Alfredo Sanchez

List of Publications by Year in Descending Order

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	A glutathione disulfide-sensitive Janus nanomachine controlled by an enzymatic AND logic gate for smart delivery. *Nanoscale*, **2021**, 13, 18616-18625	7.7	1
50	An enzyme-controlled Janus nanomachine for on-command dual and sequential release. *Chemical Communications*, **2020**, 56, 6440-6443	5.8	6
49	Effect of Mesoporous Silica Nanoparticles on Glycerol-Plasticized Anionic and Cationic Polysaccharide Edible Films. *Coatings*, **2019**, 9, 172	2.9	9
48	Glucose-Responsive Enzyme-Controlled Mesoporous Nanomachine with a Layer-by-Layer Supramolecular Architecture.. *ACS Applied Bio Materials*, **2019**, 2, 3321-3328	4.1	5
47	Effect of Mesoporous Silica Nanoparticles on The Physicochemical Properties of Pectin Packaging Material for Strawberry Wrapping. *Nanomaterials*, **2019**, 10,	5.4	17
46	Dendrimers as Soft Nanomaterials for Electrochemical Immunosensors. *Nanomaterials*, **2019**, 9,	5.4	21
45	Disposable electrochemical biosensors for Brettanomyces bruxellensis and total yeast content in wine based on core-shell magnetic nanoparticles. *Sensors and Actuators B: Chemical*, **2019**, 279, 15-21	8.5	29
44	Toward chemical communication between nanodevices. *Nano Today*, **2018**, 18, 8-11	17.9	13
43	Hybrid Decorated Core@Shell Janus Nanoparticles as a Flexible Platform for Targeted Multimodal Molecular Bioimaging of Cancer. *ACS Applied Materials & Interfaces*, **2018**, 10, 31032-31043	9.5	44
42	Label-free electrochemical aptasensing platform based on mesoporous silica thin film for the detection of prostate specific antigen. *Sensors and Actuators B: Chemical*, **2018**, 255, 309-315	8.5	57
41	Disposable amperometric immunosensor for Saccharomyces cerevisiae based on carboxylated graphene oxide-modified electrodes. *Analytical and Bioanalytical Chemistry*, **2018**, 410, 7901-7907	4.4	9
40	Decoration of reduced graphene oxide with rhodium nanoparticles for the design of a sensitive electrochemical enzyme biosensor for 17β-estradiol. *Biosensors and Bioelectronics*, **2017**, 89, 343-351	11.8	54
39	Enzyme-Controlled Nanodevice for Acetylcholine-Triggered Cargo Delivery Based on Janus Au-Mesoporous Silica Nanoparticles. *Chemistry - A European Journal*, **2017**, 23, 4276-4281	4.8	20
38	Interactive models of communication at the nanoscale using nanoparticles that talk to one another. *Nature Communications*, **2017**, 8, 15511	17.4	82
37	Disposable electrochemical immunosensor for Brettanomyces bruxellensis based on nanogold-reduced graphene oxide hybrid nanomaterial. *Analytical and Bioanalytical Chemistry*, **2017**, 409, 5667-5674	4.4	14
36	Au-Mesoporous silica nanoparticles gated with disulfide-linked oligo(ethylene glycol) chains for tunable cargo delivery mediated by an integrated enzymatic control unit. *Journal of Materials Chemistry B*, **2017**, 5, 6734-6739	7.3	16
35	Inactivation of immobilized trypsin under dissimilar conditions produces trypsin molecules with different structures. *RSC Advances*, **2016**, 6, 27329-27334	3.7	102

34	Preparation of hybrid organic-inorganic mesoporous silicas applied to mercury removal from aqueous media: Influence of the synthesis route on adsorption capacity and efficiency. *Journal of Colloid and Interface Science*, **2016**, 472, 126-34	9.3	17
33	Reduced graphene oxide-carboxymethylcellulose layered with platinum nanoparticles/PAMAM dendrimer/magnetic nanoparticles hybrids. Application to the preparation of enzyme electrochemical biosensors. *Sensors and Actuators B: Chemical*, **2016**, 232, 84-90	8.5	59
32	Neoglycoenzyme-Gated Mesoporous Silica Nanoparticles: Toward the Design of Nanodevices for Pulsatile Programmed Sequential Delivery. *ACS Applied Materials & Interfaces*, **2016**, 8, 7657-65	9.5	22
31	Amperometric xanthine biosensors using glassy carbon electrodes modified with electrografted porous silica nanomaterials loaded with xanthine oxidase. *Mikrochimica Acta*, **2016**, 183, 2023-2030	5.8	7
30	Label-free electrochemical genosensor based on mesoporous silica thin film. *Analytical and Bioanalytical Chemistry*, **2016**, 408, 7321-7	4.4	17
29	Novel reduced graphene oxide-glycol chitosan nanohybrid for the assembly of an amperometric enzyme biosensor for phenols. *Analyst, The*, **2016**, 141, 4162-9	5	27
28	Gold nanoparticles-decorated silver-bipyridine nanobelts for the construction of mediatorless hydrogen peroxide biosensor. *Journal of Colloid and Interface Science*, **2016**, 482, 105-111	9.3	17
27	Gold nanoparticles/silver-bipyridine hybrid nanobelts with tuned peroxidase-like activity. *RSC Advances*, **2016**, 6, 74957-74960	3.7	9
26	Mesoporous silica thin film mechanized with a DNAzyme-based molecular switch for electrochemical biosensing. *Electrochemistry Communications*, **2015**, 58, 57-61	5.1	25
25	Versatility of divinylsulfone supports permits the tuning of CALB properties during its immobilization. *RSC Advances*, **2015**, 5, 35801-35810	3.7	56
24	Electrocatalytic oxidation enhancement at the surface of InGaN films and nanostructures grown directly on Si(111). *Electrochemistry Communications*, **2015**, 60, 158-162	5.1	9
23	Single-Walled Carbon Nanotubes/Au Mesoporous Silica Janus Nanoparticles as Building Blocks for the Preparation of a Bienzyme Biosensor. *ChemElectroChem*, **2015**, 2, 1735-1741	4.3	20
22	A Layer-by-Layer Biosensing Architecture Based on Polyamidoamine Dendrimer and Carboxymethylcellulose-Modified Graphene Oxide. *Electroanalysis*, **2015**, 27, 2131-2138	3	17
21	Decorating graphene oxide/nanogold with dextran-based polymer brushes for the construction of ultrasensitive electrochemical enzyme biosensors. *Journal of Materials Chemistry B*, **2015**, 3, 3518-3524	7.3	33
20	Reduced graphene oxide-Sb2O5 hybrid nanomaterial for the design of a laccase-based amperometric biosensor for estriol. *Electrochimica Acta*, **2015**, 174, 332-339	6.7	40
19	Neoglycoenzymes. *Chemical Reviews*, **2014**, 114, 4868-917	68.1	17
18	Nanochannel-based electrochemical assay for transglutaminase activity. *Chemical Communications*, **2014**, 50, 13356-8	5.8	25
17	Water-Soluble Reduced Graphene Oxide Carboxymethylcellulose Hybrid Nanomaterial for Electrochemical Biosensor Design. *ChemPlusChem*, **2014**, 79, 1334-1341	2.8	21

16	Biotin-Labeled Electropolymerized Network of Gold Nanoparticles for Amperometric Immunodetection of Human Fibrinogen. *ChemElectroChem*, **2014**, 1, 200-206	4.3	1
15	Toward the design of smart delivery systems controlled by integrated enzyme-based biocomputing ensembles. *Journal of the American Chemical Society*, **2014**, 136, 9116-23	16.4	92
14	Seed-mediated growth of jack-shaped gold nanoparticles from cyclodextrin-coated gold nanospheres. *Dalton Transactions*, **2013**, 42, 14309-14	4.3	10
13	A comparative study on carbon paste electrodes modified with hybrid mesoporous materials for voltammetric analysis of lead (II). *Journal of Electroanalytical Chemistry*, **2013**, 689, 76-82	4.1	13
12	Janus Au-mesoporous silica nanoparticles as electrochemical biorecognition-signaling system. *Electrochemistry Communications*, **2013**, 30, 51-54	5.1	33
11	Enzyme-controlled sensing-actuating nanomachine based on Janus Au-mesoporous silica nanoparticles. *Chemistry - A European Journal*, **2013**, 19, 7889-94	4.8	52
10	Determination of Hg(II) in natural waters using a carbon paste electrode modified with hybrid mesostructured silica nanoparticles. *Sensors and Actuators B: Chemical*, **2012**, 163, 38-43	8.5	26
9	Surfactant-templated sol-gel silica thin films bearing 5-mercapto-1-methyl-tetrazole on carbon electrode for Hg(II) detection. *Electrochimica Acta*, **2010**, 55, 4201-4207	6.7	26
8	Voltammetric analysis of Pb(II) in natural waters using a carbon paste electrode modified with 5-mercapto-1-methyltetrazol grafted on hexagonal mesoporous silica. *Mikrochimica Acta*, **2010**, 169, 57-64	5.8	30
7	New hybrid materials as Zn(II) sorbents in water samples. *Materials Research Bulletin*, **2010**, 45, 1177-1184	5.1	9
6	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. *Electrochimica Acta*, **2010**, 55, 6983-6990	6.7	36
5	Synthesis and characterization of novel mesoporous silicas of the MSU-X family for environmental applications. *Journal of Nanoscience and Nanotechnology*, **2009**, 9, 4901-9	1.3	22
4	Solid phase extraction of Pb(II) in water samples using a new hybrid inorganic-organic mesoporous silica prior to its determination by FAAS. *Mikrochimica Acta*, **2009**, 165, 291-298	5.8	33
3	Preconcentration of Zn(II) in water samples using a new hybrid SBA-15-based material. *Journal of Hazardous Materials*, **2009**, 166, 1449-58	12.8	55
2	Functionalized HMS mesoporous silica as solid phase extractant for Pb(II) prior to its determination by flame atomic absorption spectrometry. *Journal of Separation Science*, **2007**, 30, 1556-67	3.4	45
1	Preparation, characterization, and Zn(2+) adsorption behavior of chemically modified MCM-41 with 5-mercapto-1-methyltetrazole. *Journal of Colloid and Interface Science*, **2007**, 313, 551-62	9.3	91