Murat BaÄcÄ±oÄlu

List of Publications by Year
in descending order

16 papers	494 citations	840585 11 h-index	940416 16 g-index
16 all docs	16 docs citations	16 times ranked	592 citing authors

#	Article	IF	Citations
1	Enterotoxin Production of Bacillus thuringiensis Isolates From Biopesticides, Foods, and Outbreaks. Frontiers in Microbiology, 2018, 9, 1915.	1.5	77
2	A Multiscale Vibrational Spectroscopic Approach for Identification and Biochemical Characterization of Pollen. PLoS ONE, 2015, 10, e0137899.	1.1	63
3	Detection and Identification of Bacillus cereus, Bacillus cytotoxicus, Bacillus thuringiensis, Bacillus mycoides and Bacillus weihenstephanensis via Machine Learning Based FTIR Spectroscopy. Frontiers in Microbiology, 2019, 10, 902.	1.5	57
4	Vibrational microspectroscopy enables chemical characterization of single pollen grains as well as comparative analysis of plant species based on pollen ultrastructure. Planta, 2015, 242, 1237-1250.	1.6	49
5	Analysis of Allergenic Pollen by FTIR Microspectroscopy. Analytical Chemistry, 2016, 88, 803-811.	3.2	47
6	Monitoring of plantâ€“environment interactions by highâ€throughput <scp>FTIR</scp> spectroscopy of pollen. Methods in Ecology and Evolution, 2017, 8, 870-880.	2.2	42
7	A highâ€throughput FTIR spectroscopy approach to assess adaptive variation in the chemical composition of pollen. Ecology and Evolution, 2017, 7, 10839-10849.	0.8	29
8	Recovery of absorbance spectra of micrometer-sized biological and inanimate particles. Analyst, The, 2015, 140, 3273-3284.	1.7	25
9	Infrared refractive index dispersion of polymethyl methacrylate spheres from Mie ripples in Fourier-transform infrared microscopy extinction spectra. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2016, 33, 1687.	0.8	23
10	Combining Chemical Information From Grass Pollen in Multimodal Characterization. Frontiers in Plant Science, 2019, 10, 1788.	1.7	18
11	Discrimination of grass pollen of different species by FTIR spectroscopy of individual pollen grains. Analytical and Bioanalytical Chemistry, 2020, 412, 6459-6474.	1.9	16
12	Observation of Mie ripples in the synchrotron Fourier transform infrared spectra of spheroidal pollen grains. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2018, 35, 1769.	0.8	12
13	Machine Learning-Empowered FTIR Spectroscopy Serum Analysis Stratifies Healthy, Allergic, and SIT-Treated Mice and Humans. Biomolecules, 2020, 10, 1058.	1.8	11
14	Matrix-assisted laser desorption/ionization time-of-flight mass spectrometry (MALDI-TOF MS) shows adaptation of grass pollen composition. Scientific Reports, 2018, 8, 16591.	1.6	9
15	Comparison of metabolic adaptation and biofilm formation of Actinobacillus pleuropneumoniae field isolates from the upper and lower respiratory tract of swine with respiratory disease. Veterinary Microbiology, 2020, 240, 108532.	0.8	9
16	Whole Grain Consumption Increases Gastrointestinal Content of Sulfate-Conjugated Oxylipins in Pigs â^' A Multicompartmental Metabolomics Study. Journal of Proteome Research, 2015, 14, 3095-3110.	1.8	7