High-performance liquid chromatography--two wavelength detection of triterpenoid acids from the fruits of Ziziphus jujuba containing various cultivars in different regions and classification using chemometric analys

DOI: 10.1016/j.jpba.2009.03.006
Journal of Pharmaceutical and Biomedical Analysis, 2009, 49, 1296-302.

#	Paper	IF	Citations
74	Current Awareness in Phytochemical Analysis. *Phytochemical Analysis*, **2010**, 21, 210-217	3.4	
73	Variation of oleanolic and ursolic acid in the flesh of persimmon fruit among different cultivars. *Molecules*, **2010**, 15, 6580-7	4.8	28
72	Characterization of nucleosides and nucleobases in fruits of Ziziphus jujuba by UPLC-DAD-MS. *Journal of Agricultural and Food Chemistry*, **2010**, 58, 10774-80	5.7	63
71	The UHPLC-DAD fingerprinting method for analysis of extracellular metabolites of fungi of the genus Geosmithia (Acomycota: Hypocreales). *Analytical and Bioanalytical Chemistry*, **2011**, 400, 2943-52	4.4	2
70	Species classification and quality assessment of Chaihu (Radix Bupleuri) based on high-performance liquid chromatographic fingerprint and combined chemometrics methods. *Archives of Pharmacal Research*, **2011**, 34, 961-9	6.1	25
69	UHPLC-TOFMS coupled with chemometric method as a powerful technique for rapid exploring of differentiating components between two Ziziphus species. *Journal of Separation Science*, **2011**, 34, 659-66	3.4	23
68	Simultaneous qualitative and quantitative analysis of triterpenic acids, saponins and flavonoids in the leaves of two Ziziphus species by HPLC-PDA-MS/ELSD. *Journal of Pharmaceutical and Biomedical Analysis*, **2011**, 56, 264-70	3.5	67
67	BINARY DETECTOR FINGERPRINTS ANALYSIS OF ZIZIPHUS JUJUBA AND ZIZIPHUS JUJUBA VAR. SPINOSA BY HPLC-DAD-ELSD COUPLED WITH CHEMOMETRIC METHOD. *Journal of Liquid Chromatography and Related Technologies*, **2011**, 34, 2048-2062	1.3	1
66	Herbaceous peony (Paeonia lactiflora Pall.) as an alternative source of oleanolic and ursolic acids. *International Journal of Molecular Sciences*, **2011**, 12, 655-67	6.3	10
65	Anti-inflammatory, immunomodulatory, and heme oxygenase-1 inhibitory activities of ravan napas, a formulation of uighur traditional medicine, in a rat model of allergic asthma. *Evidence-based Complementary and Alternative Medicine*, **2011**, 2011,	2.3	23
64	Recent Progress of Research on Herbal Products Used in Traditional Chinese Medicine: the Herbs belonging to The Divine Husbandman's Herbal Foundation Canon (Shn Nng Bn Co Jng). *Journal of Traditional and Complementary Medicine*, **2012**, 2, 6-26	4.6	32
63	A sensitive and efficient method for simultaneous trace detection and identification of triterpene acids and its application to pharmacokinetic study. *Talanta*, **2012**, 98, 101-11	6.2	17
62	Antiproliferation of melanoma cells by polysaccharide isolated from Zizyphus jujuba. *Nutrition*, **2012**, 28, 98-105	4.8	54
61	Differentiation of genuine Inula britannica L. and substitute specimens based on the determination of 15 components using LC-MS/MS and principal components analysis. *Food Chemistry*, **2013**, 141, 4019-25	8.5	22
60	The jujube (Ziziphus jujuba Mill.) fruit: a review of current knowledge of fruit composition and health benefits. *Journal of Agricultural and Food Chemistry*, **2013**, 61, 3351-63	5.7	295
59	Ziziphus jujuba. **2013**, 578-604		3
58	Methods for Analysis of Triterpenoid Saponins. **2013**, 3311-3323		1

57	Rapid determination of amino acids in fruits of Ziziphus jujuba by hydrophilic interaction ultra-high-performance liquid chromatography coupled with triple-quadrupole mass spectrometry. *Journal of Agricultural and Food Chemistry*, **2013**, 61, 2709-19	5.7	89
56	Validated high-performance thin-layer chromatographic method for the quantification of betulinic acid from two Indian plants of the species Dillenia and Ziziphus. *Journal of Planar Chromatography - Modern TLC*, **2013**, 26, 331-335	0.9	4
55	Oleanolic Acid and Ursolic Acid in Commercial Dried Fruits. *Food Science and Technology Research*, **2013**, 19, 113-116	0.8	15
54	Functional components in Zizyphus with emphasis on polysaccharides. **2014**, 1-28		1
53	Chemometrics: A new scenario in herbal drug standardization. *Journal of Pharmaceutical Analysis*, **2014**, 4, 223-233	14	88
52	Chemometrics tools used in analytical chemistry: an overview. *Talanta*, **2014**, 123, 186-99	6.2	219
51	Synthesis of A-Pentacyclic Triterpene [illegible]Alkenenitriles. *Chemistry of Natural Compounds*, **2014**, 49, 1059-1066	0.7	14
50	Phytochemical analysis of Chinese commercial Ziziphus jujube leaf tea using high performance liquid chromatography[illegible]electrospray ionization-time of flight mass spectrometry. *Food Research International*, **2014**, 56, 47-54	7	29
49	Characterization of nucleobases and nucleosides in the fruit of Alpinia oxyphylla collected from different cultivation regions. *Drug Testing and Analysis*, **2014**, 6, 239-45	3.5	14
48	Simultaneous HPLC determination of pomolic, ursolic and euscaphic/tormentic acids in roots and rhizomes of variousPotentillaspecies. *Acta Chromatographica*, **2014**, 26, 97-110	1.5	6
47	Polysaccharide Isolated from Zizyphus jujuba (H[illegible]g Z[illegible]) Inhibits Interleukin-2 Production in Jurkat T Cells. *Journal of Traditional and Complementary Medicine*, **2014**, 4, 132-5	4.6	10
46	Contents Changes of Triterpenic Acids, Nucleosides, Nucleobases, and Saccharides in Jujube (Ziziphus jujuba) Fruit During the Drying and Steaming Process. *Molecules*, **2015**, 20, 22329-40	4.8	19
45	Ziziphus jujuba Mill. ?? (Dazao, Common Jujube). **2015**, 561-567		1
44	Simultaneous determination of four active components in (Sam.) Juz. by HPLC-DAD using a single reference standard. *Journal of Pharmaceutical Analysis*, **2015**, 5, 85-92	14	14
43	Analysis of three types of triterpenoids in tetraploid white birches (Betula platyphylla Suk.) and selection of plus trees. *Journal of Forestry Research*, **2015**, 26, 623-633	2	7
42	Functional Components in Zizyphus with Emphasis on Polysaccharides. **2015**, 795-827		1
41	Content variations of triterpenic acid, nucleoside, nucleobase, and sugar in jujube (Ziziphus jujuba) fruit during ripening. *Food Chemistry*, **2015**, 167, 468-74	8.5	67
40	Physico-chemical, nutritional, and volatile composition and sensory profile of Spanish jujube (Ziziphus jujuba Mill.) fruits. *Journal of the Science of Food and Agriculture*, **2016**, 96, 2682-91	4.3	62

39	Cytotoxic Ceanothane- and Lupane-Type Triterpenoids from the Roots of Ziziphus jujuba. *Journal of Natural Products*, **2016**, 79, 2364-75	4.9	23
38	Spatio-Temporal Variation of Terpenoids in Wild Plants of Pentalinon andrieuxii. *Chemistry and Biodiversity*, **2016**, 13, 1521-1526	2.5	3
37	Phytochemical Constituents and Health Benefits of Jujubes. *Functional Foods & Nutraceuticals Series*, **2016**, 145-165		
36	Postharvest Treatments Affecting Storage Quality of Chinese Jujubes. *Functional Foods & Nutraceuticals Series*, **2016**, 271-316		1
35	Bioactive Compounds from Ziziphus jujuba and Allied Species. *Functional Foods & Nutraceuticals Series*, **2016**, 35-52		1
34	Differentiation of two types of pu-erh teas by using an electronic nose and ultrasound-assisted extraction-dispersive liquid–liquid microextraction-gas chromatography-mass spectrometry. *Analytical Methods*, **2016**, 8, 593-604	3.2	16
33	Prophetic medicine as potential functional food elements in the intervention of cancer: A review. *Biomedicine and Pharmacotherapy*, **2017**, 95, 614-648	7.5	26
32	Comparative analysis of 15 chemical constituents in Scutellaria baicalensis stem-leaf from different regions in China by ultra-high performance liquid chromatography with triple quadrupole tandem mass spectrometry. *Journal of Separation Science*, **2017**, 40, 3570-3581	3.4	20
31	An invivo study on the hepato-protective effects of Crocus sativus, Ziziphus jujuba and Berberis vulgaris against acute acetaminophen and rifampicin-induced hepatotoxicity. *Clinical Phytoscience*, **2017**, 2,	2.4	4
30	Protective Effect of Flavonoids from Ziziphus jujuba cv. Jinsixiaozao against Acetaminophen-Induced Liver Injury by Inhibiting Oxidative Stress and Inflammation in Mice. *Molecules*, **2017**, 22,	4.8	32
29	Bioactive Fraction of Bark (or) Root Bark along with Insulin Attenuates Painful Diabetic Neuropathy through Inhibiting NF-B Inflammatory Cascade. *Frontiers in Cellular Neuroscience*, **2017**, 11, 73	6.1	11
28	Review: DNA Barcoding and Chromatography Fingerprints for the Authentication of Botanicals in Herbal Medicinal Products. *Evidence-based Complementary and Alternative Medicine*, **2017**, 2017, 1352948	2.3	19
27	Simultaneous determination of five triterpenic acids in four Corydalis herb medicines by reversed-phase high performance liquid chromatography–fluorescence-mass spectrometer (RP-HPLC–FLD-MS) based on pre-column derivatization. *Journal of Liquid Chromatography and Related Technologies*, **2018**, 41, 49-57	1.3	0
26	Implementation of chemometrics in quality evaluation of food and beverages. *Critical Reviews in Food Science and Nutrition*, **2018**, 58, 1747-1766	11.5	29
25	Anti-Inflammatory, Anti-Bacterial and Anti-Diarrhoeal Activity of Fruit Extract. *Open Access Macedonian Journal of Medical Sciences*, **2018**, 6, 757-766	1	11
24	Anti-inflammatory and cytotoxic activities of constituents isolated from the fruits of Ziziphus jujuba var. inermis Rehder. *Fitoterapia*, **2019**, 137, 104261	3.2	7
23	Chemoprofiling and Marker Analysis for Quality Evaluation of Herbal Drugs. **2019**, 481-513		
22	Simultaneous determination of eight flavonoids in Sedum sarmentosum Bunge from different areas by UHPLC with triple quadrupole MS/MS. *Biomedical Chromatography*, **2019**, 33, e4601	1.7	4

21	Control of Fungal Diseases and Increase in Yields of a Cultivated Jujube Fruit (Zizyphus jujuba Miller var. inermis Rehder) Orchard by Employing Lysobacter antibioticus HS124. *Forests*, **2019**, 10, 1146	2.8	6
20	Bound polyphenol extracted from jujube pulp triggers mitochondria-mediated apoptosis and cell cycle arrest of HepG2 cell in vitro and in vivo. *Journal of Functional Foods*, **2019**, 53, 187-196	5.1	5
19	Ziziphus jujube protects against cisplatin-induced nephrotoxicity in rats. *Comparative Clinical Pathology*, **2020**, 29, 321-326	0.9	1
18	Ursonic acid exerts inhibitory effects on matrix metalloproteinases via ERK signaling pathway. *Chemico-Biological Interactions*, **2020**, 315, 108910	5	10
17	Therapeutic Potential of Ursonic Acid: Comparison with Ursolic Acid. *Biomolecules*, **2020**, 10,	5.9	11
16	Determination of Chromosome Number and Genetic Diversity using SSR and RAPD Markers in Ziziphus jujuba Mill.. **2021**, 45, 77-89		1
15	Ziziphus jujuba Mill., a plant used as medicinal food: a review of its phytochemistry, pharmacology, quality control and future research. *Phytochemistry Reviews*, **2021**, 20, 507-541	7.7	3
14	Role of exogenous melatonin involved in phenolic metabolism of Zizyphus jujuba fruit. *Food Chemistry*, **2021**, 341, 128268	8.5	15
13	Phenolic profile of jujube fruit subjected to gut microbiota fermentation and its antioxidant potential against ethyl carbamate-induced oxidative damage. *Journal of Zhejiang University: Science B*, **2021**, 22, 397-409	4.5	3
12	Genus Ziziphus for the treatment of chronic inflammatory diseases. *Saudi Journal of Biological Sciences*, **2021**, 28, 6897-6914	4	5
11	Triterpenoids from Ziziphus jujuba induce apoptotic cell death in human cancer cells through mitochondrial reactive oxygen species production. *Food and Function*, **2018**, 9, 3895-3905	6.1	20
10	Betulinic Acid from Bark Using Focused Microwave-Assisted Extraction and Response Surface Methodology. *Pharmacognosy Magazine*, **2017**, 13, 226-229	0.8	3
9	"Ziziphus jujuba": A red fruit with promising anticancer activities. *Pharmacognosy Reviews*, **2015**, 9, 99-106	2.4	41
8	Approaches and Advances in the Resources Chemistry of Chinese Medicinal Material. *Chinese Journal of Natural Medicines*, **2010**, 7, 333-340	2.8	2
7	Anti-Inflammatory, Antiulcer and Anticancer Activities of Saponin Isolated from the Fruits of Ziziphus jujuba. *Natural Products Journal*, **2020**, 10, 395-399	0.6	1
6	Recent Advances in Standardization of Herbal Drugs. *Current Traditional Medicine*, **2020**, 6, 278-299	0.8	0
5	Metabolite and Gene Expression Analysis Underlying Temporal and Spatial Accumulation of Pentacyclic Triterpenoids in Jujube. *Genes*, **2022**, 13, 823	4.2	3
4	A method for tracing the six geographical indication (GI) jujube species by crude polysaccharide characterization. *Chemical and Biological Technologies in Agriculture*, **2022**, 9,	4.4	

3	Biological Activity and Chemical Composition of Jujuba (Ziziphus jujuba) Fruit.	0
2	Transcription Factors ZjMYB39 and ZjMYB4 Regulate Farnesyl Diphosphate Synthase- and Squalene Synthase-Mediated Triterpenoid Biosynthesis in Jujube. **2023**, 71, 4599-4614	0
1	Triterpenoids in Jujube: A Review of Composition, Content Diversity, Pharmacological Effects, Synthetic Pathway, and Variation during Domestication. **2023**, 12, 1501	0