

Alfredo Sanchez

List of Publications by Citations

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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.

51 papers	1,511 citations	24 h-index	37 g-index
51 ext. papers	1,673 ext. citations	7.7 avg, IF	4.53 L-index

#	Paper	IF	Citations
51	Inactivation of immobilized trypsin under dissimilar conditions produces trypsin molecules with different structures. <i>RSC Advances</i> , 2016 , 6, 27329-27334	3.7	102
50	Toward the design of smart delivery systems controlled by integrated enzyme-based biocomputing ensembles. <i>Journal of the American Chemical Society</i> , 2014 , 136, 9116-23	16.4	92
49	Preparation, characterization, and Zn(2+) adsorption behavior of chemically modified MCM-41 with 5-mercapto-1-methyltetrazole. <i>Journal of Colloid and Interface Science</i> , 2007 , 313, 551-62	9.3	91
48	Interactive models of communication at the nanoscale using nanoparticles that talk to one another. <i>Nature Communications</i> , 2017 , 8, 15511	17.4	82
47	Reduced graphene oxide-carboxymethylcellulose layered with platinum nanoparticles/PAMAM dendrimer/magnetic nanoparticles hybrids. Application to the preparation of enzyme electrochemical biosensors. <i>Sensors and Actuators B: Chemical</i> , 2016 , 232, 84-90	8.5	59
46	Label-free electrochemical aptasensing platform based on mesoporous silica thin film for the detection of prostate specific antigen. <i>Sensors and Actuators B: Chemical</i> , 2018 , 255, 309-315	8.5	57
45	Versatility of divinylsulfone supports permits the tuning of CALB properties during its immobilization. <i>RSC Advances</i> , 2015 , 5, 35801-35810	3.7	56
44	Preconcentration of Zn(II) in water samples using a new hybrid SBA-15-based material. <i>Journal of Hazardous Materials</i> , 2009 , 166, 1449-58	12.8	55
43	Decoration of reduced graphene oxide with rhodium nanoparticles for the design of a sensitive electrochemical enzyme biosensor for 17 β -estradiol. <i>Biosensors and Bioelectronics</i> , 2017 , 89, 343-351	11.8	54
42	Enzyme-controlled sensing-actuating nanomachine based on Janus Au-mesoporous silica nanoparticles. <i>Chemistry - A European Journal</i> , 2013 , 19, 7889-94	4.8	52
41	Functionalized HMS mesoporous silica as solid phase extractant for Pb(II) prior to its determination by flame atomic absorption spectrometry. <i>Journal of Separation Science</i> , 2007 , 30, 1556-67	3.4	45
40	Hybrid Decorated Core@Shell Janus Nanoparticles as a Flexible Platform for Targeted Multimodal Molecular Bioimaging of Cancer. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 31032-31043	9.5	44
39	Reduced graphene oxide-Sb ₂ O ₅ hybrid nanomaterial for the design of a laccase-based amperometric biosensor for estriol. <i>Electrochimica Acta</i> , 2015 , 174, 332-339	6.7	40
38	Development of screen-printed carbon electrodes modified with functionalized mesoporous silica nanoparticles: Application to voltammetric stripping determination of Pb(II) in non-pretreated natural waters. <i>Electrochimica Acta</i> , 2010 , 55, 6983-6990	6.7	36
37	Janus Au-mesoporous silica nanoparticles as electrochemical biorecognition-signaling system. <i>Electrochemistry Communications</i> , 2013 , 30, 51-54	5.1	33
36	Decorating graphene oxide/nanogold with dextran-based polymer brushes for the construction of ultrasensitive electrochemical enzyme biosensors. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 3518-3524	7.3	33
35	Solid phase extraction of Pb(II) in water samples using a new hybrid inorganic-organic mesoporous silica prior to its determination by FAAS. <i>Mikrochimica Acta</i> , 2009 , 165, 291-298	5.8	33

34	Voltammetric analysis of Pb(II) in natural waters using a carbon paste electrode modified with 5-mercapto-1-methyltetrazol grafted on hexagonal mesoporous silica. <i>Mikrochimica Acta</i> , 2010 , 169, 57-64	5.8	30
33	Disposable electrochemical biosensors for <i>Brettanomyces bruxellensis</i> and total yeast content in wine based on core-shell magnetic nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2019 , 279, 15-21	8.5	29
32	Novel reduced graphene oxide-glycol chitosan nanohybrid for the assembly of an amperometric enzyme biosensor for phenols. <i>Analyst, The</i> , 2016 , 141, 4162-9	5	27
31	Determination of Hg(II) in natural waters using a carbon paste electrode modified with hybrid mesostructured silica nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2012 , 163, 38-43	8.5	26
30	Surfactant-templated sol-gel silica thin films bearing 5-mercapto-1-methyl-tetrazole on carbon electrode for Hg(II) detection. <i>Electrochimica Acta</i> , 2010 , 55, 4201-4207	6.7	26
29	Mesoporous silica thin film mechanized with a DNAzyme-based molecular switch for electrochemical biosensing. <i>Electrochemistry Communications</i> , 2015 , 58, 57-61	5.1	25
28	Nanochannel-based electrochemical assay for transglutaminase activity. <i>Chemical Communications</i> , 2014 , 50, 13356-8	5.8	25
27	Neoglycoenzyme-Gated Mesoporous Silica Nanoparticles: Toward the Design of Nanodevices for Pulsatile Programmed Sequential Delivery. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 7657-65	9.5	22
26	Synthesis and characterization of novel mesoporous silicas of the MSU-X family for environmental applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 4901-9	1.3	22
25	Water-Soluble Reduced Graphene Oxide/Carboxymethylcellulose Hybrid Nanomaterial for Electrochemical Biosensor Design. <i>ChemPlusChem</i> , 2014 , 79, 1334-1341	2.8	21
24	Dendrimers as Soft Nanomaterials for Electrochemical Immunosensors. <i>Nanomaterials</i> , 2019 , 9,	5.4	21
23	Enzyme-Controlled Nanodevice for Acetylcholine-Triggered Cargo Delivery Based on Janus Au-Mesoporous Silica Nanoparticles. <i>Chemistry - A European Journal</i> , 2017 , 23, 4276-4281	4.8	20
22	Single-Walled Carbon Nanotubes/Au-Mesoporous Silica Janus Nanoparticles as Building Blocks for the Preparation of a Bienzyme Biosensor. <i>ChemElectroChem</i> , 2015 , 2, 1735-1741	4.3	20
21	Preparation of hybrid organic-inorganic mesoporous silicas applied to mercury removal from aqueous media: Influence of the synthesis route on adsorption capacity and efficiency. <i>Journal of Colloid and Interface Science</i> , 2016 , 472, 126-34	9.3	17
20	Neoglycoenzymes. <i>Chemical Reviews</i> , 2014 , 114, 4868-917	68.1	17
19	A Layer-by-Layer Biosensing Architecture Based on Polyamidoamine Dendrimer and Carboxymethylcellulose-Modified Graphene Oxide. <i>Electroanalysis</i> , 2015 , 27, 2131-2138	3	17
18	Effect of Mesoporous Silica Nanoparticles on The Physicochemical Properties of Pectin Packaging Material for Strawberry Wrapping. <i>Nanomaterials</i> , 2019 , 10,	5.4	17
17	Label-free electrochemical genosensor based on mesoporous silica thin film. <i>Analytical and Bioanalytical Chemistry</i> , 2016 , 408, 7321-7	4.4	17

16	Gold nanoparticles-decorated silver-bipyridine nanobelts for the construction of mediatorless hydrogen peroxide biosensor. <i>Journal of Colloid and Interface Science</i> , 2016 , 482, 105-111	9.3	17
15	Au-Mesoporous silica nanoparticles gated with disulfide-linked oligo(ethylene glycol) chains for tunable cargo delivery mediated by an integrated enzymatic control unit. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 6734-6739	7.3	16
14	Disposable electrochemical immunosensor for <i>Brettanomyces bruxellensis</i> based on nanogold-reduced graphene oxide hybrid nanomaterial. <i>Analytical and Bioanalytical Chemistry</i> , 2017 , 409, 5667-5674	4.4	14
13	Toward chemical communication between nanodevices. <i>Nano Today</i> , 2018 , 18, 8-11	17.9	13
12	A comparative study on carbon paste electrodes modified with hybrid mesoporous materials for voltammetric analysis of lead (II). <i>Journal of Electroanalytical Chemistry</i> , 2013 , 689, 76-82	4.1	13
11	Seed-mediated growth of jack-shaped gold nanoparticles from cyclodextrin-coated gold nanospheres. <i>Dalton Transactions</i> , 2013 , 42, 14309-14	4.3	10
10	Effect of Mesoporous Silica Nanoparticles on Glycerol-Plasticized Anionic and Cationic Polysaccharide Edible Films. <i>Coatings</i> , 2019 , 9, 172	2.9	9
9	Electrocatalytic oxidation enhancement at the surface of InGaN films and nanostructures grown directly on Si(111). <i>Electrochemistry Communications</i> , 2015 , 60, 158-162	5.1	9
8	New hybrid materials as Zn(II) sorbents in water samples. <i>Materials Research Bulletin</i> , 2010 , 45, 1177-1184	4.1	9
7	Gold nanoparticles/silver-bipyridine hybrid nanobelts with tuned peroxidase-like activity. <i>RSC Advances</i> , 2016 , 6, 74957-74960	3.7	9
6	Disposable amperometric immunosensor for <i>Saccharomyces cerevisiae</i> based on carboxylated graphene oxide-modified electrodes. <i>Analytical and Bioanalytical Chemistry</i> , 2018 , 410, 7901-7907	4.4	9
5	Amperometric xanthine biosensors using glassy carbon electrodes modified with electrografted porous silica nanomaterials loaded with xanthine oxidase. <i>Mikrochimica Acta</i> , 2016 , 183, 2023-2030	5.8	7
4	An enzyme-controlled Janus nanomachine for on-command dual and sequential release. <i>Chemical Communications</i> , 2020 , 56, 6440-6443	5.8	6
3	Glucose-Responsive Enzyme-Controlled Mesoporous Nanomachine with a Layer-by-Layer Supramolecular Architecture.. <i>ACS Applied Bio Materials</i> , 2019 , 2, 3321-3328	4.1	5
2	Biotin-Labeled Electropolymerized Network of Gold Nanoparticles for Amperometric Immunodetection of Human Fibrinogen. <i>ChemElectroChem</i> , 2014 , 1, 200-206	4.3	1
1	A glutathione disulfide-sensitive Janus nanomachine controlled by an enzymatic AND logic gate for smart delivery. <i>Nanoscale</i> , 2021 , 13, 18616-18625	7.7	1