

# Ahmed Mohamed Abd El-Gawad

## List of Publications by Year in descending order

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76  
papers

1,560  
citations

304602

22  
h-index

395590

33  
g-index

76  
all docs

76  
docs citations

76  
times ranked

1313  
citing authors

#	ARTICLE	IF	CITATIONS
1	Repeated applications of organic amendments promote beneficial microbiota, improve soil fertility and increase crop yield. <i>Applied Soil Ecology</i> , 2020, 156, 103714.	2.1	82
2	Phytotoxic Effects of Plant Essential Oils: A Systematic Review and Structure-Activity Relationship Based on Chemometric Analyses. <i>Plants</i> , 2021, 10, 36.	1.6	70
3	Sugarcane bagasse: a potential low-cost biosorbent for the removal of hazardous materials. <i>Clean Technologies and Environmental Policy</i> , 2017, 19, 2343-2362.	2.1	59
4	Chemical constituents, antioxidant and potential allelopathic effect of the essential oil from the aerial parts of <i>Cullen plicata</i> . <i>Industrial Crops and Products</i> , 2016, 80, 36-41.	2.5	58
5	Interspecific variation, antioxidant and allelopathic activity of the essential oil from three <i>Launaea</i> species growing naturally in heterogeneous habitats in Egypt. <i>Flavour and Fragrance Journal</i> , 2019, 34, 316-328.	1.2	53
6	Volatiles Profiling, Allelopathic Activity, and Antioxidant Potentiality of <i>Xanthium Strumarium</i> Leaves Essential Oil from Egypt: Evidence from Chemometrics Analysis. <i>Molecules</i> , 2019, 24, 584.	1.7	53
7	Essential Oil of <i>Calotropis procera</i> : Comparative Chemical Profiles, Antimicrobial Activity, and Allelopathic Potential on Weeds. <i>Molecules</i> , 2020, 25, 5203.	1.7	44
8	Antioxidant System and Biomolecules Alteration in <i>Pisum sativum</i> under Heavy Metal Stress and Possible Alleviation by 5-Aminolevulinic Acid. <i>Molecules</i> , 2019, 24, 4194.	1.7	42
9	Recent Advances in <i>Kaempferia</i> Phytochemistry and Biological Activity: A Comprehensive Review. <i>Nutrients</i> , 2019, 11, 2396.	1.7	39
10	Essential oil and its nanoemulsion of <i>Araucaria heterophylla</i> resin: Chemical characterization, anti-inflammatory, and antipyretic activities. <i>Industrial Crops and Products</i> , 2020, 148, 112272.	2.5	38
11	Sesquiterpenes-Rich Essential Oil from Above Ground Parts of <i>Pulicaria somalensis</i> Exhibited Antioxidant Activity and Allelopathic Effect on Weeds. <i>Agronomy</i> , 2020, 10, 399.	1.3	37
12	Habitat Affects the Chemical Profile, Allelopathy, and Antioxidant Properties of Essential Oils and Phenolic Enriched Extracts of the Invasive Plant <i>Heliotropium Curassavicum</i> . <i>Plants</i> , 2019, 8, 482.	1.6	36
13	Chemical Characterization of <i>Euphorbia heterophylla</i> L. Essential Oils and Their Antioxidant Activity and Allelopathic Potential on <i>Cenchrus echinatus</i> L.. <i>Chemistry and Biodiversity</i> , 2019, 16, e1900051.	1.0	35
14	Essential Oil Composition, Antioxidant and Allelopathic Activities of <i>Cleome droserifolia</i> ( <i>Forssk</i> ). <i>Delile</i> . <i>Chemistry and Biodiversity</i> , 2018, 15, e1800392.	1.0	31
15	Preponderance of Oxygenated Sesquiterpenes and Diterpenes in the Volatile Oil Constituents of <i>Lactuca serriola</i> L. Revealed Antioxidant and Allelopathic Activity. <i>Chemistry and Biodiversity</i> , 2019, 16, e1900278.	1.0	31
16	Phytotoxic and Antimicrobial Activities of <i>Teucrium polium</i> and <i>Thymus decussatus</i> Essential Oils Extracted Using Hydrodistillation and Microwave-Assisted Techniques. <i>Plants</i> , 2020, 9, 716.	1.6	30
17	Essential oil of <i>Bassia muricata</i> : Chemical characterization, antioxidant activity, and allelopathic effect on the weed <i>Chenopodium murale</i> . <i>Saudi Journal of Biological Sciences</i> , 2020, 27, 1900-1906.	1.8	30
18	Chemical composition variations, allelopathic, and antioxidant activities of <i>Symphytotrichum squamatum</i> (Spreng.) Nesom essential oils growing in heterogeneous habitats. <i>Arabian Journal of Chemistry</i> , 2020, 13, 4237-4245.	2.3	29

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19	Ecology and allelopathic control of <i>Brassica tournefortii</i> in reclaimed areas of the Nile Delta, Egypt. Turkish Journal of Botany, 2014, 38, 347-357.	0.5	28
20	Faster N Release, but Not C Loss, From Leaf Litter of Invasives Compared to Native Species in Mediterranean Ecosystems. Frontiers in Plant Science, 2018, 9, 534.	1.7	28
21	Comparative Chemical Profiles of the Essential Oils from Different Varieties of <i>Psidium guajava</i> L.. Molecules, 2021, 26, 119.	1.7	28
22	Chemical Profiles, Anticancer, and Anti-Aging Activities of Essential Oils of <i>Pluchea dioscoridis</i> (L.) DC. and <i>Erigeron bonariensis</i> L.. Plants, 2021, 10, 667.	1.6	27
23	Essential Oil Enriched with Oxygenated Constituents from Invasive Plant <i>Argemone ochroleuca</i> Exhibited Potent Phytotoxic Effects. Plants, 2020, 9, 998.	1.6	26
24	UPLC-qTOF-MS Phytochemical Profile and Antiulcer Potential of <i>Cyperus conglomeratus</i> Rottb. Alcoholic Extract. Molecules, 2020, 25, 4234.	1.7	25
25	Topical Wound Healing Activity of Myricetin Isolated from <i>Tecomaria capensis</i> v. <i>aurea</i> . Molecules, 2020, 25, 4870.	1.7	22
26	Decomposition and organic amendments chemistry explain contrasting effects on plant growth promotion and suppression of <i>Rhizoctonia solani</i> damping off. PLoS ONE, 2020, 15, e0230925.	1.1	22
27	Allelopathic Activity and Chemical Composition of <i>Rhynchosia minima</i> (L.) DC. Essential Oil from Egypt. Chemistry and Biodiversity, 2018, 15, e1700438.	1.0	21
28	Chemical Profile of <i>Launaea nudicaulis</i> Ethanolic Extract and Its Antidiabetic Effect in Streptozotocin-Induced Rats. Molecules, 2021, 26, 1000.	1.7	21
29	Windstorm disturbance triggers multiple species invasion in an urban Mediterranean forest. IForest, 2018, 11, 64-71.	0.5	21
30	Chemical Composition of the Essential Oil of <i>Trianthema portulacastrum</i> L. Aerial Parts and Potential Antimicrobial and Phytotoxic Activities of its Extract. Journal of Essential Oil-bearing Plants: JEOP, 2016, 19, 1684-1692.	0.7	20
31	Protective Mechanism of <i>Acacia saligna</i> Butanol Extract and Its Nano-Formulations against Ulcerative Colitis in Rats as Revealed via Biochemical and Metabolomic Assays. Biology, 2020, 9, 195.	1.3	20
32	Euphosantianane C: Three New Premyrsinane Type Diterpenoids from <i>Euphorbia sanctae-catharinae</i> with Contribution to Chemotaxonomy. Molecules, 2019, 24, 2412.	1.7	18
33	Mixtures of organic amendments and biochar promote beneficial soil microbiota and affect <i>Fusarium oxysporum</i> f. sp. <i>lactucae</i> , <i>Rhizoctonia solani</i> and <i>Sclerotinia minor</i> disease suppression. Plant Pathology, 2022, 71, 818-829.	1.2	18
34	Ecology and development of <i>Mesembryanthemum crystallinum</i> L. in the Deltaic Mediterranean coast of Egypt. Egyptian Journal of Basic and Applied Sciences, 2014, 1, 29-37.	0.2	17
35	Comparing chemistry and bioactivity of burned vs. decomposed plant litter: different pathways but same result?. Ecology, 2018, 99, 158-171.	1.5	17
36	Microbiota modulation of allelopathy depends on litter chemistry: Mitigation or exacerbation?. Science of the Total Environment, 2021, 776, 145942.	3.9	17

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37	Interspecific variations in the habitats of <i>Reichardia tingitana</i> (L.) Roth leading to changes in its bioactive constituents and allelopathic activity. <i>Saudi Journal of Biological Sciences</i> , 2020, 27, 489-499.	1.8	16
38	Prevalence of Diterpenes in Essential Oil of <i>Euphorbia mauritanica</i> L.: Detailed Chemical Profile, Antioxidant, Cytotoxic and Phytotoxic Activities. <i>Chemistry and Biodiversity</i> , 2021, 18, e2100238.	1.0	16
39	Chemical Composition of <i>Kickxia aegyptiaca</i> Essential Oil and Its Potential Antioxidant and Antimicrobial Activities. <i>Plants</i> , 2022, 11, 594.	1.6	16
40	Anti-inflammatory, Antipyretic, and Antinociceptive Effects of a <i>Cressa cretica</i> Aqueous Extract. <i>Planta Medica</i> , 2017, 83, 1313-1320.	0.7	15
41	Nutritional Value, Mineral Composition, Secondary Metabolites, and Antioxidant Activity of Some Wild Geophyte Sedges and Grasses. <i>Plants</i> , 2019, 8, 569.	1.6	15
42	Specific microbiome signatures under the canopy of Mediterranean shrubs. <i>Applied Soil Ecology</i> , 2022, 173, 104407.	2.1	15
43	Hydrochemical Assessment of the Irrigation Water Quality of the El-Salam Canal, Egypt. <i>Water (Switzerland)</i> , 2021, 13, 2428.	1.2	14
44	Essential Oil of <i>Deverra tortuosa</i> Aerial Parts: Detailed Chemical Profile, Allelopathic, Antimicrobial, and Antioxidant Activities. <i>Chemistry and Biodiversity</i> , 2021, 18, e2000914.	1.0	13
45	Chemical Composition, Allelopathic, Antioxidant, and Anti-Inflammatory Activities of Sesquiterpenes Rich Essential Oil of <i>Cleome amblyocarpa</i> Barratte & Murb.. <i>Plants</i> , 2021, 10, 1294.	1.6	13
46	A contribution to the ecology and floristic markers of plant associations in different habitats of Sinai Peninsula, Egypt. <i>Rendiconti Lincei</i> , 2014, 25, 479-490.	1.0	12
47	Ecological Risk Assessment of Heavy Metals along Three Main Drains in Nile Delta and Potential Phytoremediation by Macrophyte Plants. <i>Plants</i> , 2020, 9, 910.	1.6	12
48	Biochar-derived smoke-water exerts biological effects on nematodes, insects, and higher plants but not fungi. <i>Science of the Total Environment</i> , 2021, 750, 142307.	3.9	12
49	Cytoprotective potentialities of carvacrol and its nanoemulsion against cisplatin-induced nephrotoxicity in rats: development of nano-encapsulation form. <i>Heliyon</i> , 2022, 8, e09198.	1.4	12
50	Influence of the invasive shrub <i>Nicotiana glauca</i> Graham on the plant seed bank in various locations in Taif region, western of Saudi Arabia. <i>Saudi Journal of Biological Sciences</i> , 2021, 28, 360-370.	1.8	11
51	<i>Persicaria lapathifolia</i> Essential Oil: Chemical Constituents, Antioxidant Activity, and Allelopathic Effect on the Weed <i>Echinochloa colona</i> . <i>Plants</i> , 2021, 10, 1798.	1.6	11
52	Impact of prescribed burning, mowing and abandonment on a Mediterranean grassland: A 5-year multi-kingdom comparison. <i>Science of the Total Environment</i> , 2022, 834, 155442.	3.9	11
53	Cytotoxic and chemotaxonomic study of isolated metabolites from <i>Centaurea aegyptiaca</i> . <i>Journal of the Chinese Chemical Society</i> , 2021, 68, 159-168.	0.8	10
54	Extraction development for antimicrobial and phytotoxic essential oils from asteraceae species: <i>Achillea fragrantissima</i> , <i>Artemisia judaica</i> and <i>Tanacetum sinaicum</i> . <i>Flavour and Fragrance Journal</i> , 2021, 36, 352-364.	1.2	10

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55	Gastro-protective effect of <i>Artemisia Sieberi</i> essential oil against ethanol-induced ulcer in rats as revealed via biochemical, histopathological and metabolomics analysis. <i>Biomarkers</i> , 2022, 27, 247-257.	0.9	10
56	Arbuscular Mycorrhizal Fungi Isolated from Highly Saline "Sabkha Habitat" Soil Alleviated the NaCl-Induced Stress and Improved <i>Lasiurus scindicus</i> Henr. Growth. <i>Agriculture (Switzerland)</i> , 2022, 12, 337.	1.4	10
57	Infection by <i>Plicosepalus curviflorus</i> mistletoe affects the nutritional elements of <i>Acacia</i> species and soil nutrient recycling in an arid rangeland. <i>Plant Ecology</i> , 2020, 221, 1017-1028.	0.7	9
58	Vegetation Composition of the Halophytic Grass <i>Aeluropus lagopoides</i> Communities within Coastal and Inland Sabkhas of Saudi Arabia. <i>Plants</i> , 2022, 11, 666.	1.6	9
59	Fluctuation of Essential Oil Constituents in <i>Origanum syriacum</i> subsp. <i>sinaicum</i> in Response to Plant Growth Promoting Bacteria. <i>Journal of Essential Oil-bearing Plants: JEOP</i> , 2019, 22, 1022-1033.	0.7	8
60	<i>Calligonum polygonoides</i> L. Shrubs Provide Species-Specific Facilitation for the Understory Plants in Coastal Ecosystem. <i>Biology</i> , 2020, 9, 232.	1.3	8
61	Phytotoxicity of three <i>Plantago</i> species on germination and seedling growth of hairy beggarticks ( <i>Bidens pilosa</i> L.). <i>Egyptian Journal of Basic and Applied Sciences</i> , 2015, 2, 303-309.	0.2	7
62	Functional Traits Plasticity of the Invasive Herb <i>Argemone ochroleuca</i> Sweet in Different Arid Habitats. <i>Plants</i> , 2020, 9, 1268.	1.6	7
63	Taxonomic Implication of Integrated Chemical, Morphological, and Anatomical Attributes of Leaves of Eight Apocynaceae Taxa. <i>Diversity</i> , 2020, 12, 334.	0.7	7
64	Moisture and Salinity Drive the Vegetation Composition of Wadi Hargan, Riyadh, Saudi Arabia. <i>Diversity</i> , 2021, 13, 587.	0.7	7
65	Native Perennial Plants Colonizing Abandoned Arable Fields in a Desert Area: Population Structure and Community Assembly. <i>Agriculture (Switzerland)</i> , 2020, 10, 550.	1.4	6
66	Proximate Composition, Bioactive Compounds, and Antioxidant Potential of Wild Halophytes Grown in Coastal Salt Marsh Habitats. <i>Molecules</i> , 2022, 27, 28.	1.7	6
67	Essential Oils Constituents of Aerial Parts of <i>Cyperus capitatus</i> L. and <i>Cyperus difformis</i> L. Grown Wild in Egypt. <i>Journal of Essential Oil-bearing Plants: JEOP</i> , 2017, 20, 1659-1665.	0.7	5
68	Does a plant detect its neighbor if it is kin or stranger? Evidence from a common garden experiment. <i>Community Ecology</i> , 2017, 18, 305-310.	0.5	5
69	Microbiota Management for Effective Disease Suppression: A Systematic Comparison between Soil and Mammals Gut. <i>Sustainability</i> , 2021, 13, 7608.	1.6	5
70	Comparative Chemical Profiles and Phytotoxic Activity of Essential Oils of Two Ecospecies of <i>Pulicaria undulata</i> (L.) C.A.Mey. <i>Plants</i> , 2021, 10, 2366.	1.6	5
71	Micropropagation of licorice ( <i>Glycyrrhiza glabra</i> L.) by using intermediate nodal explants. <i>Chilean Journal of Agricultural Research</i> , 2020, 80, 326-333.	0.4	5
72	Wild Plant Habitat Characterization in the Last Two Decades in the Nile Delta Coastal Region of Egypt. <i>Agriculture (Switzerland)</i> , 2022, 12, 108.	1.4	5

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73	Root System Architecture Plasticity of Bread Wheat in Response to Oxidative Burst under Extended Osmotic Stress. <i>Plants</i> , 2021, 10, 939.	1.6	4
74	Effect of Compost and Titanium Dioxide Application on the Vegetative Yield and Essential Oil Composition of Coriander. <i>Sustainability</i> , 2022, 14, 322.	1.6	3
75	Impacts of <i>Nicotiana glauca</i> Graham Invasion on the Vegetation Composition and Soil: A Case Study of Taif, Western Saudi Arabia. <i>Plants</i> , 2021, 10, 2587.	1.6	2
76	Influence of <i>Datura stramonium</i> Leaf Extract on Antioxidants and Activities of Metabolic Enzymes of <i>Trigonella foenum-graecum</i> and <i>Lepidium</i> . <i>International Journal of Current Research and Academic Review</i> , 2018, 6, 1-11.	0.1	0