

1: Applied Optics Lab at Purdue University

Applied Optics and Optical Engineering. Latest volume All volumes. Optical Instruments. Edited by RUDOLF KINGSLAKE. Volume 5, Part 2, Pages () Previous volume.

Publications Journal publications H. Bae, "Development of a multispectral light-scatter sensor for bacterial colonies", Journal of Biophotonics, accepted, Robinson, "Current status and future prospects of using advanced computer-based methods to study bacterial colonial morphology", Expert Review of Anti-infective Therapy, pp. Bae, "Smartphone based colorimetric analysis for detection of saliva alcohol concentration," Applied Optics, Vol. Bae, "Scalar diffraction modeling of multispectral forward scatter patterns from bacterial colonies", Optics Express 23, , Bai, Huisung Kim, M. Bhunia, "Label-free, non-invasive light scattering sensor for rapid screening of Bacillus colonies", Journal of Microbiological Methods , , Bae, "Laser-induced speckle scatter patterns in Bacillus colonies", Frontiers in Microbiology, Food Microbiology, vol. Mialon, Y Tang, A. Bhunia, "Effects of preparation and storage of agar media on the sensitivity of bacterial forward scattering patterns", Open Journal of Applied Biosensor, Vol. Robinson Portable bacterial identification systems based on elastic light scatter patterns, Journal of Biological Engineering, in progress, Bae, Huisung Kim, Helen A. Hirleman Application of sampling criterion on numerical diffraction from bacterial colonies, Applied Optics, Vol. Huff, Amornrat Aroonnu, E. H Kim, Application of sensitivity analysis for the design of six-degree-of-freedom measurement system, Optical Engineering, Vol. Patsekin, "Bacterial identification can be achieved from a colony in seconds without reagents", Food Micro, Dublin, Ireland, July, Robinson, "Biophotonics of bacterial colony screening and identification using coherent light source", Food Micro, Dublin, Ireland, July, Robinson, "Reducing the risk of bacterial contamination by application of machine-learning methods for phenotypic pre-screening, recognition and classification", Food Micro, Dublin, Ireland, July, Robinson, "Phenotyping of bacterial colonies from the biophotonics perspective: Robinson, "Application of machine-learning methods to recognition and classification of foodborne pathogens on the basis of elastic light scattering characteristics", Recent Advance in Food Analysis RAFA , Prague, Czech republic, Bae, "Development of an integrated multimodal instrument for bacterial colony analysis", Laser technology, Orlando FL, Bae, "Towards a portable confocal Raman module for sample identification and quantification", Laser technology, Orland FL, Huisung Kim, Galen B. K Bhunia, and E. K Bhunia, and J. Robinson, Noninvasive forward-scattering system for rapid detection, characterization, and identification of Listeria colonies: Bhunia "Label-free light scattering sensors for high throughput screening of microbes and toxins in food", High throughput screening for food safety assessment: Lancaster, PA , pp, A. Hoboken, NJ, pp, Patents J.

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