

Nicolas Spegazzini

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

25
papers

564
citations

14
h-index

23
g-index

26
ext. papers

658
ext. citations

6.1
avg, IF

3.54
L-index

#	Paper	IF	Citations
25	Pixelated spatial gene expression analysis from tissue. <i>Nature Communications</i> , 2018 , 9, 202	17.4	17
24	Relating Post-yield Mechanical Behavior in Polyethylenes to Spatially Varying Molecular Deformation Using Infrared Spectroscopic Imaging: Homopolymers. <i>Macromolecules</i> , 2018 , 51, 3836-3844	5.5	10
23	Multimodal Chemical Analysis of the Brain by High Mass Resolution Mass Spectrometry and Infrared Spectroscopic Imaging. <i>Analytical Chemistry</i> , 2018 , 90, 11572-11580	7.8	29
22	Noninvasive Monitoring of Blood Glucose with Raman Spectroscopy. <i>Accounts of Chemical Research</i> , 2017 , 50, 264-272	24.3	129
21	Dielectric Sphere Clusters as a Model to Understand Infrared Spectroscopic Imaging Data Recorded from Complex Samples. <i>Analytical Chemistry</i> , 2017 , 89, 10813-10818	7.8	12
20	Multi-color reflectance imaging of middle ear pathology in vivo. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 3277-83	4.4	16
19	In vivo study of lipid accumulation in the microalgae marine diatom <i>Thalassiosira pseudonana</i> using Raman spectroscopy. <i>Applied Spectroscopy</i> , 2015 , 69, 45-51	3.1	20
18	Emerging trends in optical sensing of glycemic markers for diabetes monitoring. <i>TrAC - Trends in Analytical Chemistry</i> , 2015 , 64, 100-108	14.6	37
17	Less is more: Avoiding the LIBS dimensionality curse through judicious feature selection for explosive detection. <i>Scientific Reports</i> , 2015 , 5, 13169	4.9	38
16	Raman spectroscopic sensing of carbonate intercalation in breast microcalcifications at stereotactic biopsy. <i>Scientific Reports</i> , 2015 , 5, 9907	4.9	24
15	Discerning the differential molecular pathology of proliferative middle ear lesions using Raman spectroscopy. <i>Scientific Reports</i> , 2015 , 5, 13305	4.9	26
14	Spectroscopic approach for dynamic bioanalyte tracking with minimal concentration information. <i>Scientific Reports</i> , 2014 , 4, 7013	4.9	30
13	Multiwavelength fluorescence otoscope for video-rate chemical imaging of middle ear pathology. <i>Analytical Chemistry</i> , 2014 , 86, 10454-60	7.8	17
12	Two-dimensional correlation infrared spectroscopy studies on the thermal-induced mesophase of 4-nitrobenzohydrazide derivative. <i>Vibrational Spectroscopy</i> , 2014 , 70, 115-119	2.1	4
11	Sequential identification of model parameters by derivative double two-dimensional correlation spectroscopy and calibration-free approach for chemical reaction systems. <i>Analytical Chemistry</i> , 2012 , 84, 8330-9	7.8	12
10	pH-Response Mechanism of p-Aminobenzenethiol on Ag Nanoparticles Revealed By Two-Dimensional Correlation Surface-Enhanced Raman Scattering Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 3204-9	6.4	58
9	Activation and thermodynamic parameter study of the heteronuclear C=O...H-N hydrogen bonding of diphenylurethane isomeric structures by FT-IR spectroscopy using the regularized inversion of an eigenvalue problem. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 7797-808	2.8	5

8	Multistep Crystallization Process Involving Sequential Formations of Density Fluctuations, Intermediate Structures and Lamellar Crystallites: Poly(3-hydroxybutyrate) As Investigated by Time-Resolved Synchrotron SAXS and WAXD. <i>Macromolecules</i> , 2012 , 45, 313-328	5.5	29
7	Modeling of isomeric structure of diphenyl urethane by FT-IR spectroscopy during synthesis from phenylisocyanate and phenol as an inverse kinetic problem. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 8832-44	2.8	5
6	Spectroscopic evidence of the mechanism involved in the cationic diglycidyl ether of bisphenol A curing with rare earth metal triflates. <i>Applied Spectroscopy</i> , 2010 , 64, 104-11	3.1	7
5	A methodology to estimate concentration profiles from two-dimensional covariance spectroscopy applied to kinetic data. <i>Applied Spectroscopy</i> , 2010 , 64, 177-86	3.1	4
4	Spectroscopic and Quantitative Chemometric Analysis of the Epoxidised Oil/Amine System. <i>Journal of Near Infrared Spectroscopy</i> , 2010 , 18, 281-290	1.5	3
3	MCR-ALS for sequential estimation of FTIR-ATR spectra to resolve a curing process using global phase angle convergence criterion. <i>Analytica Chimica Acta</i> , 2009 , 642, 155-62	6.6	19
2	Spectroscopic and quantitative analysis of spiroorthoester synthesis by two-dimensional correlation and multivariate curve resolution methods of NIR data. <i>Analyst, The</i> , 2008 , 133, 1028-35	5	6
1	Two-dimensional Fourier transform infrared correlation spectroscopy and evolving factor analysis in the study of cationic curing of DGEBA and ϵ -valerolactone mixtures. <i>Journal of Polymer Science Part A</i> , 2008 , 46, 3886-3899	2.5	6