

## Top 10 most cited in 2021 (for articles published in 2019-2020)

| Review Article   |   |        |         |      |                     |
|--|---|--------|---------|------|---------------------|
| Article Title  | Authors   | Volume | Page    | Year | Number of Citations |
| The current application of nanotechnology in food and agriculture  | He, Xiaojia; Deng, Hua; Hwang, Huey-min   | 27     | 1-21    | 2019 | 88                  |
| Next generation probiotics in disease amelioration   | Chang, Chih-Jung; Lin, Tzu-Lung; Tsai, Yu-Ling; Wu, Tsung-Ru; Lai, Wei-Fan; Lu, Chia-Chen; Lai, Hsin-Chih       | 27     | 615-622 | 2019 | 46                  |
| Revisit gut microbiota and its impact on human health and disease  | Ding, Rui-xue; Goh, Wei-Rui; Wu, Ri-na; Yue, Xi-qing; Luo, Xue; Khine, Wei Wei Thwe; Wu, Jun-rui; Lee, Yuan-Kun | 27     | 62-631  | 2019 | 41                  |
| Current status of MALDI-TOF mass spectrometry in clinical microbiology   | Hou, Tsung-Yun; Chuan Chiang-Ni; Teng, Shih-Hua   | 27     | 404-414 | 2019 | 40                  |
| Healthy expectations of high hydrostatic pressure treatment in food processing industry                        | Huang, Hsiao-Wen; Hsu, Chiao-Ping; Wang, Chung-Yi   | 28     | 1-13    | 2020 | 35                  |
| Psychobiotics in mental health, neurodegenerative and neurodevelopmental disorders                             | Cheng, Li-Hao; Liu, Yen-Wenn; Wu, Chien-Chen; Wang, Sabrina; Tsai, Ying-Chieh                                   | 27     | 632-648 | 2019 | 25                  |
| Gas chromatography-mass spectrometry-based analytical strategies for fatty acid analysis in biological samples | Chiu, Huai-Hsuan; Kuo, Ching-Hua  | 28     | 60-73   | 2020 | 20                  |
| Recent advances in cancer chemoprevention with phytochemicals  | Koh, Yen-Chun; Ho, Chi-Tang; Pan, Min-Hsiung  | 28     | 14-37   | 2020 | 15                  |
| Analytical methods for cholesterol quantification  | Li, Li-Hua; Dutkiewicz, Ewelina P.; Huang, Ying-Chen; Zhou, Hsin-Bai; Hsu, Cheng-Chih                           | 27     | 375-386 | 2019 | 13                  |
| Potential prebiotics and their transmission mechanisms: Recent approaches                                      | Khangwal, Ishu; Shukla, Pratyosh  | 27     | 649-656 | 2019 | 13                  |
| Applications of cyclic peptide nanotubes (cPNTs)   | Hsieh, Wei-Hsien; Liaw, Jiahong   | 27     | 32-47   | 2019 | 9                   |

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| The regulation of drug-metabolizing enzymes and membrane transporters by inflammation: Evidences in inflammatory diseases and age-related disorders | Wu, Kuo-Chen; Lin, Chun-Jung | 27     | 48-59 | 2019 | 9                   |

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| Original Article  |   |        |         |      |                     |
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| Article Title   | Authors   | Volume | Page    | Year | Number of Citations |
| Quercetin facilitates cell death and chemosensitivity through RAGE/PI3K/AKT/mTOR axis in human pancreatic cancer cells                        | Lan, Chieh-Yu; Chen, Sheng-Yi; Kuo, Chia-Wen; Lu, Chi-Cheng; Yen, Gow-Chin  | 27     | 887-896 | 2019 | 31                  |
| rGO-NS SERS-based coupled chemometric prediction of acetamiprid residue in green tea  | Hassan, Md Mehedi; Chen, Quansheng; Kutsanedzie, Felix Y. H.; Li, Huanhuan; Zareef, Muhammad; Xu, Yi; Yang, Mingxiu; Agyekum, Akwasi A.   | 27     | 145-153 | 2019 | 15                  |
| Raman spectroscopy coupled with chemometric methods for the discrimination of foreign fats and oils in cream and yogurt                       | Karacaglar, Nazife Nur Yazgan; Bulat, Tugba; Boyaci, Ismail Hakki; Topcu, Ali   | 27     | 101-110 | 2019 | 13                  |
| In vitro alpha-amylase and pancreatic lipase inhibitory activity of <i>Cornus mas</i> L. and <i>Cornus alba</i> L. fruit extracts             | Swierczewska, Anita; Buchholz, Tina; Melzig, Matthias F.; Czerwinska, Monika E.   | 27     | 249-258 | 2019 | 13                  |
| Glycoproteomic identification of novel plasma biomarkers for oral cancer  | Chang, Shu-Chieh; Lin, Wei-Ling; Chang, Yin-Fan; Lee, Chih-Ting; Wu, Jin-Shang; Hsu, Pang-Hung; Chang, Chuan-Fa   | 27     | 483-493 | 2019 | 13                  |
| A nutraceutical extract from <i>Inula viscosa</i> leaves: UHPLC-HR-MS/MS based polyphenol profile, and antioxidant and cytotoxic activities   | Brahmi-Chendouh, Nabila; Piccolella, Simona; Crescente, Giuseppina; Pacifico, Francesca; Boulekbache, Lila; Hamri-Zeghichi, Sabrina; Akkal, Salah; Madani, Khodir; Pacifico, Severina | 27     | 692-702 | 2019 | 13                  |
| Development and validation of a new analytical HPLC method for simultaneous determination of the antidiabetic drugs, metformin and gliclazide | Gedawy, Ahmed; Al-Salami, Hani; Dass, Crispin R.  | 27     | 315-322 | 2019 | 11                  |

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| Viola cornuta and Viola x wittrockiana: Phenolic compounds, antioxidant and neuroprotective activities on Caenorhabditis elegans          | Moliner, Cristina; Barros, Lillian; Dias, Maria Ines; Reigada, Ines; Ferreira, Isabel C. F. R.; Lopez, Victor; Langa, Elisa; Gomez Rincon, Carlota | 27     | 849-859 | 2019 | 11                  |
| Measuring serum total and free indoxyl sulfate and p-cresyl sulfate in chronic kidney disease using UPLC-MS/MS                            | Lin, Chia-Ni; Wu, I-Wen; Huang, Yun-Fen; Peng, Shu-Yu; Huang, Ya-Ching; Ning, Hsiao-Chen   | 27     | 502-509 | 2019 | 9                   |
| Encapsulation of babchi essential oil into microsponges: Physicochemical properties, cytotoxic evaluation and anti-microbial activity     | Wadhwa, Geetika; Kumar, Sunil; Mittal, Vineet; Rao, Rekha  | 27     | 60-70   | 2019 | 8                   |
| Multivariate optimization of mebeverine analysis using molecularly imprinted polymer electrochemical sensor based on silver nanoparticles | Nezhadali, Azizollah; Bonakdar, Golnar Ahmadi  | 27     | 305-314 | 2019 | 8                   |
| Using ambient mass spectrometry and LC-MS/MS for the rapid detection and identification of multiple illicit street drugs                  | Chiang, Chien-Hua; Lee, Hei-Hwa; Chen, Bai-Hsiun; Lin, Yi-Ching; Chao, Yu-Ying; Huang, Yeou-Lih  | 27     | 439-450 | 2019 | 8                   |
| Effects of heat treatment of mandarin peel on flavonoid profiles and lipid accumulation in 3T3-L1 adipocytes                              | Sung, Jeehye; Suh, Joon Hyuk; Wang, Yu   | 27     | 729-735 | 2019 | 8                   |
| Determination of polycyclic aromatic hydrocarbons (PAHs) in cosmetic products by gas chromatography-tandem mass spectrometry              | Wang, Sheng-Wei; Hsu, Kuo-Hsien; Huang, Shou-Chieh; Tseng, Su-Hsiang; Wang, Der-Yuan; Cheng, Hwei-Fang   | 27     | 815-824 | 2019 | 8                   |
| A low cost smart system to analyze different types of edible Bird's nest adulteration based on colorimetric sensor array                  | Huan, Xiaowei; Li, Zhihua; Zou, Xiaobo; Shi, Jiyong; Tahir, Haroon Elrasheid; Xu, Yiwei; Zhai, Xiaodong; Hu, Xuetao                                | 27     | 876-886 | 2019 | 8                   |

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| Comparative study on amount of nutraceuticals in by-products from solvent and cold pressing methods of rice bran oil processing                            | Wongwaiwech, Donporn; Weerawatanakorn, Monthana; Tharatha, Somsak; Ho, Chi-Tang  | 27     | 71-82   | 2019 | 7                   |
| Novel inspection of sugar residue and origin in honey based on the C-13/C-12 isotopic ratio and protein content  | Chen, Chun-Ting; Chen, Bor-Yann; Nai, Yu-Shin; Chang, Yuan-Mou; Chen, Kuan-Hua; Chen, Yue-Wen                          | 27     | 175-183 | 2019 | 7                   |
| Identification of bacteria in juice/lettuce using magnetic nanoparticles and selected reaction monitoring mass spectrometry                                | Chen, Cheng-Tung; Yu, Je-Wei; Ho, Yen-Peng   | 27     | 575-584 | 2019 | 7                   |
| Distribution of antibiotic resistance genes among Staphylococcus species isolated from ready-to-eat foods  | Wang, Yu-Ting; Lin, Yu-Tzu; Wan, Tsai-Wen; Wang, Der-Yuan; Lin, Hsu-Yang; Lin, Che-Yang; Chen, Yu-Chih; Teng, Lee-Jene | 27     | 841-848 | 2019 | 7                   |
| Alleviating chronic kidney disease progression through modulating the critical genus of gut microbiota in a cisplatin-induced Lanyu pig model              | Lee, Ya-Jane; Li, Kuan-Yi; Wang, Pin-Jhu; Huang, Hsiao-Wen; Chen, Ming-Ju  | 28     | 103-114 | 2020 | 7                   |
| A rapid LC-MS/MS method for simultaneous determination of quetiapine and duloxetine in rat plasma and its application to pharmacokinetic interaction study | Chen, Xiujuan; Liang, Chen; Cui, Lijun; Le, Jian; Qian, Zheyuan; Zhang, Runsheng; Hong, Zhanying; Chai, Yifeng         | 27     | 323-331 | 2019 | 6                   |
| Prioritization of pesticides in crops with a semi-quantitative risk ranking method for Taiwan postmarket monitoring program                                | Chou, Wei-Chun; Tsai, Wei-Ren; Chang, Hsiu-Hui; Lu, Shui-Yuan; Lin, King-Fu; Lin, Pinpin                               | 27     | 347-354 | 2019 | 6                   |
| Rapid detection and quantitation of drugs-of-abuse by wooden-tip electrospray ionization mass spectrometry   | Ng, Tsz-Tsun; So, Pui-Kin; Hu, Bin; Yao, Zhong-Ping  | 27     | 428-438 | 2019 | 6                   |

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| Multi-residue analysis using liquid chromatography tandem mass spectrometry for detection of 20 coccidiostats in poultry, livestock, and aquatic tissues                  | Chang, Shun-Hsien; Lai, Yu-Hsun; Huang, Chih-Neng; Peng, Guan-Jih; Liao, Chia-Ding; Kao, Ya-Min; Tseng, Su-Hsiang; Wang, Der-Yuan   | 27     | 703-716 | 2019 | 6                   |
| Nelumbo nucifera leaves extract attenuate the pathological progression of diabetic nephropathy in high-fat diet-fed and streptozotocin-induced diabetic rats              | Chen, Huan-Wei; Yang, Mon-Yuan; Hung, Tung-Wei; Chang, Yun-Ching; Wang, Chau-Jong   | 27     | 736-748 | 2019 | 6                   |
| A highly sensitive ultra-high performance liquid chromatography/tandem mass spectrometry method with in-source fragmentation for rapid quantification of raspberry ketone | Yuan, Bo; Zhao, Danyue; Du, Ruoyuan; Kshatriya, Dushyant; Bello, Nicholas T.; Simon, James E.; Wu, Qingli   | 27     | 778-785 | 2019 | 6                   |
| Design, synthesis and evaluation of DNA nanocubes as a core material protected by the alginate coating for oral administration of anti-diabetic drug                      | Baig, Mirza Muhammad Faran Ashraf; Abbas, Muhammad; Naveed, Muhammad; Kassim, Said Abasse; Khan, Ghulam Jilany; Sohail, Muhammad; Ullah, Sana; Hasnat, Muhammad; Shah, Komal; Ansari, Muhammad Tayyab | 27     | 805-814 | 2019 | 6                   |
| Mulberry fruits extracts induce apoptosis and autophagy of liver cancer cell and prevent hepatocarcinogenesis in vivo   | Cheng, Kwok-Chui; Wang, Chau-Jong; Chang, Yun-Ching; Hung, Tung-Wei; Lai, Chun-Jung; Kuo, Chi-Wen; Huang, Hui-Pei   | 28     | 84-93   | 2020 | 6                   |
| Bioactive peptides attenuate cardiac hypertrophy and fibrosis in spontaneously hypertensive rat hearts  | Huang, Chih Yang; Nithiyantham, Srinivasan; Liao, Jia Ying; Lin, Wan Teng   | 28     | 94-102  | 2020 | 6                   |

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| Polysaccharide-containing fraction from <i>Artemisia argyi</i> inhibits tumor cell-induced platelet aggregation by blocking interaction of podoplanin with C-type lectin-like receptor 2 | Tseng, Ching-Ping; Huang, Yu-Ling; Chang, Yao-Wen; Liao, Hsiang-Ruei; Chen, Yu-Li; Hsieh, Pei-Wen   | 28     | 115-123 | 2020 | 6                   |
| Rapid screening of sulfonamides in dietary supplements based on extracted common ion chromatogram and neutral loss scan by LC-Q/TOF-mass spectrometry                                    | Ki, Nam-Yong; Hur, Jisu; Kim, Beom Hee; Kim, Kyung Ho; Moon, Bong Jin; Oh, Han Bin; Hong, Jongki  | 27     | 164-174 | 2019 | 5                   |
| Identification of baicalin from Bofutsushosan and Daisaikoto as a potent inducer of glucose uptake and modulator of insulin signaling-associated pathways                                | Kuo, Yu-Ting; Lin, Chih-Chan; Kuo, Hsiao-Tzu; Hung, Jui-Hsiang; Liu, Ching-Hsuan; Jassey, Alagie; Yen, Ming-Hong; Wu, Shu-Jing; Lin, Liang-Tzung              | 27     | 240-248 | 2019 | 5                   |
| Effect of sinapic acid on aripiprazole pharmacokinetics in rats: Possible food drug interaction  | Raish, Mohammad; Ahmad, Ajaz; Ansari, Mushtaq Ahmad; Alkharfy, Khalid M.; Ahad, Abdul; Khan, Altaf; Aljenobi, Fahad I.; Ali, Naushad; Al-Mohizea, Abdullah M. | 27     | 332-338 | 2019 | 5                   |
| Direct and rapid characterization of illicit drugs in adulterated samples using thermal desorption electrospray ionization mass spectrometry   | Cheng, Sy-Chyi; Tsai, You-Da; Lee, Chi-Wei; Chen, Bai-Hsiun; Shiea, Jentaie   | 27     | 451-459 | 2019 | 5                   |
| Detection of BPDE-DNA adducts in human umbilical cord blood by LC-MS/MS analysis   | Guo, Ling; Jiang, Xiao; Tian, Hao-Yuan; Yao, Shang-Jin; Li, Bo-Ya; Zhang, Rong-Jie; Zhang, Shu-Sheng; Sun, Xin  | 27     | 518-525 | 2019 | 5                   |

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| NeuroDefend, a novel Chinese medicine, attenuates amyloid-beta and tau pathology in experimental Alzheimer's disease models   | Iyaswamy, Ashok; Krishnamoorthi, Senthil Kumar; Song, Ju-Xian; Yang, Chuan-Bin; Kaliyamoorthy, Venkatapathy; Zhang, Huan; Sreenivasmurthy, Sravan G.; Malampati, Sandeep; Wang, Zi-Ying; Zhu, Zhou; Tong, Benjamin Chun-Kit; Cheung, King-Ho; Lu, Jia-Hong; Durairajan, Siva Sundara Kumar; Li, Min | 28     | 132-146 | 2020 | 5                   |
| Multiclass analysis of antimicrobial drugs in shrimp muscle by ultra high performance liquid chromatography-tandem mass spectrometry                                | Susakate, Saksit; Poapolathep, Saranya; Chokejaroenrat, Chanat; Tanhan, Phanwimol; Hajslova, Jana; Giorgi, Mario; Saimek, Kanista; Zhang, Zhaowei; Poapolathep, Amnart  | 27     | 118-134 | 2019 | 4                   |
| The rapid and sensitive detection of edible bird's nest ( <i>Aerodramus fuciphagus</i> ) in processed food by a loop-mediated isothermal amplification (LAMP) assay | Lee, Meng-Shiou; Huang, Jhong-Yong; Lien, Yi-Yang; Sheu, Shyang-Chwen   | 27     | 154-163 | 2019 | 4                   |
| Catechin rich butanol fraction extracted from <i>Acacia catechu</i> L. (a thirst quencher) exhibits immunostimulatory potential                                     | Sunil, M. A.; Sunitha, V. S.; Ashitha, A.; Neethu, Sahadevan; Midhun, Sebastian J.; Radhakrishnan, E. K.; Jyothis, Mathew   | 27     | 195-207 | 2019 | 4                   |
| Comparative investigation for raw and processed <i>Aconiti Lateralis Radix</i> using chemical UPLC-MS profiling and multivariate classification techniques          | Sun, Lili; You, Guangjiao; Cao, Xuexiao; Wang, Meng; Ren, Xiaoliang   | 27     | 365-372 | 2019 | 4                   |



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| Using gas chromatography and mass spectrometry to determine 25-hydroxyvitamin D levels for clinical assessment of vitamin D deficiency                                     | Yang, Ming-Yeh; Huang, Ching-Yuan; Chiu, Tina H. T.; Chang, Kai-Chih; Lin, Ming-Nan; Chen, Liang-Yu; Hu, Anren   | 27     | 494-501 | 2019 | 4                   |
| Stability of glyoxal- and methylglyoxal-modified hemoglobin on dried blood spot cards as analyzed by nanoflow liquid chromatography tandem mass spectrometry               | Chen, Hauh-Jyun Candy; Teng, Yi-Chun   | 27     | 526-530 | 2019 | 4                   |
| Reduction of aluminum ion neurotoxicity through a small peptide application - NAP treatment of Alzheimer's disease   | Yang, Ming-Hui; Chen, Shih-Cheng; Lin, Yu-Fen; Lee, Yi-Chia; Huang, Ming-Yii; Chen, Ko-Chin; Wu, Hsin-Yi; Lin, Po-Chiao; Gozes, Illana; Tyan, Yu-Chang   | 27     | 551-564 | 2019 | 4                   |
| Analysis of heterocyclic amines in meat products by liquid chromatography - Tandem mass spectrometry   | Jian, Shi-Han; Yeh, Pei-Jou; Wang, Chung-Huang; Chen, Hsin-Chang; Chen, Sung-Fang  | 27     | 595-602 | 2019 | 4                   |
| Direct injection high performance liquid chromatography coupled to data independent acquisition mass spectrometry for the screening of antibiotics in honey                | von Eyken, Annie; Furlong, Daniel; Arooni, Samareh; Butterworth, Fred; Roy, Jean-Francois; Zweigenbaum, Jerry; Bayen, Stephane   | 27     | 679-691 | 2019 | 4                   |
| A sensitive HPLC-FLD method combined with multivariate analysis for the determination of amino acids in L-citrulline rich vegetables                                       | Corleto, Karen A.; Singh, Jashbir; Jayaprakasha, G. K.; Patil, Bhimanagouda S.   | 27     | 717-728 | 2019 | 4                   |
| Analysis of potential anti-aging beverage Pru, a traditional Cuban refreshment, by desorption electrospray ionization-mass spectrometry and FTICR tandem mass spectrometry | Al Mamun, Md; Valdes Gonzalez, Tania; Islam, Ariful; Sato, Tomohito; Sato, Shumpei; Ito, Takashi K.; Horikawa, Makoto; Yamazaki, Fumiyoshi; Contreras Alarcon, Rolando; Ido, Tatsuo; Setou, Mitsutoshi | 27     | 833-840 | 2019 | 4                   |

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| In vitro and in vivo evaluation of the neuroprotective activity of <i>Uncaria hirsuta</i> Haviland                          | Lin, Chien-Min; Lin, Yi-Tzu; Lee, Tai-Lin; Imtiyaz, Zuha; Hou, Wen-Chi; Lee, Mei-Hsien   | 28     | 147-158 | 2020 | 4                   |
| Anti-inflammatory effects of peptides from a marine algicolous fungus <i>Acremonium</i> sp. NTU492 in BV-2 microglial cells | Hsiao, George; Wang, Shih-Wei; Chiang, Yin-Ru; Chi, Wei-Chiung; Kuo, Yueh-Hsiung; Do Anh Phong; Chen, Chia-Yu; Lee, Tzong-Huei                               | 28     | 89-97   | 2020 | 4                   |
| A multi-analyte LC-MS/MS method for screening and quantification of nitrosamines in sartans                                 | Chang, Shu-Han; Chang, Ching-Chia; Wang, Li-Jing; Chen, Wei-Ching; Fan, Shu-Yu; Zang, Chi-Zong; Hsu, Ya-Hui; Lin, Mei-Chih; Tseng, Su-Hsiang; Wang, Der-Yuan | 28     | 98-107  | 2020 | 4                   |

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