

# J M Palacios-Santander

## List of Publications by Year in descending order

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Version: 2024-02-01

67  
papers

1,406  
citations

304743

22  
h-index

377865

34  
g-index

68  
all docs

68  
docs citations

68  
times ranked

1452  
citing authors

#	ARTICLE	IF	CITATIONS
1	A third-generation hydrogen peroxide biosensor based on Horseradish Peroxidase (HRP) enzyme immobilized in a Nafion <sup>®</sup> “Sonogel”Carbon composite. <i>Electrochimica Acta</i> , 2008, 53, 7131-7137.	5.2	85
2	A comparison of three amperometric phenoloxidase“Sonogel”Carbon based biosensors for determination of polyphenols in beers. <i>Food Chemistry</i> , 2008, 110, 1019-1024.	8.2	66
3	Green nanomaterials fostering agrifood sustainability. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 125, 115840.	11.4	62
4	Modified carbon-paste electrodes as sensors for the determination of 1,4-benzodiazepines: Application to the determination of diazepam and oxazepam in biological fluids. <i>Sensors and Actuators B: Chemical</i> , 2006, 115, 575-583.	7.8	60
5	New, fast and green procedure for the synthesis of gold nanoparticles based on sonocatalysis. <i>Ultrasonics Sonochemistry</i> , 2011, 18, 789-794.	8.2	55
6	Amperometric inhibition biosensors based on horseradish peroxidase and gold sononanoparticles immobilized onto different electrodes for cyanide measurements. <i>Bioelectrochemistry</i> , 2015, 101, 84-91.	4.6	53
7	Multicomponent analysis of electrochemical signals in the wavelet domain. <i>Talanta</i> , 2003, 59, 735-749.	5.5	49
8	Sonosynthesis of gold nanoparticles from a geranium leaf extract. <i>Ultrasonics Sonochemistry</i> , 2014, 21, 1570-1577.	8.2	49
9	A novel electrochemical sensor modified with green gold sononanoparticles and carbon black nanocomposite for bisphenol A detection. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 264, 114951.	3.5	49
10	Study of solvent effect on the synthesis of magnetic molecularly imprinted polymers based on ultrasound probe: Application for sulfonamide detection. <i>Ultrasonics Sonochemistry</i> , 2019, 58, 104670.	8.2	45
11	Recent advances in graphite powder-based electrodes. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 3525-3539.	3.7	42
12	Selective methods for polyphenols and sulphur dioxide determination in wines. <i>Food Chemistry</i> , 2015, 182, 47-54.	8.2	39
13	Study of the influence of the graphite powder particle size on the structure of the Sonogel-Carbon materials. <i>Journal of Sol-Gel Science and Technology</i> , 2006, 40, 55-64.	2.4	37
14	Applications of Chitosan in Molecularly and Ion Imprinted Polymers. <i>Chemistry Africa</i> , 2020, 3, 513-533.	2.4	36
15	Fast route for the synthesis of decorated nanostructured magnetic molecularly imprinted polymers using an ultrasound probe. <i>Ultrasonics Sonochemistry</i> , 2019, 53, 226-236.	8.2	32
16	Assessment of the Polyphenol Indices and Antioxidant Capacity for Beers and Wines Using a Tyrosinase-Based Biosensor Prepared by Sinusoidal Current Method. <i>Sensors</i> , 2019, 19, 66.	3.8	31
17	Study of the Responses of a Sonogel-Carbon Electrode Towards Phenolic Compounds. <i>Electroanalysis</i> , 2005, 17, 806-814.	2.9	30
18	Multicomponent analysis in the wavelet domain of highly overlapped electrochemical signals: Resolution of quaternary mixtures of chlorophenols using a peg-modified Sonogel“Carbon electrode. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2008, 91, 110-120.	3.5	29

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19	Molecularly imprinted polymers based on polydopamine: Assessment of non-specific adsorption. <i>Microchemical Journal</i> , 2021, 164, 106043.	4.5	28
20	Fast microwave-assisted synthesis of magnetic molecularly imprinted polymer for sulfamethoxazole. <i>Talanta</i> , 2021, 232, 122430.	5.5	28
21	Determination of Wear Metals in Marine Lubricating Oils by Microwave Digestion and Atomic Absorption Spectrometry. <i>Mikrochimica Acta</i> , 1999, 132, 89-94.	5.0	27
22	Electrochemical analysis of endosulfan using a C18-modified carbon-paste electrode. <i>Chemosphere</i> , 2005, 60, 1565-1571.	8.2	24
23	Estimation of beer stability by sulphur dioxide and polyphenol determination. Evaluation of a Laccase-Sonogel-Carbon biosensor. <i>Food Chemistry</i> , 2011, 127, 234-239.	8.2	22
24	A novel magnetic molecularly imprinted polymer for selective extraction and determination of quercetin in plant samples. <i>Analytica Chimica Acta</i> , 2022, 1203, 339709.	5.4	22
25	Comparison between Modified and Unmodified Carbon Paste Electrodes for Hexavalent Chromium Determination. <i>Electroanalysis</i> , 2018, 30, 2750-2759.	2.9	21
26	Beer Digestions for Metal Determination by Atomic Spectrometry and Residual Organic Matter. <i>Mikrochimica Acta</i> , 2004, 144, 183-190.	5.0	20
27	Study of the Electrocatalytic Activity of Cerium Oxide and Gold-Studded Cerium Oxide Nanoparticles Using a Sonogel-Carbon Material as Supporting Electrode: Electroanalytical Study in Apple Juice for Babies. <i>Sensors</i> , 2013, 13, 4979-5007.	3.8	18
28	Computational approach and ultrasound Probe-Assisted synthesis of magnetic molecularly imprinted polymer for the electrochemical detection of bisphenol A. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2022, 277, 115568.	3.5	18
29	$\hat{I}^2$ -Sonogel-Carbon electrodes: A new alternative for the electrochemical determination of catecholamines. <i>Talanta</i> , 2009, 78, 370-376.	5.5	17
30	Analytical determination of the reducing and stabilization agents present in different <i>Zostera noltii</i> extracts used for the biosynthesis of gold nanoparticles. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018, 179, 32-38.	3.8	17
31	Screen-printed electrodes modified with green-synthesized gold nanoparticles for the electrochemical determination of amino thiols. <i>Journal of Electroanalytical Chemistry</i> , 2019, 847, 113184.	3.8	17
32	One-minute and green synthesis of magnetic iron oxide nanoparticles assisted by design of experiments and high energy ultrasound: Application to biosensing and immunoprecipitation. <i>Materials Science and Engineering C</i> , 2021, 123, 112023.	7.3	16
33	E-Tongues/Noses Based on Conducting Polymers and Composite Materials: Expanding the Possibilities in Complex Analytical Sensing. <i>Sensors</i> , 2021, 21, 4976.	3.8	16
34	Fast electroanalytical determination of Cannabidiol and Cannabinol in aqueous solution using Sonogel-Carbon-PEDOT devices. <i>Journal of Electroanalytical Chemistry</i> , 2020, 878, 114591.	3.8	15
35	Synthesis techniques of molecularly imprinted polymer composites. , 2021, , 49-91.		15
36	Use of Artificial Neural Networks, Aided by Methods to Reduce Dimensions, to Resolve Overlapped Electrochemical Signals. A Comparative Study Including other Statistical Methods. <i>Mikrochimica Acta</i> , 2003, 142, 27-36.	5.0	14

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37	Comparative study of the electrocatalytic activity of different types of gold nanoparticles using Sonogel-Carbon material as supporting electrode. <i>Sensors and Actuators B: Chemical</i> , 2012, 171-172, 1244-1256.	7.8	14
38	Experimental design applied to optimisation of silica nanoparticles size obtained by sonosynthesis. <i>Journal of Sol-Gel Science and Technology</i> , 2016, 80, 378-388.	2.4	13
39	Biosynthesis of uniform ultra-small gold nanoparticles by aged <i>Dracaena Draco</i> L extracts. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 581, 123744.	4.7	13
40	Rapid Procedure to Determine Wear Metals in Lubricating Oils and the Analysis of Variance in the Evaluation of Sample Preparation Procedures. <i>Mikrochimica Acta</i> , 2002, 138, 59-64.	5.0	12
41	Development of Sonogel-Carbon based biosensors using sinusoidal voltages and currents methods. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 1525-1535.	7.8	12
42	A handling-free methodology for rapid determination of Cu species in seawater based on direct solid micro-samplers analysis by high-resolution continuum source graphite furnace atomic absorption spectrometry. <i>Talanta</i> , 2020, 206, 120249.	5.5	10
43	A Sensitive Electrochemical Sensor Based on Sonogel-Carbon Material Enriched with Gold Nanoparticles for Melatonin Determination. <i>Sensors</i> , 2022, 22, 120.	3.8	10
44	A chemometric strategy based on peak parameters to resolve overlapped electrochemical signals. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2007, 85, 131-139.	3.5	9
45	Using a Flatbed Scanner To Measure Detergency: A Cost-Effective Undergraduate Laboratory. <i>Journal of Chemical Education</i> , 2011, 88, 1314-1317.	2.3	9
46	The Sonogel-Carbon-PEDOT Material: An Innovative Bulk Material for Sensor Devices. <i>Journal of the Electrochemical Society</i> , 2018, 165, B906-B915.	2.9	9
47	Differential Pulse Voltammetric Determination of Piroxicam on Lanthanide Ferric Oxide Nanoparticles-Carbon Paste Modified Electrode. <i>Current Pharmaceutical Analysis</i> , 2018, 14, 271-276.	0.6	9
48	Silver nanostructures - poly(3,4-ethylenedioxythiophene) sensing material prepared by sinusoidal voltage procedure for detection of antioxidants. <i>Electrochimica Acta</i> , 2021, 393, 139082.	5.2	8
49	1-Furoylthiourea-Sonogel-Carbon electrodes: Structural and electrochemical characterization. <i>Talanta</i> , 2010, 82, 129-136.	5.5	7
50	A novel amperometric inhibition biosensor based on HRP and gold sononanoparticles immobilised onto Sonogel-Carbon electrode for the determination of sulphides. <i>International Journal of Environmental Analytical Chemistry</i> , 2016, 96, 515-529.	3.3	7
51	Determination of silver in seawater by the direct analysis of solvent bars by high resolution continuum source solid sampling graphite furnace atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 1925-1931.	3.0	7
52	Analytical Applications of Molecularly Imprinted Polymer-decorated Magnetic Nanoparticles. , 2021, , 397-428.		7
53	Application of a fractionary factorial design to the determination of tin in lubricating oils by continuous flow hydride generation-atomic absorption spectrometry. <i>Fresenius' Journal of Analytical Chemistry</i> , 1999, 364, 527-532.	1.5	6
54	A simple phosphorus determination in walnuts and assessment of the assimilable fraction. <i>Talanta</i> , 2019, 204, 57-62.	5.5	6

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55	Chemical modeling for pH prediction of acidified musts with gypsum and tartaric acid in warm regions. Food Chemistry, 2015, 168, 218-224.	8.2	5
56	Simultaneous Detection of Glucose and Fructose in Synthetic Musts by Multivariate Analysis of Silica-Based Amperometric Sensor Signals. Sensors, 2021, 21, 4190.	3.8	4
57	Green Synthesis of NanoMaterials for BioSensing. Nanotechnology in the Life Sciences, 2020, , 135-217.	0.6	4
58	Preparation and characterization of reusable Sonogel-Carbon electrodes containing carbon black: Application as amperometric sensors for determination of catechol. Journal of Electroanalytical Chemistry, 2020, 877, 114653.	3.8	4
59	Ceramic polyaniline-carbon composite obtained by ultrasound-assisted sol-gel route: Electrochemical performance towards environmental pollutants. Journal of Electroanalytical Chemistry, 2022, 905, 115971.	3.8	4
60	Electrocatalytic and antifouling properties of CeO <sub>2</sub> -glassy carbon electrodes. Journal of Solid State Electrochemistry, 2016, 20, 3125-3131.	2.5	3
61	Electrochemical Biosensors for Antioxidants. , 2019, , 105-146.		3
62	The Evaluation of Beer Aging. , 2009, , 913-922.		2
63	Polyaniline Nanofibers-Embedded Gold Nanoparticles Obtained by Template-Free Procedure with Immobilization Prospects. Sensors, 2021, 21, 8470.	3.8	2
64	Classification and Prediction Techniques Applied to Metal Concentrations Produced by Welding Fumes in a Shipyard. Toxicological and Environmental Chemistry, 2002, 83, 45-53.	1.2	1
65	Comprehensive chemical study of the acidification of musts in Sherry area with calcium sulphate and tartaric acid. BIO Web of Conferences, 2016, 7, 02023.	0.2	1
66	Highly sensitive nanoplatfrom based on green gold sononanoparticles for phenol determination in olive oil. Journal of Applied Electrochemistry, 2021, 51, 879-892.	2.9	1
67	Development of a chemical model to predict the doses of calcium sulfate and tartaric acid to acidify musts in Sherry area. BIO Web of Conferences, 2017, 9, 02011.	0.2	0