olive leaf extract on brain lipidomics in rat stroke model. <i>Phytomedicine</i> , 2012, 19, 940-946.	5.3	44
20	Inhibition of the <i>Aspergillus flavus</i> Growth and Aflatoxin B1 Contamination on Pistachio Nut by Fengycin and Surfactin-Producing <i>Bacillus subtilis</i> UTBSP1. <i>Plant Pathology Journal</i> , 2016, 32, 209-215.	1.7	44
21	Proteomics study of silver nanoparticles toxicity on <i>Bacillus thuringiensis</i> . <i>Ecotoxicology and Environmental Safety</i> , 2014, 100, 122-130.	6.0	42
22	Morphology and withanolide production of <i>Withania coagulans</i> hairy root cultures. <i>Engineering in Life Sciences</i> , 2009, 9, 197-204.	3.6	41
23	Aflatoxin B1-reduction of <i>Aspergillus flavus</i> by three medicinal plants (Lamiaceae). <i>Food Control</i> , 2013, 31, 218-223.	5.5	35
24	Determination of N-vinyl-2-pyrrolidone and N-methyl-2-pyrrolidone in drugs using polypyrrole-based headspace solid-phase microextraction and gas chromatography–nitrogen-phosphorous detection. <i>Analytica Chimica Acta</i> , 2007, 587, 82-88.	5.4	34
25	Monitoring of the Pesticide Diazinon in Soil, Stem and Surface Water of Rice Fields.. <i>Analytical Sciences</i> , 2002, 18, 779-783.	1.6	33
26	Biodegradation of polycyclic aromatic hydrocarbons by a bacterial consortium enriched from mangrove sediments. <i>Journal of Environmental Health Science &amp; Engineering</i> , 2014, 12, 114.	3.0	32
27	The effects of salicylic acid and glucose on biochemical traits and taxane production in a <i>Taxus baccata</i> callus culture. <i>Plant Physiology and Biochemistry</i> , 2018, 132, 271-280.	5.8	30
28	Effect of methyl jasmonate on phenolic acids accumulation and the expression profile of their biosynthesis-related genes in <i>Mentha spicata</i> hairy root cultures. <i>Plant Cell, Tissue and Organ Culture</i> , 2020, 142, 285-297.	2.3	30
29	Speciation and determination of trace inorganic tellurium in environmental samples by electrodeposition-electrothermal atomic absorption spectroscopy. <i>Journal of Analytical Atomic Spectrometry</i> , 2009, 24, 1446.	3.0	29
30	Untargeted metabolomic profiling of seminal plasma in nonobstructive azoospermia men: A noninvasive detection of spermatogenesis. <i>Biomedical Chromatography</i> , 2017, 31, e3931.	1.7	29
31	Cyclotides Isolated from an Ipecac Root Extract Antagonize the Corticotropin Releasing Factor Type 1 Receptor. <i>Frontiers in Pharmacology</i> , 2017, 8, 616.	3.5	26
32	Improved effects of polyethylene glycol on the growth, antioxidative enzymes activity and taxanes production in a <i>Taxus baccata</i> L. callus culture. <i>Plant Cell, Tissue and Organ Culture</i> , 2019, 137, 319-328.	2.3	26
33	A bioassay-guided fractionation scheme for characterization of new antibacterial compounds from <i>Prosopis cineraria</i> aerial parts. <i>Iranian Journal of Microbiology</i> , 2016, 8, 1-7.	0.8	26
34	Monitoring of the insecticide trichlorfon by phosphorus-31 nuclear magnetic resonance ( <sup>31</sup> P NMR) spectroscopy. <i>Analytica Chimica Acta</i> , 2006, 576, 290-296.	5.4	25
35	Analysis of <i>Anabaena vaginicola</i> and <i>Nostoc calcicola</i> from Northern Iran, as rich sources of major carotenoids. <i>Food Chemistry</i> , 2013, 136, 1148-1153.	8.2	25
36	A perspective view of top-down proteomics in snake venom research. <i>Rapid Communications in Mass Spectrometry</i> , 2019, 33, 20-27.	1.5	24

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37	Chiral separation of three agrochemical toxins enantiomers by high-performance liquid chromatography on a vancomycin crystalline degradation products-chiral stationary phase. <i>Biomedical Chromatography</i> , 2007, 21, 234-240.	1.7	23
38	Monitoring of N-nitrosodiethanolamine in cosmetic products by ion-pair complex liquid chromatography and identification with negative ion electrospray ionization mass spectrometry. <i>Journal of Chromatography A</i> , 2008, 1185, 43-48.	3.7	23
39	Vancomycin degradation products as potential chiral selectors in enantiomeric separation of racemic compounds. <i>Journal of Chromatography A</i> , 2008, 1191, 182-187.	3.7	22
40	Optimization of ultrasonic assisted extraction of fatty acids from <i>Borago Officinalis</i> L. flower by central composite design. <i>Arabian Journal of Chemistry</i> , 2017, 10, S23-S27.	4.9	22
41	Comparison of pyrolysis-mass spectrometry with high performance liquid chromatography for the analysis of vancomycin in serum. <i>Talanta</i> , 2001, 55, 573-580.	5.5	20
42	Determination of citric acid in fermentation media by pyrolysis mass spectrometry. <i>Journal of Analytical and Applied Pyrolysis</i> , 2003, 70, 251-261.	5.5	20
43	Determination of residual solvents and investigation of their effect on ampicillin trihydrate crystal structure. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2005, 36, 983-988.	2.8	20
44	Seasons Study of Four Important Taxanes and Purification of 10-Deacetylbaccatin III from the Needles of <i>Taxus baccata</i> L. by Two-Dimensional Liquid Chromatography. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2009, 32, 1434-1447.	1.0	19
45	Silica microspheres from rice husk: A good opportunity for chromatography stationary phase. <i>Industrial Crops and Products</i> , 2018, 121, 236-240.	5.2	19
46	Simultaneous determination of the pesticide naptalam and its metabolites in natural water by Fourier transform infrared spectrometry. <i>Analyst</i> , The, 1999, 124, 367-371.	3.5	18
47	Integrating Top-Down and Bottom-Up Mass Spectrometric Strategies for Proteomic Profiling of Iranian Saw-Scaled Viper, <i>Echis carinatus sochureki</i> , Venom. <i>Journal of Proteome Research</i> , 2021, 20, 895-908.	3.7	17
48	Monitoring of the Fermentation Media of Citric Acid by the Trimethylsilyl Derivatives of the Organic Acids Formed. <i>Journal of Agricultural and Food Chemistry</i> , 2004, 52, 6384-6388.	5.2	16
49	Optimisation of a microwave-assisted method for extracting withaferin A from <i>Withania somnifera</i> Dunal. using central composite design. <i>Phytochemical Analysis</i> , 2010, 21, 544-549.	2.4	16
50	Two-dimensional Hydrophilic Interaction/Reversed-phase Liquid Chromatography for the Preparative Separation of Polar and Non-polar Taxanes. <i>Phytochemical Analysis</i> , 2012, 23, 164-170.	2.4	16
51	In silico studies reveal structural deviations of mutant profilin-1 and interaction with riluzole and edaravone in amyotrophic lateral sclerosis. <i>Scientific Reports</i> , 2021, 11, 6849.	3.3	16
52	Investigation of the solid state properties of amoxicillin trihydrate and the effect of powder pH. <i>AAPS PharmSciTech</i> , 2007, 8, E93.	3.3	15
53	Optimization of Microwave-Assisted Extraction for the Determination of Glycyrrhizin in Menthazin Herbal Drug by Experimental Design Methodology. <i>Chromatographia</i> , 2009, 70, 191-197.	1.3	15
54	Changes in biophysical characteristics of PFN1 due to mutation causing amyotrophic lateral sclerosis. <i>Metabolic Brain Disease</i> , 2018, 33, 1975-1984.	2.9	15

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55	Variation of Catechin, epicatechin and their enantiomers concentrations before and after wheat cultivar-Puccinia triticina infection. Food Chemistry, 2011, 125, 1287-1290.	8.2	14
56	Proteomics and Traditional Medicine: New Aspect in Explanation of Temperaments. Research in Complementary Medicine, 2014, 21, 250-253.	2.2	14
57	Microwave-assisted extraction of cyclotides from Viola ignobilis. Analytical Biochemistry, 2016, 497, 83-89.	2.4	14
58	Evaluation of hydrophilic interaction liquid chromatography stationary phases for analysis of opium alkaloids. Journal of Chromatography A, 2017, 1511, 77-84.	3.7	14
59	Characterization of a peptide family from the skin secretion of the Middle East Tree Frog <i>Hyla savignyi</i> by composition-based <i>de novo</i> sequencing. Rapid Communications in Mass Spectrometry, 2010, 24, 2885-2899.	1.5	13
60	Determination of ternary mixtures of penicillin G, benzathine and procaine by liquid chromatography and factorial design study. Talanta, 2005, 65, 1038-1044.	5.5	12
61	Analysis of Cyclotides in Viola ignobilis by Nano Liquid Chromatography Fourier Transform Mass Spectrometry. Protein and Peptide Letters, 2011, 18, 747-752.	0.9	12
62	Integrated pathway-based and network-based analysis of GC-MS rice metabolomics data under diazinon stress to infer affected biological pathways. Analytical Biochemistry, 2016, 494, 31-36.	2.4	12
63	Determination of mono- and dichloroacetic acids in betaine media by liquid chromatography. Talanta, 2006, 68, 1396-1400.	5.5	11
64	Purification of Paclitaxel Isolated from Taxus baccata L. Cell Culture by Microwave-Assisted Extraction and Two-Dimensional Liquid Chromatography. Journal of Liquid Chromatography and Related Technologies, 2007, 31, 382-394.	1.0	11
65	Crystalline degradation products of vancomycin as chiral stationary phase in microcolumn liquid chromatography. Journal of Separation Science, 2008, 31, 2339-2345.	2.5	11
66	Study of catechin, epicatechin and their enantiomers during the progression of witches' broom disease in Mexican lime (Citrus aurantifolia). Physiological and Molecular Plant Pathology, 2016, 93, 93-98.	2.5	11
67	A click tyrosine zwitterionic stationary phases for hydrophilic interaction liquid chromatography. Journal of Chromatography A, 2020, 1621, 461045.	3.7	11
68	Production of phenolic acids in hairy root cultures of medicinal plant L. in response to elicitors. Molecular Biology Research Communications, 2020, 9, 23-34.	0.3	11
69	Monitoring of enzymatic hydrolysis of penicillin G by pyrolysis-negative ion mass spectrometry. Journal of Pharmaceutical and Biomedical Analysis, 2002, 29, 569-578.	2.8	10
70	Metabolite profiling of Mexican lime (Citrus aurantifolia) leaves during the progression of witches' broom disease. Phytochemistry Letters, 2015, 13, 290-296.	1.2	10
71	Response surface methodology based on central composite design accompanied by multivariate curve resolution to model gradient hydrophilic interaction liquid chromatography: Prediction of separation for five major opium alkaloids. Journal of Separation Science, 2017, 40, 3602-3611.	2.5	10
72	Initial study of three different pathogenic microorganisms by gas chromatography-mass spectrometry. F1000Research, 2017, 6, 1415.	1.6	10

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73	Enantioseparation of mandelic acid on vancomycin column: Experimental and docking study. <i>Chirality</i> , 2020, 32, 1289-1298.	2.6	10
74	Resistant/susceptible classification of respiratory tract pathogenic bacteria based on volatile organic compounds profiling. <i>Cellular and Molecular Biology</i> , 2018, 64, 6-15.	0.9	10
75	Central composite design with the help of multivariate curve resolution in loadability optimization of RP-HPLC to scale-up a binary mixture. <i>Journal of Separation Science</i> , 2016, 39, 1031-1040.	2.5	9
76	Diagnosis of three different pathogenic microorganisms by gas chromatography-mass spectrometry. <i>F1000Research</i> , 2017, 6, 1415.	1.6	9
77	Rapid and Sensitive Determination of Cyclosporins by Pyrolysis Mass Spectrometry.. <i>Analytical Sciences</i> , 1999, 15, 457-460.	1.6	8
78	Conjugation of Single-Chain Variable Fragment Antibody to Magnetic Nanoparticles and Screening of Fig Mosaic Virus by MALDI TOF Mass Spectrometry. <i>Analytical Chemistry</i> , 2020, 92, 10460-10469.	6.5	8
79	Two Dimensional Anion Exchange-Size Exclusion Chromatography Combined with Mathematical Modeling for Downstream Processing of Foot and Mouth Disease Vaccine. <i>Journal of Chromatography A</i> , 2021, 1643, 462070.	3.7	8
80	Microcolumn LC enantioseparation of chiral compounds using diol silica gel functionalized with vancomycin crystalline degradation products. <i>Journal of Separation Science</i> , 2009, 32, 918-922.	2.5	7
81	Enantioseparation and Enantioselective Phytotoxicity of Glufosinate Ammonium on Catechin Biosynthesis in Wheat. <i>Food Analytical Methods</i> , 2014, 7, 747-753.	2.6	7
82	A comparison and column selection of Hydrophilic Interaction Liquid Chromatography and Reversed-Phase High-Performance Liquid Chromatography for detection of DNA methylation. <i>Analytical Biochemistry</i> , 2018, 557, 123-130.	2.4	7
83	A Combination of MALDI-TOF MS Proteomics and Species-Unique Biomarkers™ Discovery for Rapid Screening of Brucellosis. <i>Journal of the American Society for Mass Spectrometry</i> , 2022, 33, 1530-1540.	2.8	7
84	Isolation, Identification and Optimization of Phenanthrene Degrading Bacteria From the Coastal Sediments of Nayband Bay. <i>Jundishapur Journal of Microbiology</i> , 2013, 6, .	0.5	6
85	Simple and Sensitive Quantification of Ghrelin Hormone in Human Plasma Using SBSE-HPLC/DAD-MS. <i>Journal of Chromatographic Science</i> , 2016, 54, 1652-1660.	1.4	6
86	Recent developments in liquid chromatography-mass spectrometry analyses of ghrelin and related peptides. <i>Biomedical Chromatography</i> , 2017, 31, e3796.	1.7	6
87	Treatment of Lime Witches™ Broom Phytoplasma-Infected Mexican Lime with a Resistance Inducer and Study of Its Effect on Systemic Resistance. <i>Journal of Plant Growth Regulation</i> , 2021, 40, 1409-1421.	5.1	6
88	Mass Spectrometry: A Powerful Method for Monitoring Various Type of Leukemia, Especially MALDI-TOF in Leukemia™s Proteomics Studies Review. <i>Critical Reviews in Analytical Chemistry</i> , 2022, 52, 1259-1286.	3.5	6
89	Venom Gland Mass Spectrometry Imaging of Saw-Scaled Viper, <i>Echis carinatus sochureki</i> , at High Lateral Resolution. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 1105-1115.	2.8	6
90	Comprehensive proteomics and sialomics of the anti-proliferative activity of safranal on triple negative MDA-MB-231 breast cancer cell lines. <i>Journal of Proteomics</i> , 2022, 259, 104539.	2.4	6

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91	A New Solution for a Chronic Problem; Aqueous Enteric Coating. Journal of Pharmaceutical Sciences, 2006, 95, 2432-2437.	3.3	5
92	Isolation and sequence analysis of peptides from the skin secretion of the Middle East tree frog <i>Hyla savignyi</i> . Analytical and Bioanalytical Chemistry, 2010, 398, 2853-2865.	3.7	5
93	The use of multivariate curve resolution methods to improve the analysis of muramic acid as bacterial marker using gas chromatography-mass spectrometry: An alternative method to gas chromatography-tandem mass spectrometry. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2014, 949-950, 1-6.	2.3	5
94	Modifying superparamagnetic iron oxide and silica nanoparticles surfaces for efficient (MA)LDI-MS analyses of peptides and proteins. Rapid Communications in Mass Spectrometry, 2022, 36, e9212.	1.5	5
95	Study of the pesticide naptalam degradation; theoretical and experimental. Computational and Theoretical Chemistry, 2003, 629, 43-49.	1.5	4
96	Comparison of pyrolysis mass spectrometry with high performance liquid chromatography for the analysis of Cremophor EL in drugs and serum. Talanta, 2003, 59, 435-441.	5.5	4
97	Initial study of three different pathogenic microorganisms by gas chromatography-mass spectrometry. F1000Research, 0, 6, 1415.	1.6	4
98	Monitoring of Paclitaxel, Taxine B and 10-Deacetylbaaccatin III in <i>Taxus baccata</i> L. by Nano LC-FTMS and NMR Spectroscopy. Chromatographia, 2010, 72, 833-839.	1.3	3
99	Optimization of Tribenuron-methyl determination by differential pulse polarography using experimental design. Analytical Methods, 2010, 2, 41-48.	2.7	3
100	Bioassay Guided Fractionation of an Anti-Methicillin-Resistant <i>Staphylococcus aureus</i> Flavonoid From <i>Bromus Inermis</i> Leys Inflorescences. Jundishapur Journal of Microbiology, 2014, 7, e12739.	0.5	3
101	Optimization of throughput in semipreparative chiral liquid chromatography using stacked injection. Chirality, 2017, 29, 579-588.	2.6	3
102	Development and modeling of two-dimensional fast protein liquid chromatography for producing nonstructural protein-free foot-and-mouth disease virus vaccine. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2018, 1096, 113-121.	2.3	3
103	Serum proteome changes and accelerated reduction of fat mass after laparoscopic gastric plication in morbidly obese patients. Journal of Proteomics, 2019, 203, 103373.	2.4	3
104	Protein ion yield enhancement in matrix-assisted laser desorption/ionization mass spectrometry after sample and matrix low-pressure glow discharge plasma irradiation. Rapid Communications in Mass Spectrometry, 2021, 35, e8964.	1.5	3
105	Study of Glutathione S-transferase-P1 in cancer blood plasma after extraction by affinity magnetic nanoparticles and monitoring by MALDI-TOF, IM-Q-TOF and LC-ESI-Q-TOF MS. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2022, 1190, 123091.	2.3	3
106	Top-down thermal analysis versus bottom-up gas chromatography-mass spectrometry in an adulteration study of <i>Pistacia atlantica</i> Desf. oleoresin. Journal of Thermal Analysis and Calorimetry, 2016, 123, 2451-2457.	3.6	2
107	Improving detection of BSA protein by applying atmospheric pressure plasma jets in MALDI-TOF mass spectrometry. International Journal of Mass Spectrometry, 2021, 466, 116615.	1.5	2
108	The Effects of Titanium Oxide Nano-Particles on <i>Oryza sativa</i> L., Rice Plant. Journal of Bionanoscience, 2016, 10, 78-80.	0.4	2



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109	Data from quantitative serum proteomic analysis after laparoscopic gastric plication. Data in Brief, 2019, 25, 104077.	1.0	1
110	Detection of structural and conformational changes in ALS-causing mutant profilin-1 with hydrogen/deuterium exchange mass spectrometry and bioinformatics techniques. Metabolic Brain Disease, 2022, 37, 229-241.	2.9	1
111	Increasing DESI-MS Ion Signal by Plasma Treatment. Journal of the American Society for Mass Spectrometry, 2022, , .	2.8	1
112	A new chiral stationary phase based on noscapine: Synthesis, enantioseparation, and docking study. Chirality, 0, , .	2.6	1
113	Neuroprotective effect of Lithospermum officinale callus extract on inflamed primary microglial cells. Current Pharmaceutical Biotechnology, 2020, 21, .	1.6	0
114	Synthesis, molecular modeling and functional evaluation of a GnRH antagonist. Journal of the Iranian Chemical Society, 0, , 1.	2.2	0
115	Functional analysis ofÂrecombinant menthone menthol reductase by chiral GC and GC-MS. Industrial Crops and Products, 2022, 184, 115075.	5.2	0