Jorge F Fernandez-Sanchez

List of Publications by Citations

77 papers	1,502 citations	23 h-index	33 g-index
82 ext. papers	1,670 ext. citations	6.3 avg, IF	4.28 L-index

#	Paper	IF	Citations
77	Characterization of supports activated with divinyl sulfone as a tool to immobilize and stabilize enzymes via multipoint covalent attachment. Application to chymotrypsin. *RSC Advances*, **2015**, 5, 20639-20649	3.7	85
76	Nanocomposites Containing Neutral Blue Emitting Cyclometalated Iridium(III) Emitters for Oxygen Sensing. *Chemistry of Materials*, **2012**, 24, 2330-2338	9.6	60
75	Micrometer and Submicrometer Particles Prepared by Precipitation Polymerization: Thermodynamic Model and Experimental Evidence of the Relation between Flory Parameter and Particle Size. *Macromolecules*, **2010**, 43, 5804-5813	5.5	55
74	Novel Strategy To Design Magnetic, Molecular Imprinted Polymers with Well-Controlled Structure for the Application in Optical Sensors. *Macromolecules*, **2010**, 43, 55-61	5.5	54
73	Synthesis of caffeic acid molecularly imprinted polymer microspheres and high-performance liquid chromatography evaluation of their sorption properties. *Journal of Chromatography A*, **2011**, 1218, 7289-96	4.5	46
72	Engineering of efficient phosphorescent iridium cationic complex for developing oxygen-sensitive polymeric and nanostructured films. *Analyst, The*, **2007**, 132, 929-36	5	45
71	Direct observation of reversible electronic energy transfer involving an iridium center. *Inorganic Chemistry*, **2014**, 53, 2677-82	5.1	43
70	Heavy-atom induced room-temperature phosphorescence: a straightforward methodology for the determination of organic compounds in solution. *Analytica Chimica Acta*, **2000**, 417, 19-30	6.6	43
69	Second Generation Nanostructured Metal Oxide Matrices to Increase the Thermal Stability of CO and NO2 Sensing Layers Based on Iron(II) Phthalocyanine. *Advanced Functional Materials*, **2007**, 17, 1188-1198	15.6	39
68	Novel luminescent Ir(III) dyes for developing highly sensitive oxygen sensing films. *Talanta*, **2010**, 82, 620-6	6.2	38
67	Synthesis of a novel polyurethane-based-magnetic imprinted polymer for the selective optical detection of 1-naphthylamine in drinking water. *Biosensors and Bioelectronics*, **2011**, 26, 4520-5	11.8	38
66	Novel nanostructured materials to develop oxygen-sensitive films for optical sensors. *Analytica Chimica Acta*, **2006**, 566, 271-282	6.6	38
65	Novel oxygen sensitive complexes for optical oxygen sensing. *Talanta*, **2007**, 71, 242-50	6.2	34
64	Novel optical sensing film based on a functional nonwoven nanofibre mat for an easy, fast and highly selective and sensitive detection of tryptamine in beer. *Biosensors and Bioelectronics*, **2016**, 79, 600-7	11.8	33
63	The development of a MIP-optosensor for the detection of monoamine naphthalenes in drinking water. *Biosensors and Bioelectronics*, **2009**, 24, 2305-11	11.8	33
62	Highly sensitive and selective fluorescence optosensor to detect and quantify benzo[a]pyrene in water samples. *Analytica Chimica Acta*, **2004**, 506, 1-7	6.6	33
61	One-Step Fabrication of Multifunctional Core-Shell Fibres by Co-Electrospinning. *Advanced Functional Materials*, **2011**, 21, 3488-3495	15.6	32

60	Optical CO2-sensing layers for clinical application based on pH-sensitive indicators incorporated into nanoscopic metal-oxide supports. *Sensors and Actuators B: Chemical*, **2007**, 128, 145-153	8.5	32
59	Chemometric-assisted MIP-optosensing system for the simultaneous determination of monoamine naphthalenes in drinking waters. *Talanta*, **2009**, 78, 57-65	6.2	30
58	A sensitive fluorescence optosensor for analysing propranolol in pharmaceutical preparations and a test for its control in urine in sport. *Journal of Pharmaceutical and Biomedical Analysis*, **2003**, 31, 859-65	3.5	29
57	Luminescent biomimetic citrate-coated europium-doped carbonated apatite nanoparticles for use in bioimaging: physico-chemistry and cytocompatibility.. *RSC Advances*, **2018**, 8, 2385-2397	3.7	25
56	Novel synthetic route for covalent coupling of biomolecules on super-paramagnetic hybrid nanoparticles. *Journal of Polymer Science Part A*, **2012**, 50, 3944-3953	2.5	24
55	The development of solid-surface fluorescence characterization of polycyclic aromatic hydrocarbons for potential screening tests in environmental samples. *Talanta*, **2003**, 60, 287-93	6.2	23
54	Development of a folic acid molecularly imprinted polymer and its evaluation as a sorbent for dispersive solid-phase extraction by liquid chromatography coupled to mass spectrometry. *Journal of Chromatography A*, **2018**, 1576, 26-33	4.5	23
53	A novel optical biosensor for direct and selective determination of serotonin in serum by Solid Surface-Room Temperature Phosphorescence. *Biosensors and Bioelectronics*, **2016**, 82, 217-23	11.8	22
52	A sensing microfibre mat produced by electrospinning for the turn-on luminescence determination of Hg2+ in water samples. *Sensors and Actuators B: Chemical*, **2014**, 195, 8-14	8.5	20
51	Novel optical NO2-selective sensor based on phthalocyaninato-iron(II) incorporated into a nanostructured matrix. *Sensors and Actuators B: Chemical*, **2006**, 113, 630-638	8.5	20
50	A fluorescence optosensor for analyzing naphazoline in pharmaceutical preparations. Comparison with other sensors. *Journal of Pharmaceutical and Biomedical Analysis*, **2005**, 38, 785-9	3.5	19
49	Solid-surface phosphorescence characterization of polycyclic aromatic hydrocarbons and selective determination of benzo(a)pyrene in water samples. *Analytica Chimica Acta*, **2005**, 550, 53-60	6.6	19
48	Copper(I) complexes as alternatives to iridium(III) complexes for highly efficient oxygen sensing. *Chemical Communications*, **2015**, 51, 11401-4	5.8	18
47	A facile flow-through phosphorimetric sensing device for simultaneous determination of naptalam and its metabolite 1-naphthylamine. *Analytica Chimica Acta*, **2004**, 522, 19-24	6.6	18
46	Mini-emulsion solvent evaporation: a simple and versatile way to magnetic nanosensors. *Mikrochimica Acta*, **2011**, 172, 299-308	5.8	17
45	Design and synthesis by ATRP of novel, water-insoluble, lineal copolymers and their application in the development of fluorescent and pH-sensing nanofibres made by electrospinning. *Journal of Materials Chemistry*, **2011**, 21, 6742		17
44	High performance optical oxygen sensors based on iridium complexes exhibiting interchromophore energy shuttling. *Analyst, The*, **2016**, 141, 3090-7	5	17
43	High performance optical sensing nanocomposites for low and ultra-low oxygen concentrations using phase-shift measurements. *Analyst, The*, **2013**, 138, 4607-17	5	16

42	Room-temperature luminescence optosensings based on immobilized active principles actives. *Analytica Chimica Acta*, **2002**, 462, 217-224	6.6	16
41	Development of polymeric sensing films based on a tridentate bis(phosphinic amide)-phosphine oxide for detecting europium(III) in water. *Dalton Transactions*, **2012**, 41, 6735-48	4.3	15
40	A semi-empirical model to simplify the synthesis of homogeneous and transparent cross-linked polymers and their application in the preparation of optical sensing films. *Biosensors and Bioelectronics*, **2009**, 25, 442-9	11.8	15
39	Fluorescence optosensors based on different transducers for the determination of polycyclic aromatic hydrocarbons in water. *Analytical and Bioanalytical Chemistry*, **2003**, 377, 614-23	4.4	15
38	A new highly sensitive and versatile optical sensing film for controlling CO2 in gaseous and aqueous media. *Sensors and Actuators B: Chemical*, **2013**, 184, 281-287	8.5	14
37	Simple luminescence detectors using a light-emitting diode or a Xe lamp, optical fiber and charge-coupled device, or photomultiplier for determining proteins in capillary electrophoresis: a critical comparison. *Analytical Biochemistry*, **2007**, 365, 82-90	3.1	14
36	A simple light-emitted diode-induced fluorescence detector using optical fibers and a charged coupled device for direct and indirect capillary electrophoresis methods. *Electrophoresis*, **2006**, 27, 1776-83	3.6	14
35	A multifunctional material based on co-electrospinning for developing biosensors with optical oxygen transduction. *Analytica Chimica Acta*, **2018**, 1015, 66-73	6.6	13
34	Hg2+-selective sensing film based on the incorporation of a rhodamine 6G derivative into a novel hydrophilic water-insoluble copolymer. *Analytical Methods*, **2013**, 5, 6642	3.2	13
33	An open and low-cost optical-fiber measurement system for the optical detection of oxygen using a multifrequency phase-resolved method. *Sensors and Actuators B: Chemical*, **2013**, 176, 1110-1120	8.5	13
32	A novel luminescent optical fibre probe based on immobilized tridentate bis(phosphinic amide)-phosphine oxide for europium(III) ion aqueous detection in situ. *Sensors and Actuators B: Chemical*, **2012**, 173, 254-261	8.5	13
31	Synthesis and characterization of a molecularly imprinted polymer optosensor for TEXs-screening in drinking water. *Biosensors and Bioelectronics*, **2011**, 26, 3331-8	11.8	12
30	Luminescent organotin complexes with the ligand benzil bis(benzoylhydrazone). *Journal of Organometallic Chemistry*, **2010**, 695, 2305-2310	2.3	12
29	Solution NMR and X-Ray Structural Studies on Phthalocyaninatoiron Complexes. *Helvetica Chimica Acta*, **2006**, 89, 1485-1496	2	12
28	The development and comparison of a fluorescence and a phosphorescence optosensors for determining the plant growth regulator 2-naphthoxyacetic acid. *Sensors and Actuators B: Chemical*, **2005**, 107, 929-935	8.5	12
27	HAI-RTP determination of carbaryl pesticide in different irrigation water samples of south Spain. *Journal of Agricultural and Food Chemistry*, **2000**, 48, 4453-9	5.7	12
26	Fluorescence optosensor using an artificial neural network for screening of polycyclic aromatic hydrocarbons. *Analytica Chimica Acta*, **2004**, 510, 183-187	6.6	11
25	Electrophoretic deposition as a new approach to produce optical sensing films adaptable to microdevices. *Nanoscale*, **2014**, 6, 263-71	7.7	10

24	Improved multifrequency phase-modulation method that uses rectangular-wave signals to increase accuracy in luminescence spectroscopy. *Analytical Chemistry*, **2014**, 86, 5245-56	7.8	10
23	A rapid, sensitive screening test for polycyclic aromatic hydrocarbons applied to Antarctic water. *Chemosphere*, **2007**, 67, 903-10	8.4	10
22	Facile and selective determination of the cerebral vasodilator nafronyl in a commercial formulation by heavy atom induced room temperature phosphorimetry. *Journal of Pharmaceutical and Biomedical Analysis*, **2000**, 23, 845-50	3.5	10
21	A novel tridentate bis(phosphinic acid)phosphine oxide based europium(III)-selective Nafion membrane luminescent sensor. *Analyst, The*, **2013**, 138, 6134-43	5	9
20	On the calibration of chemical sensors based on photoluminescence: Selecting the appropriate optimization criterion. *Sensors and Actuators B: Chemical*, **2015**, 212, 278-286	8.5	8
19	The development of a screening molecularly imprinted polymer optosensor for detecting xylenes in water samples. *Microchemical Journal*, **2011**, 99, 278-282	4.8	8
18	Iron-phthalocyanine complexes immobilized in nanostructured metal oxide as optical sensors of NOx and CO: NMR and photophysical studies. *Journal of Porphyrins and Phthalocyanines*, **2009**, 13, 616-623	1.8	8
17	Evaluation of different functional groups for covalent immobilization of enzymes in the development of biosensors with oxygen optical transduction. *Analytical Methods*, **2015**, 7, 2943-2949	3.2	7
16	Bioinspired crystallization, sensitized luminescence and cytocompatibility of citrate-functionalized Ca-substituted europium phosphate monohydrate nanophosphors. *Journal of Colloid and Interface Science*, **2019**, 538, 174-186	9.3	7
15	A microfluidic device with integrated coaxial nanofibre membranes for optical determination of glucose. *Sensors and Actuators B: Chemical*, **2017**, 250, 156-161	8.5	6
14	Atom-Transfer Radical Polymerisation (ATRP) as a Tool for the Development of Optical Sensing Phases. *Israel Journal of Chemistry*, **2012**, 52, 264-275	3.4	6
13	A simple and rapid phosphorimetric method for the determination of the fungicide fuberidazole in water samples. *International Journal of Environmental Analytical Chemistry*, **2005**, 85, 443-449	1.8	6
12	Evaluation of two sterically directed attachments of biomolecules on a coaxial nanofibre membrane to improve the development of optical biosensors. *Talanta*, **2018**, 187, 83-90	6.2	5
11	Evaluation of a simple PC-based quadrature detection method at very low SNR for luminescence spectroscopy. *Sensors and Actuators B: Chemical*, **2014**, 192, 334-340	8.5	5
10	Biophysical and Biochemical Comparison of Extracellular Vesicles Produced by Infective and Non-Infective Stages of. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	5
9	Eu-Doped Citrate-Coated Carbonated Apatite Luminescent Nanoprobes for Drug Delivery. *Nanomaterials*, **2020**, 10,	5.4	4
8	Simple determination of the herbicide napropamide in water and soil samples by room temperature phosphorescence. *Pest Management Science*, **2005**, 61, 816-20	4.6	3
7	Modelling the size and polydispersity of magnetic hybrid nanoparticles for luminescent sensing of oxygen. *Mikrochimica Acta*, **2013**, 180, 1201-1209	5.8	2

6	Simple luminescence detector for capillary electrophoresis. *Methods in Molecular Biology*, **2009**, 503, 221-37	1.4	2
5	Crystallization, Luminescence and Cytocompatibility of Hexagonal Calcium Doped Terbium Phosphate Hydrate Nanoparticles. *Nanomaterials*, **2021**, 11,	5.4	2
4	Direct estimation of the standard error in phase-resolved luminescence measurements. Application to an oxygen measuring system. *Sensors and Actuators B: Chemical*, **2016**, 224, 521-528	8.5	1
3	Real-time optimal combination of multifrequency information in phase-resolved luminescence spectroscopy based on rectangular-wave signals. *Sensors and Actuators B: Chemical*, **2017**, 238, 221-225	8.5	1
2	Self-Assembled Type I Collagen-Apatite Fibers with Varying Mineralization Extent and Luminescent Terbium Promote Osteogenic Differentiation of Mesenchymal Stem Cells. *Macromolecular Bioscience*, **2021**, 21, e2000319	5.5	1
1	Optical Sensors: One-Step Fabrication of Multifunctional Core-Shell Fibres by Co-Electrospinning (Adv. Funct. Mater. 18/2011). *Advanced Functional Materials*, **2011**, 21, 3595-3595	15.6	