

Michel K Nieuwoudt

List of Publications by Citations

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43
papers

993
citations

18
h-index

30
g-index

49
ext. papers

1,175
ext. citations

4.1
avg, IF

4.28
L-index

#	Paper	IF	Citations
43	Encapsulation of food grade antioxidant in natural biopolymer by electrospinning technique: a physicochemical study based on zein-gallic acid system. <i>Food Chemistry</i> , 2013 , 136, 1013-21	8.5	255
42	The growth of the passive film on iron in 0.05 M NaOH studied in situ by Raman micro-spectroscopy and electrochemical polarisation. Part I: near-resonance enhancement of the Raman spectra of iron oxide and oxyhydroxide compounds. <i>Journal of Raman Spectroscopy</i> , 2011 , 42, 1335-1339	2.3	95
41	Grafting from Poly(3,4-ethylenedioxythiophene): A Simple Route to Versatile Electrically Addressable Surfaces. <i>Macromolecules</i> , 2013 , 46, 4955-4965	5.5	46
40	Raman spectroscopic study of phase transitions in Li3PO4. <i>Journal of Raman Spectroscopy</i> , 2003 , 34, 77-83	2.3	43
39	Microfossils of Polynesian cultigens in lake sediment cores from Rano Kau, Easter Island. <i>Journal of Paleolimnology</i> , 2012 , 47, 185-204	2.1	39
38	Raman spectroscopy as an effective screening method for detecting adulteration of milk with small nitrogen-rich molecules and sucrose. <i>Journal of Dairy Science</i> , 2016 , 99, 2520-2536	4	38
37	Sol-gel Route to Nanocrystalline Lithium Metasilicate Particles. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 1927-1932	3.8	33
36	Unexpected arene ligand exchange results in the oxidation of an organoruthenium anticancer agent: the first X-ray structure of a protein-Ru(carbene) adduct. <i>Chemical Communications</i> , 2018 , 54, 6120-6123	5.8	26
35	Microfossil and Fourier Transform InfraRed analyses of Lapita and post-Lapita human dental calculus from Vanuatu, Southwest Pacific. <i>Journal of the Royal Society of New Zealand</i> , 2014 , 44, 17-33	2	25
34	The growth of the passive film on iron in 0.05 M NaOH studied in situ by Raman microspectroscopy and electrochemical polarization. Part II: In situ Raman spectra of the passive film surface during growth by electrochemical polarization. <i>Journal of Raman Spectroscopy</i> , 2011 , 42, 1353-1365	2.3	25
33	The antimicrobial action of polyaniline involves production of oxidative stress while functionalisation of polyaniline introduces additional mechanisms. <i>PeerJ</i> , 2018 , 6, e5135	3.1	24
32	A new precursor for conducting polymer-based brush interfaces with electroactivity in aqueous solution. <i>Polymer</i> , 2013 , 54, 1305-1317	3.9	24
31	Electrochemical preparation of pore wall modification gradients across thin porous silicon layers. <i>Langmuir</i> , 2010 , 26, 7598-603	4	24
30	Rapid, sensitive, and reproducible screening of liquid milk for adulterants using a portable Raman spectrometer and a simple, optimized sample well. <i>Journal of Dairy Science</i> , 2016 , 99, 7821-7831	4	24
29	Direct writing of conducting polymers. <i>Macromolecular Rapid Communications</i> , 2013 , 34, 1296-300	4.8	22
28	Raman spectroscopy of olivine in dunite experimentally shocked to pressures between 5 and 59 GPa. <i>Meteoritics and Planetary Science</i> , 2005 , 40, 1311-1327	2.8	20
27	Predicting the cell-wall compositions of <i>Pinus radiata</i> (radiata pine) wood using ATR and transmission FTIR spectroscopies. <i>Cellulose</i> , 2017 , 24, 5275-5293	5.5	19

26	Influence of heat curing on structure and physicochemical properties of phenolic acid loaded proteinaceous electrospun fibers. <i>Journal of Agricultural and Food Chemistry</i> , 2014 , 62, 5163-72	5.7	19
25	Using NIR and ATR-FTIR spectroscopy to rapidly detect compression wood in <i>Pinus radiata</i> . <i>Canadian Journal of Forest Research</i> , 2014 , 44, 820-830	1.9	17
24	Short range order at the amorphous TiO ₂ -water interface probed by silicic acid adsorption and interfacial oligomerization: an ATR-IR and ²⁹ Si MAS-NMR study. <i>Journal of Colloid and Interface Science</i> , 2012 , 368, 447-55	9.3	16
23	Nanostructures obtained in the oxidative polymerization of aniline: Effects of polarons. <i>Polymer</i> , 2013 , 54, 6363-6372	3.9	16
22	Agriculture, Domestic Production, and Site Function: Microfossil Analyses and Late Prehistoric Landscapes of the Society Islands ¹ . <i>Economic Botany</i> , 2014 , 68, 246-263	1.7	15
21	A one-step approach for esterification of zein with methanol. <i>Journal of Applied Polymer Science</i> , 2013 , 127, 3500-3505	2.9	13
20	The interactions between the two negatively charged polysaccharides: Gum Arabic and alginate. <i>Food Hydrocolloids</i> , 2021 , 112, 106343	10.6	13
19	Gold-sputtered Blu-ray discs: simple and inexpensive SERS substrates for sensitive detection of melamine. <i>Analytical and Bioanalytical Chemistry</i> , 2016 , 408, 4403-11	4.4	12
18	Using near infrared spectroscopy to predict the lignin content and monosaccharide compositions of <i>Pinus radiata</i> wood cell walls. <i>International Journal of Biological Macromolecules</i> , 2018 , 113, 507-514	7.9	11
17	Raman on a disc: high-quality Raman spectroscopy in an open channel on a centrifugal microfluidic disc. <i>Analyst</i> , 2017 , 142, 1682-1688	5	10
16	Location and characterization of lignin in tracheid cell walls of radiata pine (<i>Pinus radiata</i> D. Don) compression woods. <i>Plant Physiology and Biochemistry</i> , 2017 , 118, 187-198	5.4	9
15	Quantification and analysis of Raman spectra of graphene materials. <i>Graphene Technology</i> , 2017 , 2, 47-62.8		9
14	Analysis of the composition of the passive film on iron under pitting conditions in 0.05 M NaOH/NaCl using Raman microscopy in situ with anodic polarisation and MCR-ALS. <i>Journal of Raman Spectroscopy</i> , 2012 , 43, 928-938	2.3	9
13	Excellent quality microchannels for rapid microdevice prototyping: direct CO ₂ laser writing with efficient chemical postprocessing. <i>Microfluidics and Nanofluidics</i> , 2019 , 23, 1	2.8	7
12	Predicting the cell-wall compositions of solid <i>Pinus radiata</i> (radiata pine) wood using NIR and ATR FTIR spectroscopies. <i>Cellulose</i> , 2019 , 26, 7695-7716	5.5	6
11	Screening for Adulterants in Liquid Milk Using a Portable Raman Miniature Spectrometer with Immersion Probe. <i>Applied Spectroscopy</i> , 2017 , 71, 308-312	3.1	5
10	Pentachlorophenol dechlorination with zero-valent iron: a Raman and GCMS study of the complex role of surficial iron oxides. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 17797-17806	5.1	5
9	Synchrotron FTIR microscopy of synthetic and natural CO ₂ -H ₂ O fluid inclusions. <i>Vibrational Spectroscopy</i> , 2014 , 75, 136-148	2.1	5

8	Gold sputtered Blu-Ray disks as novel and cost effective sensors for surface enhanced Raman spectroscopy 2015 ,		4
7	Raman spectroscopy reveals age- and sex-related differences in cortical bone from people with osteoarthritis. <i>Scientific Reports</i> , 2020 , 10, 19443	4.9	3
6	Ingestion of microplastics and mesoplastics by <i>Trachurus declivis</i> (Jenyns, 1841) retrieved from the food of the Australasian gannet <i>Morus serrator</i> : First documented report from New Zealand. <i>Marine Pollution Bulletin</i> , 2021 , 170, 112652	6.7	3
5	Surface-enhanced Raman scattering (SERS) by Ag nanoparticles on anodized TiO ₂ nanotubes. <i>International Journal of Modern Physics B</i> , 2020 , 34, 2040009	1.1	2
4	Routine Monitoring of Instrument Stability in a Milk Testing Laboratory With ASCA: A Pilot Study. <i>Frontiers in Chemistry</i> , 2021 , 9, 733331	5	1
3	Detecting Phytoplankton Cell Viability Using NIR Raman Spectroscopy and PCA.. <i>ACS Omega</i> , 2022 , 7, 5962-5971	3.9	0
2	Macromol. Rapid Commun. 16/2013. <i>Macromolecular Rapid Communications</i> , 2013 , 34, 1336-1336	4.8	
1	Use of PVC for front surface protection of wafers during electrolytic gold backing. <i>Microelectronics Journal</i> , 1985 , 16, 22-23	1.8	