

A systematic review on black pepper *(Piper nigrum)*
pharmacological applications

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Citation Report

#	ARTICLE	IF	CITATIONS
2	Plant-Derived Alkaloids: The Promising Disease-Modifying Agents for Inflammatory Bowel Disease. <i>Frontiers in Pharmacology</i> , 2019, 10, 351.	1.6	79
3	PipeNig [®] -FL, a Fluid Extract of Black Pepper (<i>Piper Nigrum</i> L.) with a High Standardized Content of Trans- ¹² -Caryophyllene, Reduces Lipid Accumulation in 3T3-L1 Preadipocytes and Improves Glucose Uptake in C2C12 Myotubes. <i>Nutrients</i> , 2019, 11, 2788.	1.7	23
4	A piperic acid CoA ligase produces a putative precursor of piperine, the pungent principle from black pepper fruits. <i>Plant Journal</i> , 2020, 102, 569-581.	2.8	16
5	Antioxidant and anti-inflammatory effects of piperine on UV-B-irradiated human HaCaT keratinocyte cells. <i>Life Sciences</i> , 2020, 263, 118607.	2.0	32
6	Overview of the Anticancer Potential of the "King of Spices" Piper nigrum and Its Main Constituent Piperine. <i>Toxins</i> , 2020, 12, 747.	1.5	30
7	Essential oil-based nanostructures for inflammation and rheumatoid arthritis. <i>Journal of Drug Delivery Science and Technology</i> , 2020, 60, 101983.	1.4	9
8	Pipercyclobutanamide D, a new member of the cyclobutanamide-type alkaloid, from the roots of Piper nigrum. <i>Journal of Asian Natural Products Research</i> , 2020, 23, 1-7.	0.7	1
9	Piperine Regulates Nrf-2/Keap-1 Signalling and Exhibits Anticancer Effect in Experimental Colon Carcinogenesis in Wistar Rats. <i>Biology</i> , 2020, 9, 302.	1.3	25
10	<i>In silico</i> screening of hundred phytochemicals of ten medicinal plants as potential inhibitors of nucleocapsid phosphoprotein of COVID-19: an approach to prevent virus assembly. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021, 39, 7017-7034.	2.0	69
11	Identification of potential inhibitors of SARS-CoV-2 main protease and spike receptor from 10 important spices through structure-based virtual screening and molecular dynamic study. <i>Journal of Biomolecular Structure and Dynamics</i> , 2022, 40, 941-962.	2.0	43
12	Cardiovascular protective effect of black pepper (<i>Piper nigrum</i> L.) and its major bioactive constituent piperine. <i>Trends in Food Science and Technology</i> , 2021, 117, 34-45.	7.8	18
13	Identification of the metabolites of piperine via hepatocyte incubation and liquid chromatography combined with diode array detection and high-resolution mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2020, 34, e8947.	0.7	8
14	Study on enhanced serum protein protecting and anti-cathepsin activities of various curcumin formulations containing traditional excipients and bio-enhancers. <i>Bioorganic Chemistry</i> , 2020, 104, 104177.	2.0	5
15	Switchable hydrophilicity solvent liquid-liquid microextraction versus dispersive liquid-liquid microextraction prior to HPLC-UV for the determination and isolation of piperine from <i>Piper nigrum</i> L. <i>Journal of Separation Science</i> , 2020, 43, 3053-3060.	1.3	5
16	Herbal formulation "turmeric extract, black pepper, and ginger" versus Naproxen for chronic knee osteoarthritis: A randomized, double-blind, controlled clinical trial. <i>Phytotherapy Research</i> , 2020, 34, 2067-2073.	2.8	60
17	Bioactive Natural Compounds and Antioxidant Activity of Essential Oils from Spice Plants: New Findings and Potential Applications. <i>Biomolecules</i> , 2020, 10, 988.	1.8	207
18	Selective in vivo molecular and cellular biocompatibility of black peppercorns by piperine-protein intrinsic atomic interaction with elicited oxidative stress and apoptosis in zebrafish eleuthero embryos. <i>Ecotoxicology and Environmental Safety</i> , 2020, 192, 110321.	2.9	20
19	Piperine Inhibits TGF- ¹² Signaling Pathways and Disrupts EMT-Related Events in Human Lung Adenocarcinoma Cells. <i>Medicines (Basel, Switzerland)</i> , 2020, 7, 19.	0.7	21

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20	Identification of the stable and reactive metabolites of tetrahydropiperine using ultrahigh-performance liquid chromatography combined with diode-array detection and high-resolution mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2021, 35, e8975.	0.7	11
21	Alginate hydrogels: Sustained release system to analyze the effect of traditional excipients on curcumin availability. <i>Bioorganic Chemistry</i> , 2021, 107, 104513.	2.0	10
22	Applications of Phenolic Antioxidants. , 2021, , 385-411.		1
23	Introduction to nutraceuticals, medicinal foods, and herbs. , 2021, , 1-34.		4
24	Potential of Plant Growth-Promoting Microbes in Disease Reduction by Influencing the Antioxidant Enzymes of Medicinal and Spice Plants. , 2021, , 221-250.		1
25	Piperlongumine attenuates angiotensin-II-induced cardiac hypertrophy and fibrosis by inhibiting Akt-FoxO1 signalling. <i>Phytomedicine</i> , 2021, 82, 153461.	2.3	14
26	<sc><i>Piper nigrum</i></sc> extract attenuates food allergy by decreasing Th2 cell response and regulating the Th17/Treg balance. <i>Phytotherapy Research</i> , 2021, 35, 3214-3225.	2.8	7
27	LC-HRMS/MS-based phytochemical profiling of Piper spices: Global association of piperamides with endocannabinoid system modulation. <i>Food Research International</i> , 2021, 141, 110123.	2.9	11
28	Phytochemical Analysis and Determination of the Chemical Composition of Larvicidal Extracts of Black Pepper (<i>Piper</i> <i>nigrum</i> L.) Waste: An Undergraduate Chemistry Experiment. <i>Journal of Chemical Education</i> , 2021, 98, 1397-1403.	1.1	2
29	Anxiolytic and antidepressant-like effects of essential oil from the fruits of Piper nigrum Linn. (Black) Tj ETQq1 1 0.784314 rgBT /Overbo e06884.	1.4	13
30	Global survey of medicinal plants during lactation and postpartum recovery: Evolutionary perspectives and contemporary health implications. <i>Journal of Ethnopharmacology</i> , 2021, 270, 113812.	2.0	14
31	Pepper as Analgesic and Anti-inflammatory Alternative and Bio-enhancer Agent for Treatment of Pain. <i>Proceedings of the National Academy of Sciences India Section B - Biological Sciences</i> , 2021, 91, 487-493.	0.4	1
32	Identification and characterization of piperine synthase from black pepper, Piper nigrum L.. <i>Communications Biology</i> , 2021, 4, 445.	2.0	19
33	Antiviral and Immunity-modulating Natural Herbs in the Prevention of COVID-19. <i>Research Journal of Pharmacognosy and Phytochemistry</i> , 2021, , 81-94.	0.1	6
34	Preparation and Characterization of Mucoadhesive Nanoemulsion containing Piperine for Nasal Drug Delivery System. <i>Research Journal of Pharmacy and Technology</i> , 2021, , 2381-2386.	0.2	3
35	Effect of topical application of black pepper essential oil on peripheral intravenous catheter insertion: A randomized controlled study. <i>Explore: the Journal of Science and Healing</i> , 2022, 18, 457-462.	0.4	6
36	The Effect of a Traditional Preparation Containing Piper nigrum L. and Bunium persicum (Boiss.) B.Fedtsch. on Immobility Stress-Induced Memory Loss in Mice. <i>BioMed Research International</i> , 2021, 2021, 1-8.	0.9	5
37	Pre-conditioning of Mesenchymal Stem Cells with Piper longum L. augments osteogenic differentiation. <i>Journal of Ethnopharmacology</i> , 2021, 273, 113999.	2.0	6

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38	Ethnopharmacological Survey on Treatment of Hypertension by Traditional Healers in Bukavu City, DR Congo. Evidence-based Complementary and Alternative Medicine, 2021, 2021, 1-10.	0.5	9
39	Herbal plants as immunity modulators against COVID-19: A primary preventive measure during home quarantine. Journal of Herbal Medicine, 2022, 32, 100501.	1.0	18
40	Anti-bacterial activity of Annona muricata Linnaeus extracts: a systematic review. Food Science and Technology, 0, 42, .	0.8	5
41	Piper multinodum C.DC. (Piperaceae) essential oils chemical variation and biological activity against Mycobacterium tuberculosis. Journal of Medicinal Plants Research, 2021, 15, 413-422.	0.2	3
42	Nutraceuticals and Herbs in Reducing the Risk and Improving the Treatment of COVID-19 by Targeting SARS-CoV-2. Biomedicines, 2021, 9, 1266.	1.4	22
43	Green synthesis of antibacterial and cytotoxic silver nanoparticles by Piper nigrum seed extract and development of antibacterial silver based chitosan nanocomposite. International Journal of Biological Macromolecules, 2021, 189, 18-33.	3.6	56
44	Growth of black pepper plantlets under different substrates and irrigation levels. Scientia Agricola, 2022, 79, .	0.6	2
45	Amide alkaloids characterization and neuroprotective properties of Piper nigrum L.: A comparative study with fruits, pericarp, stalks and leaves. Food Chemistry, 2022, 368, 130832.	4.2	20
46	Secondary Metabolic Profile as a Tool for Distinction and Characterization of Cultivars of Black Pepper (Piper nigrum L.) Cultivated in Pará State, Brazil. International Journal of Molecular Sciences, 2021, 22, 890.	1.8	14
47	Characterization of Phosphate Solubilising Bacteria Isolated from Rhizosphere Soils of Piper nigrum L.. Biotechnology, 2021, 20, 15-21.	0.5	0
48	Natural Piperine Improves Lipid Metabolic Profile of High-Fat Diet-Fed Mice by Upregulating SR-B1 and ABCG8 Transporters. Journal of Natural Products, 2021, 84, 373-381.	1.5	9
49	Phytochemicals in the Prevention and Cure of Cancers. , 2020, , 351-373.		4
50	Insights into the Phytochemical and Multifunctional Biological Profile of Spices from the Genus Piper. Antioxidants, 2021, 10, 1642.	2.2	8
51	Genome-Wide Identification and Functional Exploration of SBP-Box Gene Family in Black Pepper (Piper) Tj ETQq1 1 0,784314,rgBT /Over	1.0	1
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53	Comparison of medicinal preparations of Ayurveda in India and five traditional medicines in China. Journal of Ethnopharmacology, 2022, 284, 114775.	2.0	8
54	Herbal spices-based therapeutics for diabetic patients with COVID-19 infection: A review. , 2021, 2, 32-51.		4
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57	COVID-19: an In Silico Analysis on Potential Therapeutic Uses of Trikadu as Immune System Boosters. <i>Applied Biochemistry and Biotechnology</i> , 2022, 194, 291-301.	1.4	5
58	Plant extracts as nutrient enhancers. , 2022, , 143-164.		0
59	Molecular and pharmacological aspects of piperine as a potential molecule for disease prevention and management: evidence from clinical trials. <i>Beni-Suef University Journal of Basic and Applied Sciences</i> , 2022, 11, 16.	0.8	49
60	Synergistic antimicrobial and antibiofilm activities of piperic acid and 4-ethylpiperic acid amides in combination with ciprofloxacin. <i>Journal of Antibiotics</i> , 2022, 75, 236-242.	1.0	5
61	Viphyllin TM , a Standardized Black Pepper Seed Extract Exerts Antinociceptive Effects in Murine Pain Models via Activation of Cannabinoid Receptor CB2, Peroxisome Proliferator-Activated Receptor-Alpha and TRPV1 Ion Channels. <i>Journal of Pain Research</i> , 2022, Volume 15, 355-366.	0.8	3
62	Quality assessment and Analytical Quality by Design-based RP-HPLC method development for quantification of Piperine in Piper nigrum L.. <i>Future Journal of Pharmaceutical Sciences</i> , 2022, 8, .	1.1	7
64	Bioprospecting Plant Growth Promoting Rhizobacteria for Enhancing the Biological Properties and Phytochemical Composition of Medicinally Important Crops. <i>Molecules</i> , 2022, 27, 1407.	1.7	29
65	Phytoconstituents of traditional Himalayan Herbs as potential inhibitors of Human Papillomavirus (HPV-18) for cervical cancer treatment: An In silico Approach. <i>PLoS ONE</i> , 2022, 17, e0265420.	1.1	15
66	Piperlongumine Inhibits Titanium Particles-Induced Osteolysis, Osteoclast Formation, and RANKL-Induced Signaling Pathways. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2868.	1.8	7
67	Health benefits of spices in individuals with chemotherapeutic drug-induced cardiotoxicity. <i>Current Opinion in Pharmacology</i> , 2022, 63, 102187.	1.7	4
68	Phytotoxicity assessment of synthesized green nanosuspension on germination and growth in <i>Vigna radiata</i> . <i>Inorganic and Nano-Metal Chemistry</i> , 0, , 1-8.	0.9	5
69	Antibacterial Mechanism of 3-Carene against the Meat Spoilage Bacterium <i>Pseudomonas lundensis</i> and Its Application in Pork during Refrigerated Storage. <i>Foods</i> , 2022, 11, 92.	1.9	7
70	THE KEY TO STRONG IMMUNITY: LIFESTYLE. , 0, , .		0
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73	Piperine Provides Neuroprotection against Kainic Acid-Induced Neurotoxicity via Maintaining NGF Signalling Pathway. <i>Molecules</i> , 2022, 27, 2638.	1.7	11
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75	VETERÄ°NER FARMAKOLOJÄ° VE TOKSÄ°KOLOJÄ°â€™DE META-ANALÄ°Z, SÄ°STEMATÄ°K DERLEME VE HIZLI DERLEME. Veteriner Farmakoloji Ve Toksikoloji DerneÄ°i BÄ°lteni, 0, , .	0.1	0
76	Integrative Medicine in the Treatment of COVID-19: An Indian Perspective. Current Traditional Medicine, 2023, 9, .	0.1	2
77	Effect of Black Pepper (Piper nigrum) Extract on Caffeine-Induced Sleep Disruption and Excitation in Mice. Nutrients, 2022, 14, 2249.	1.7	4
78	Ethnobotanical Knowledge on Herbs and Spices in Bulgarian Traditional Dry-Cured Meat Products. Diversity, 2022, 14, 416.	0.7	1
79	A Contemporary Exploration of Traditional Indian Snake Envenomation Therapies. Tropical Medicine and Infectious Disease, 2022, 7, 108.	0.9	2
80	InÂvitro anti-clostridial action and potential of the spice herbs essential oils to prevent biofilm formation of hypervirulent Clostridioides difficile strains isolated from hospitalized patients with CDI. Anaerobe, 2022, 76, 102604.	1.0	2
81	Molecular Action of Herbal Medicine in Physiology of Erektion and its Dysfunction. BIO Web of Conferences, 2022, 49, 02002.	0.1	0
82	<scp>Viphyllinâ„¢</scp> , a standardized extract from black pepper seeds, mitigates intestinal inflammation, oxidative stress, and anxietyâ€™like behavior in <scp>DSS</scp> â€™induced colitis mice. Journal of Food Biochemistry, 2022, 46, .	1.2	4
83	Evaluation of Antioxidant and Antibacterial Activities of Bubble Belly Massage Oil and their Crude Ingredients. Journal of Experimental Biology and Agricultural Sciences, 2022, 10, 607-618.	0.1	0
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89	Hydrodistillation of essential oil from the whole black pepper and light berries black pepper (Piper) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 analyses of essential components. AIP Conference Proceedings, 2022, , .	0.3	0
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92	Preparation of <i>Black pepper (Piper nigrum L.)</i> essential oil nanoparticles and its antitumor activity on triple negative breast cancer in vitro. Journal of Food Biochemistry, 2022, 46, .	1.2	3
93	Spices Volatilomic Fingerprintingâ€™A Comprehensive Approach to Explore Its Authentication and Bioactive Properties. Molecules, 2022, 27, 6403.	1.7	4

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97	Nanoencapsulation: A New Way of Using Herbs and Spices in Food and Its Related Products. <i>Reviews in Agricultural Science</i> , 2022, 10, 288-303.	0.9	1
98	The bioactive amide alkaloids from the stems of <i>Piper nigrum</i> . <i>Food Chemistry</i> , 2023, 405, 134736.	4.2	1
99	Critical Review on Nutritional, Bioactive, and Medicinal Potential of Spices and Herbs and Their Application in Food Fortification and Nanotechnology. <i>Applied Biochemistry and Biotechnology</i> , 2023, 195, 1319-1513.	1.4	22
100	Combination of curcumin and piperine synergistically improves pain-like behaviors in mouse models of pain with no potential CNS side effects. <i>Chinese Medicine</i> , 2022, 17, .	1.6	5
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102	Enhanced nutraceutical functions of herbal oily extract employing formulation technology: The present and future. <i>PharmaNutrition</i> , 2022, 22, 100318.	0.8	0
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106	LOW PREVALENCE OF COVID-19 IN LAOS AND CAMBODIA: DOES DIET PLAY A ROLE?. <i>Acta Medica Leopoliensia</i> , 2022, 28, 161-180.	0.0	0
107	Neuroprotective Effects of Black Pepper and Its Bioactive Compounds in Age-Related Neurological Disorders. , 2023, 14, 750.		9
108	Nephroprotective effects of <i>Piper nigrum</i> extracts against monosodium glutamate-induced renal toxicity in rats. <i>Scientific African</i> , 2023, 19, e01453.	0.7	0
109	Supercritical CO ₂ extraction of spices: A systematic study with focus on terpenes and piperamides from black pepper (<i>Piper nigrum</i> L.). <i>Food Chemistry</i> , 2023, 406, 135090.	4.2	4
110	Trikatu, a Thai Ayurvedic Remedy of <i>Piper nigrum</i> , <i>Piper retrofractum</i> , and <i>Zingiber officinale</i> Promotes Anti-cholangiocarcinoma Cell Proliferation via Cell Cycle Arrest. <i>Revista Brasileira De Farmacognosia</i> , 0, , .	0.6	1
111	Novel Bisamide Alkaloids Enantiomers from Pepper Roots (<i>Piper nigrum</i> L.) with Acetylcholinesterase Inhibitory and Anti-Neuroinflammatory Effects. <i>Journal of Agricultural and Food Chemistry</i> , 2022, 70, 15487-15498.	2.4	4

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113	Chemical Profile and Biological Activities of Fungal Strains Isolated from <i>Piper nigrum</i> Roots: Experimental and Computational Approaches. <i>Chemistry and Biodiversity</i> , 2023, 20, .	1.0	3
115	Black Pepper (<i>Piper nigrum</i>) for Tobacco Withdrawal: A Case Report. <i>Case Reports in Psychiatry</i> , 2022, 2022, 1-4.	0.2	1
116	Exploring the Chemical Space of Kawakawa Leaf (<i>Piper excelsum</i>). <i>Nutrients</i> , 2022, 14, 5168.	1.7	1
117	Impact of Dietary Supplementation of Spice Extracts on Growth Performance, Nutrient Digestibility and Antioxidant Response in Broiler Chickens. <i>Animals</i> , 2023, 13, 250.	1.0	5
118	Sustainable Isolation and Application of Plant Extract-Based Natural Dye for Bio-Dyeing of Silk Fabric. <i>Coatings</i> , 2023, 13, 112.	1.2	6
119	Preliminary Phytochemical Screening and Antioxidant Activity of Commercial <i>Moringa oleifera</i> Food Supplements. <i>Antioxidants</i> , 2023, 12, 110.	2.2	6
120	Indian Traditional Medicine for COVID-19. <i>Current Traditional Medicine</i> , 2023, 9, .	0.1	1
121	Nutritional Values and Therapeutical Effects of Mediterranean Herbs, Spices, and Medicinal Plants. , 0, , .		1
122	Edible Plant Extracts against <i>Aedes aegypti</i> and Validation of a <i>Piper nigrum</i> L. Ethanollic Extract as a Natural Insecticide. <i>Molecules</i> , 2023, 28, 1264.	1.7	1
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126	In vitro antioxidant, anti-inflammatory, and anticancer activities of mixture Thai medicinal plants. <i>BMC Complementary Medicine and Therapies</i> , 2023, 23, .	1.2	8
127	<i>Homo medicus</i> : The transition to meat eating increased pathogen pressure and the use of pharmacological plants in <i>Homo</i> . <i>American Journal of Biological Anthropology</i> , 2023, 180, 589-617.	0.6	4
128	Effects of <i>Piper nigrum</i> L. Fruit Essential Oil Toxicity against Stable Fly (Diptera: Muscidae). <i>Plants</i> , 2023, 12, 1043.	1.6	2
129	Bergamotenes: A comprehensive compile of their natural occurrence, biosynthesis, toxicity, therapeutic merits and agricultural applications. <i>Critical Reviews in Food Science and Nutrition</i> , 0, , 1-20.	5.4	1
130	Chemical composition, antimicrobial and antioxidant activities of essential oils isolated from black (<i>Piper nigrum</i> L.) and cubeb pepper (<i>Piper cubeba</i> L.) fruits from the Serbian market. <i>Journal of Essential Oil Research</i> , 2023, 35, 262-273.	1.3	4

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131	Molecular dynamics and absolute binding free energy studies of piperine derivatives as potential inhibitors of SARS-CoV-2 main protease. <i>Journal of Biomolecular Structure and Dynamics</i> , 2023, 41, 13696-13706.	2.0	3
132	An Introduction to Wild Food Plants for Zero Hunger and Resilient Agriculture. , 2023, , 1-41.		0
133	Yield response factor (Ky) and initial growth in black pepper in a tropical environment. <i>Scientia Agricola</i> , 0, 80, .	0.6	0
134	Inactivation mechanisms of atmospheric pressure plasma jet on <i>Bacillus cereus</i> spores and its application on low-water activity foods. <i>Food Research International</i> , 2023, 169, 112867.	2.9	6
136	Plant-Based Metabolites and Their Uses in Nanomaterials Synthesis: An Overview. , 2023, , 1-22.		2
145	Phytochemical Studies of <i>Piper nigrum</i> L. <i>Advances in Medical Diagnosis, Treatment, and Care</i> , 2023, , 31-48.	0.1	0
149	Indian spices and their bioactives in neurological disorders. , 2023, , 541-575.		0
150	Anti-Inflammatory Agents From Common Spices. <i>Advances in Medical Diagnosis, Treatment, and Care</i> , 2023, , 275-296.	0.1	0
163	Recent Advances on the Discovery of Plants Derived Bioactive Scaffolds/Extracts Against Parasitic Diseases. , 2023, , 1-22.		0
178	Traditional Herbs, Spices, and Plants as a Source of Novel Antibiofilm Compounds. <i>Advances in Medical Diagnosis, Treatment, and Care</i> , 2024, , 47-77.	0.1	0