Rakesh Jaiswal

List of Publications by Citations

45 papers	1,731 citations	26 h-index	41 g-index
45 ext. papers	1,945 ext. citations	4.6 avg, IF	4.86 L-index

#	Paper	IF	Citations
45	Profiling and characterization by LC-MSn of the chlorogenic acids and hydroxycinnamoylshikimate esters in mat (Ilex paraguariensis). *Journal of Agricultural and Food Chemistry*, **2010**, 58, 5471-84	5.7	168
44	Profile and characterization of the chlorogenic acids in green Robusta coffee beans by LC-MS(n): identification of seven new classes of compounds. *Journal of Agricultural and Food Chemistry*, **2010**, 58, 8722-37	5.7	126
43	Determination of the hydroxycinnamate profile of 12 members of the Asteraceae family. *Phytochemistry*, **2011**, 72, 781-90	4	110
42	Identification and characterization of proanthocyanidins of 16 members of the Rhododendron genus (Ericaceae) by tandem LC-MS. *Journal of Mass Spectrometry*, **2012**, 47, 502-15	2.2	101
41	Understanding the fate of chlorogenic acids in coffee roasting using mass spectrometry based targeted and non-targeted analytical strategies. *Food and Function*, **2012**, 3, 976-84	6.1	81
40	Identification of phenolic compounds in plum fruits (Prunus salicina L. and Prunus domestica L.) by high-performance liquid chromatography/tandem mass spectrometry and characterization of varieties by quantitative phenolic fingerprints. *Journal of Agricultural and Food Chemistry*, **2013**, 61, 12020-31	5.7	79
39	Identification and characterization of chlorogenic acids, chlorogenic acid glycosides and flavonoids from Lonicera henryi L. (Caprifoliaceae) leaves by LC-MSn. *Phytochemistry*, **2014**, 108, 252-63	4	78
38	Characterization and quantification of hydroxycinnamate derivatives in Stevia rebaudiana leaves by LC-MSn. *Journal of Agricultural and Food Chemistry*, **2011**, 59, 10143-50	5.7	65
37	Hierarchical scheme for liquid chromatography/multi-stage spectrometric identification of 3,4,5-triacyl chlorogenic acids in green Robusta coffee beans. *Rapid Communications in Mass Spectrometry*, **2010**, 24, 2283-94	2.2	58
36	How to identify and discriminate between the methyl quinates of chlorogenic acids by liquid chromatography-tandem mass spectrometry. *Journal of Mass Spectrometry*, **2011**, 46, 269-81	2.2	55
35	Identification and characterization of five new classes of chlorogenic acids in burdock (Arctium lappa L.) roots by liquid chromatography/tandem mass spectrometry. *Food and Function*, **2011**, 2, 63-71	6.1	53
34	How to distinguish between feruloyl quinic acids and isoferuloyl quinic acids by liquid chromatography/tandem mass spectrometry. *Rapid Communications in Mass Spectrometry*, **2010**, 24, 1575-82	2.2	51
33	Profiling the chlorogenic acids of Rudbeckia hirta, Helianthus tuberosus, Carlina acaulis and Symphyotrichum novae-angliae leaves by LC-MS(n). *Phytochemical Analysis*, **2011**, 22, 432-41	3.4	50
32	The inhibition of the mammalian DNA methyltransferase 3a (Dnmt3a) by dietary black tea and coffee polyphenols. *BMC Biochemistry*, **2011**, 12, 16	4.8	49
31	Investigating the chemical changes of chlorogenic acids during coffee brewing: conjugate addition of water to the olefinic moiety of chlorogenic acids and their quinides. *Journal of Agricultural and Food Chemistry*, **2012**, 60, 12105-15	5.7	47
30	Investigation of acyl migration in mono- and dicaffeoylquinic acids under aqueous basic, aqueous acidic, and dry roasting conditions. *Journal of Agricultural and Food Chemistry*, **2014**, 62, 9160-70	5.7	41
29	What is under the hump? Mass spectrometry based analysis of complex mixtures in processed food--lessons from the characterisation of black tea thearubigins, coffee melanoidines and caramel. *Food and Function*, **2013**, 4, 1130-47	6.1	40

28	Profiling and characterisation by liquid chromatography/multi-stage mass spectrometry of the chlorogenic acids in Gardeniae Fructus. *Rapid Communications in Mass Spectrometry*, **2010**, 24, 3109-20	2.2	40
27	Scope and limitations of principal component analysis of high resolution LC-TOF-MS data: the analysis of the fraction in green coffee beans as a case study. *Analytical Methods*, **2011**, 3, 144-155	3.2	37
26	Neuraminidase inhibition of Dietary chlorogenic acids and derivatives - potential antivirals from dietary sources. *Food and Function*, **2016**, 7, 2052-9	6.1	32
25	Identification and characterization of two new derivatives of chlorogenic acids in Arnica (Arnica montana L.) flowers by high-performance liquid chromatography/tandem mass spectrometry. *Journal of Agricultural and Food Chemistry*, **2011**, 59, 4033-9	5.7	31
24	How to distinguish between cinnamoylshikimate esters and chlorogenic acid lactones by liquid chromatography-tandem mass spectrometry. *Journal of Mass Spectrometry*, **2011**, 46, 933-42	2.2	31
23	LC-MSn identification and characterization of the phenolic compounds from the fruits of Flacourtia indica (Burm. F.) Merr. and Flacourtia inermis Roxb.. *Food Research International*, **2014**, 62, 388-396	7	30
22	Hierarchical key for the LC-MSn identification of all ten regio- and stereoisomers of caffeoylglucose. *Journal of Agricultural and Food Chemistry*, **2014**, 62, 9252-65	5.7	30
21	Does roasted coffee contain chlorogenic acid lactones or/and cinnamoylshikimate esters?. *Food Research International*, **2014**, 61, 214-227	7	30
20	Identification and characterisation of the phenolics of Ilex glabra L. Gray (Aquifoliaceae) leaves by liquid chromatography tandem mass spectrometry. *Phytochemistry*, **2014**, 106, 141-155	4	27
19	Identification and characterization of the phenolic glycosides of Lagenaria siceraria Stand. (bottle gourd) fruit by liquid chromatography-tandem mass spectrometry. *Journal of Agricultural and Food Chemistry*, **2014**, 62, 1261-71	5.7	25
18	Investigation of the photochemical changes of chlorogenic acids induced by ultraviolet light in model systems and in agricultural practice with Stevia rebaudiana cultivation as an example. *Journal of Agricultural and Food Chemistry*, **2015**, 63, 3338-47	5.7	21
17	Identification, characterization, isolation and activity against Escherichia coli of quince (Cydonia oblonga) fruit polyphenols. *Food Research International*, **2014**, 65, 121-129	7	20
16	Differentiation of prototropic ions in regioisomeric caffeoyl quinic acids by electrospray ion mobility mass spectrometry. *Rapid Communications in Mass Spectrometry*, **2015**, 29, 675-80	2.2	19
15	Phenolic promiscuity in the cell nucleus--epigallocatechingallate (EGCG) and theaflavin-3,3Ъdigallate from green and black tea bind to model cell nuclear structures including histone proteins, double stranded DNA and telomeric quadruplex DNA. *Food and Function*, **2013**, 4, 328-37	6.1	16
14	Identification and characterisation of phenolics from Ixora coccinea L. (Rubiaceae) by liquid chromatography multi-stage mass spectrometry. *Phytochemical Analysis*, **2014**, 25, 567-76	3.4	15
13	First diastereoselective synthesis of methyl caffeoyl- and feruloyl-muco-quinates. *Organic and Biomolecular Chemistry*, **2012**, 10, 5266-77	3.9	15
12	Which spectroscopic technique allows the best differentiation of coffee varieties: comparing principal component analysis using data derived from CD-, NMR- and IR-spectroscopies and LC-MS in the analysis of the chlorogenic acid fraction in green coffee beans. *Analytical Methods*, **2014**, 6, 3268	3.2	13
11	Synthesis, Structure, and Tandem Mass Spectrometric Characterization of the Diastereomers of Quinic Acid. *Journal of Agricultural and Food Chemistry*, **2016**, 64, 7298-306	5.7	11

10	Profiling and Quantification of Regioisomeric Caffeoyl Glucoses in Berry Fruits. *Journal of Agricultural and Food Chemistry*, **2018**, 66, 1096-1104	5.7	7
9	Analysis of Chlorogenic Acids and Other Hydroxycinnamates in Food, Plants, and Pharmacokinetic Studies **2012**, 461-510		7
8	Hill coefficients of dietary polyphenolic enzyme inhibitiors: can beneficial health effects of dietary polyphenols be explained by allosteric enzyme denaturing?. *Journal of Chemical Biology*, **2011**, 4, 109-16		6
7	LC-MS study of the chemical transformations of hydroxycinnamates during yerba mat (Ilex paraguariensis) tea brewing. *Food Research International*, **2016**, 90, 307-312	7	5
6	Assignment of Regio- and Stereochemistry of Natural Products Using Mass Spectrometry Chlorogenic Acids and Derivatives as a Case Study. *Studies in Natural Products Chemistry*, **2014**, 42, 305-339	1.5	5
5	Profiling and quantification of regioisomeric caffeoyl glucoses in Solanaceae vegetables. *Food Chemistry*, **2017**, 237, 659-666	8.5	3
4	Energy resolved mass spectrometry of chlorogenic acids and its application to isomer quantification by direct infusion tandem mass spectrometry. *Phytochemical Analysis*, **2018**, 29, 406-412	3.4	3
3	Identification and Characterization of Hydroxycinnamates of Six Galium Species from the Rubiaceae Family **2014**, 1-20		
2	Identification and Characterization of Trimeric Proanthocyanidins of Two Members of the Rhododendron Genus (Ericaceae) by Liquid Chromatography Multi-Stage Mass Spectrometry **2014**, 1-18		
1	The Inhibition of the Mammalian DNA Methyltransferase 3a (Dnmt3a) by Dietary Black Tea and Coffee Polyphenols **2015**, 213-231		