



**RIO18**  
21st World Congress  
of Soil Science

**21 WORLD CONGRESS OF SOIL SCIENCE**  
Sunday 12 – Friday 17 August 2018  
Rio de Janeiro, Brazil

Rio de Janeiro August | 12 - 17

## POSTER SESSION – DIVISION 2

Thursday (Aug, 16)		TOTEN 21	
<b>C2.5.2</b>		Advances in techniques to investigate soil interfaces to understand interfacial reactions	
Schedule	ID	Title	Presenter
13:30 – 13:40	939	An assessment of near infrared (NIR) spectroscopy for soil organic matter prediction comparing different pre-processing and multivariate calibration techniques in Southern Brazil	Jacques Krticka Carvalho
13:40 – 13:50	1663	An optical approach to evaluate the effect of various salts on the sedimentation of clay-rich soil material	Attila Nemes
13:50 – 14:00	2318	Application of micronutrients and biostimulants in sugar cane in successive agricultural cycles	Bruno Bernardes de Souza
14:00 – 14:10	201	Assessing the SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , P <sub>2</sub> O <sub>5</sub> and TiO <sub>2</sub> contents in Brazilian soils via portable X-ray fluorescence equipment	Bruno Teixeira Ribeiro
14:10 – 14:20	1557	Computer vision technology applied to soil analysis by digital image analysis based on colour	Victor J. Palencia
14:20 – 14:30	1869	Description of colloidal clay particles aggregation in the presence of Hofmeister effects: On the relationship of ion adsorption energy and particle aggregation activation energy	Yaxue Luo
14:30 – 14:40	1764	Description of intermolecular interactions of humic acids and low molecular weight organic compounds	Manuel S. Palencia
14:40 – 14:50	350	DRIVERS OF SPECIES DIVERSITY ON GRANITIC HIGHLANDS IN THE MATA ATLÂNTICA OF SOUTHEASTERN BRAZIL	Prímula Viana Campos
14:50 – 15:00	376	Estimation of clay content in Brazilian agricultural soils based on portable X-ray fluorescence data	Bruno Teixeira Ribeiro
15:00 – 15:10	1711	Estimation of the specific surface area in subtropical soils of Brazil	Alberto Vasconcellos Inda



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