

David Perez-Guaita

List of Publications by Year in descending order

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74
papers

1,781
citations

270111

25
h-index

355658

38
g-index

78
all docs

78
docs citations

78
times ranked

2478
citing authors

#	ARTICLE	IF	CITATIONS
1	Trends in biomedical analysis of red blood cells â€“ Raman spectroscopy against other spectroscopic, microscopic and classical techniques. <i>TrAC - Trends in Analytical Chemistry</i> , 2022, 146, 116481.	5.8	15
2	Combining Pharmacokinetics and Vibrational Spectroscopy: MCR-ALS Hard-and-Soft Modelling of Drug Uptake In Vitro Using Tailored Kinetic Constraints. <i>Cells</i> , 2022, 11, 1555.	1.8	1
3	Infrared Spectroscopy of Blood. <i>Applied Spectroscopy</i> , 2021, 75, 611-646.	1.2	32
4	Infrared Based Saliva Screening Test for COVIDâ€19. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 17102-17107.	7.2	42
5	Infrared Based Saliva Screening Test for COVIDâ€19. <i>Angewandte Chemie</i> , 2021, 133, 17239-17244.	1.6	15
6	Detection and Identification of Wolbachia pipientis Strains in Mosquito Eggs Using Attenuated Total Reflection Fourier Transform Infrared (ATR FT-IR) Spectroscopy. <i>Applied Spectroscopy</i> , 2021, 75, 1003-1011.	1.2	1
7	Addressing Delicate and Variable Cancer Morphology in Spectral Histopathology Using Canine Visceral Hemangiosarcoma. <i>Analytical Chemistry</i> , 2021, 93, 12187-12194.	3.2	4
8	Towards the Point of Care and noninvasive classification of bladder cancer from urine sediment infrared spectroscopy. Spectral differentiation of normal, abnormal and cancer patients. <i>Microchemical Journal</i> , 2021, 168, 106460.	2.3	7
9	ATR-FTIR spectroscopy for the routine quality control of exosome isolations. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2021, 217, 104401.	1.8	11
10	From bench to worktop: Rapid evaluation of nutritional parameters in liquid foodstuffs by IR spectroscopy. <i>Food Chemistry</i> , 2021, 365, 130442.	4.2	3
11	Multiplexed Fourier Transform Infrared and Raman Imaging. <i>Methods in Molecular Biology</i> , 2021, 2350, 299-312.	0.4	0
12	ATR-FTIR spectroscopy as a quality control system for monitoring the storage of blood products. <i>Analytical Methods</i> , 2021, 13, 5756-5763.	1.3	2
13	ATR-Spin: an open-source 3D printed device for direct cytocentrifugation onto attenuated total reflectance crystals. <i>Lab on A Chip</i> , 2021, 21, 4743-4748.	3.1	0
14	Data mining Raman microspectroscopic responses of cells to drugs in vitro using multivariate curve resolution-alternating least squares. <i>Talanta</i> , 2020, 208, 120386.	2.9	10
15	Discriminant analysis and feature selection in mass spectrometry imaging using constrained repeated random sampling - Cross validation (CORRS-CV). <i>Analytica Chimica Acta</i> , 2020, 1097, 30-36.	2.6	13
16	Quantification and Identification of Microproteinuria Using Ultrafiltration and ATR-FTIR Spectroscopy. <i>Analytical Chemistry</i> , 2020, 92, 2409-2416.	3.2	28
17	Toward Rapid Screening of Liver Grafts at the Operating Room Using Mid-infrared Spectroscopy. <i>Analytical Chemistry</i> , 2020, 92, 14542-14549.	3.2	8
18	Multimodal vibrational studies of drug uptake in vitro: Is the whole greater than the sum of their parts?. <i>Journal of Biophotonics</i> , 2020, 13, e202000264.	1.1	5

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19	Empirical study on the effects of acquisition parameters for FTIR hyperspectral imaging of brain tissue. <i>Analytical Methods</i> , 2020, 12, 4334-4342.	1.3	5
20	Vibrational Spectroscopic Based Approach for Diagnosing <i>Babesia bovis</i> Infection. <i>Analytical Chemistry</i> , 2020, 92, 8784-8792.	3.2	2
21	Infrared spectroscopy coupled to cloud-based data management as a tool to diagnose malaria: a pilot study in a malaria-endemic country. <i>Malaria Journal</i> , 2019, 18, 348.	0.8	41
22	Determining the Age of Spoiled Milk from Dried Films Using Attenuated Reflection Fourier Transform Infrared (ATR FT-IR) Spectroscopy. <i>Applied Spectroscopy</i> , 2019, 73, 1041-1050.	1.2	6
23	Whole-Organism Analysis by Vibrational Spectroscopy. <i>Annual Review of Analytical Chemistry</i> , 2019, 12, 89-108.	2.8	8
24	Synchrotron macro ATR-FTIR microspectroscopy for high-resolution chemical mapping of single cells. <i>Analyst</i> , 2019, 144, 3226-3238.	1.7	74
25	Spectroscopy goes viral: Diagnosis of hepatitis B and C virus infection from human sera using ATR-FTIR spectroscopy. <i>Clinical Spectroscopy</i> , 2019, 1, 100001.	0.6	73
26	Detection of Antimicrobial Resistance-Related Changes in Biochemical Composition of <i>Staphylococcus aureus</i> by Means of Atomic Force Microscopy-Infrared Spectroscopy. <i>Analytical Chemistry</i> , 2019, 91, 15397-15403.	3.2	20
27	Parasites under the Spotlight: Applications of Vibrational Spectroscopy to Malaria Research. <i>Chemical Reviews</i> , 2018, 118, 5330-5358.	23.0	40
28	Model selection for within-batch effect correction in UPLC-MS metabolomics using quality control - Support vector regression. <i>Analytica Chimica Acta</i> , 2018, 1026, 62-68.	2.6	32
29	Multispectral Atomic Force Microscopy-Infrared Nano-Imaging of Malaria Infected Red Blood Cells. <i>Analytical Chemistry</i> , 2018, 90, 3140-3148.	3.2	79
30	<i>In vivo</i> atomic force microscopy-infrared spectroscopy of bacteria. <i>Journal of the Royal Society Interface</i> , 2018, 15, 20180115.	1.5	60
31	Detection and Quantification of <i>Plasmodium falciparum</i> in Aqueous Red Blood Cells by Attenuated Total Reflection Infrared Spectroscopy and Multivariate Data Analysis. <i>Journal of Visualized Experiments</i> , 2018, , .	0.2	1
32	Application of Vibrational Spectroscopy and Imaging to Point-of-Care Medicine: A Review. <i>Applied Spectroscopy</i> , 2018, 72, 52-84.	1.2	75
33	Recent Advances in Macro ATR-FTIR Microspectroscopic Technique for High Resolution Surface Characterisation at Australian Synchrotron IR Beamline. , 2018, , .		0
34	Focal plane array IR imaging at the Australian Synchrotron. <i>Infrared Physics and Technology</i> , 2018, 94, 85-90.	1.3	11
35	Direct Nanospectroscopic Verification of the Amyloid Aggregation Pathway. <i>Angewandte Chemie</i> , 2018, 130, 8655-8660.	1.6	11
36	Assessment of discriminant models in infrared imaging using constrained repeated random sampling - Cross validation. <i>Analytica Chimica Acta</i> , 2018, 1033, 156-164.	2.6	17

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37	Direct Nanospectroscopic Verification of the Amyloid Aggregation Pathway. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8519-8524.	7.2	43
38	Monitoring the biochemical alterations in hypertension affected salivary gland tissues using Fourier transform infrared hyperspectral imaging. <i>Analyst, The</i> , 2017, 142, 1269-1275.	1.7	6
39	Resonance Raman and UV-Visible Microscopy Reveals that Conditioning Red Blood Cells with Repeated Doses of Sodium Dithionite Increases Haemoglobin Oxygen Uptake. <i>ChemistrySelect</i> , 2017, 2, 3342-3346.	0.7	9
40	Simultaneous ATR-FTIR Based Determination of Malaria Parasitemia, Glucose and Urea in Whole Blood Dried onto a Glass Slide. <i>Analytical Chemistry</i> , 2017, 89, 5238-5245.	3.2	87
41	Probing the action of a novel anti-leukaemic drug therapy at the single cell level using modern vibrational spectroscopy techniques. <i>Scientific Reports</i> , 2017, 7, 2649.	1.6	28
42	Screening of <i>Wolbachia</i> Endosymbiont Infection in <i>Aedes aegypti</i> Mosquitoes Using Attenuated Total Reflection Mid-Infrared Spectroscopy. <i>Analytical Chemistry</i> , 2017, 89, 5285-5293.	3.2	25
43	The effect of common anticoagulants in detection and quantification of malaria parasitemia in human red blood cells by ATR-FTIR spectroscopy. <i>Analyst, The</i> , 2017, 142, 1192-1199.	1.7	38
44	Light Scattering By Optically-Trapped Vesicles Affords Unprecedented Temporal Resolution Of Lipid-Raft Dynamics. <i>Scientific Reports</i> , 2017, 7, 8589.	1.6	7
45	Materials and methods of signal enhancement for spectroscopic whole blood analysis: Novel research overview. <i>TrAC - Trends in Analytical Chemistry</i> , 2017, 86, 122-142.	5.8	34
46	Multimodal vibrational imaging of cells. <i>Vibrational Spectroscopy</i> , 2017, 91, 46-58.	1.2	44
47	High resolution FTIR imaging provides automated discrimination and detection of single malaria parasite infected erythrocytes on glass. <i>Faraday Discussions</i> , 2016, 187, 341-352.	1.6	45
48	Single cell analysis/data handling: general discussion. <i>Faraday Discussions</i> , 2016, 187, 299-327.	1.6	4
49	Clinical Spectroscopy: general discussion. <i>Faraday Discussions</i> , 2016, 187, 429-460.	1.6	6
50	Application of Discriminant Analysis and Cross-Validation on Proteomics Data. <i>Methods in Molecular Biology</i> , 2016, 1362, 175-184.	0.4	14
51	Analysis of multi-source metabolomic data using joint and individual variation explained (JIVE). <i>Analyst, The</i> , 2015, 140, 4521-4529.	1.7	21
52	Determination of lidocaine in urine at low ppm levels using dispersive microextraction and attenuated total reflectance-FTIR measurements of dry films. <i>Microchemical Journal</i> , 2015, 121, 178-183.	2.3	11
53	Comparison of transflection and transmission FTIR imaging measurements performed on differentially fixed tissue sections. <i>Analyst, The</i> , 2015, 140, 2376-2382.	1.7	24
54	Assessment of the statistical significance of classifications in infrared spectroscopy based diagnostic models. <i>Analyst, The</i> , 2015, 140, 2422-2427.	1.7	19

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55	Red Blood Cells Polarize Green Laser Light Revealing Hemoglobin's Enhanced Non-Fundamental Raman Modes. <i>ChemPhysChem</i> , 2014, 15, 3963-3968.	1.0	28
56	Chemometric determination of lipidic parameters in serum using ATR measurements of dry films of solvent extracts. <i>Analyst</i> , The, 2014, 139, 170-178.	1.7	18
57	Determination of biochemical parameters in human serum by near-infrared spectroscopy. <i>Analytical Methods</i> , 2014, 6, 3982.	1.3	14
58	Towards the determination of isoprene in human breath using substrate-integrated hollow waveguide mid-infrared sensors. <i>Journal of Breath Research</i> , 2014, 8, 026003.	1.5	43
59	Detection of batch effects in liquid chromatography-mass spectrometry metabolomic data using guided principal component analysis. <i>Talanta</i> , 2014, 130, 442-448.	2.9	27
60	Infrared-based quantification of clinical parameters. <i>TrAC - Trends in Analytical Chemistry</i> , 2014, 62, 93-105.	5.8	48
61	Infrared biospectroscopy for a fast qualitative evaluation of sample preparation in metabolomics. <i>Talanta</i> , 2014, 127, 181-190.	2.9	9
62	Cytotoxic, immunomodulatory, antimycotic, and antiviral activities of semisynthetic 14-hydroxyabietane derivatives and triptoquinone C-4 epimers. <i>MedChemComm</i> , 2013, 4, 1239.	3.5	26
63	Evaluation of infrared spectroscopy as a screening tool for serum analysis. <i>Microchemical Journal</i> , 2013, 106, 202-211.	2.3	34
64	Evaluation of the effect of chance correlations on variable selection using Partial Least Squares-Discriminant Analysis. <i>Talanta</i> , 2013, 116, 835-840.	2.9	21
65	Modified locally weighted Partial least squares regression improving clinical predictions from infrared spectra of human serum samples. <i>Talanta</i> , 2013, 107, 368-375.	2.9	30
66	Improving the performance of hollow waveguide-based infrared gas sensors via tailored chemometrics. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 8223-8232.	1.9	10
67	Atmospheric Compensation in Fourier Transform Infrared (FT-IR) Spectra of Clinical Samples. <i>Applied Spectroscopy</i> , 2013, 67, 1339-1342.	1.2	11
68	Short syntheses of (+)-ferruginol from (+)-dehydroabietylamine. <i>Tetrahedron</i> , 2012, 68, 9612-9615.	1.0	26
69	Protein determination in serum and whole blood by attenuated total reflectance infrared spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 404, 649-656.	1.9	50
70	Synthesis and Biological Evaluation of Combretastatin A-4 and Three Combretastatin-Based Hybrids. <i>Natural Product Communications</i> , 2012, 7, 1934578X1200700.	0.2	2
71	Copper(II) influence on flumequine retention in soils: Macroscopic and molecular investigations. <i>Journal of Colloid and Interface Science</i> , 2011, 357, 453-459.	5.0	23
72	Cu(II) and Zn(II) complexes with a fluoroquinolone antibiotic: Spectroscopic and X-ray absorption characterization. <i>Polyhedron</i> , 2011, 30, 438-443.	1.0	19

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73	Vapor Pressure Measurements of Hydroxyacetaldehyde and Hydroxyacetone in the Temperature Range (273 to 356) K. Journal of Chemical & Engineering Data, 2010, 55, 852-855.	1.0	24
74	Synthesis and biological evaluation of dehydroabietic acid derivatives. European Journal of Medicinal Chemistry, 2010, 45, 811-816.	2.6	99