Alex Fragoso

List of Publications by Year
in descending order

97 papers	3,022 citations	126708 33 h-index	189595 50 g-index
102 all docs	102 docs citations	102 times ranked	3801 citing authors

#	Article	IF	Citations
1	Fabrication of a Stainless-Steel Pump Impeller by Integrated 3D Sand Printing and Casting: Mechanical Characterization and Performance Study in a Chemical Plant. Applied Sciences (Switzerland), 2022, 12, 3539.	1.3	4
2	Supramolecular Complexes of Plant Neurotoxin Veratridine with Cyclodextrins and Their Antidote-like Effect on Neuro-2a Cell Viability. Pharmaceutics, 2022, 14, 598.	2.0	2
3	Thiolated amphiphilic Î²-cyclodextrin-decorated gold colloids: Synthesis, supramolecular nanoassemblies and controlled release of dopamine. Journal of Molecular Liquids, 2021, 336, 116880.	2.3	5
4	Carbon Nano-Onion Peroxidase Composite Biosensor for Electrochemical Detection of 2,4-D and 2,4,5-T. Applied Sciences (Switzerland), 2021, 11, 6889.	1.3	10
5	Cyclodextrin polymers as passive sampling materials for lipophilic marine toxins in Prorocentrum lima cultures and a Dinophysis sacculus bloom in the NW Mediterranean Sea. Chemosphere, 2021, 285, 131464.	4.2	3
6	Experimental and Numerical Simulation Study of the Vibration Properties of Thin Copper Films Bonded to FR4 Composite. Applied Sciences (Switzerland), 2020, 10, 5197.	1.3	7
7	Amperometric Detection of Creatinine in Clinical Samples Based on Gold Electrode Arrays Fabricated Using Printed Circuit Board Technology. Electroanalysis, 2020, 32, 3054-3059.	1.5	3
8	Electrochemical characterisation of the adsorption of ferrocenemethanol on carbon nano-onion modified electrodes. Journal of Electroanalytical Chemistry, 2020, 871, 114314.	1.9	11
9	Band structure, work function and interfacial diagrams of oxygen-functionalized carbon nano-onions. Synthetic Metals, 2020, 266, 116434.	2.1	10
10	Electrochemistry of redox probes at thin films of carbon nano-onions produced by thermal annealing of nanodiamonds. Electrochimica Acta, 2020, 353, 136495.	2.6	17
11	Amperometric biosensor for glyphosate based on the inhibition of tyrosinase conjugated to carbon nano-onions in a chitosan matrix on a screen-printed electrode. Mikrochimica Acta, 2019, 186, 569.	2.5	43
12	Determination of the Hansen solubility parameters of carbon nano-onions and prediction of their dispersibility in organic solvents. Journal of Molecular Liquids, 2019, 294, 111646.	2.3	22
13	Development of highly sensitive IgA immunosensors based on co-electropolymerized L-DOPA/dopamine carbon nano-onion modified electrodes. Biosensors and Bioelectronics, 2019, 141, 111357.	5.3	24
14	Preparation and characterization of alkaline phosphatase, horseradish peroxidase, and glucose oxidase conjugates with carboxylated carbon nano-onions. Preparative Biochemistry and Biotechnology, 2018, 48, 136-143.	1.0	24
15	Kinetic, spectroscopic and computational docking study of the inhibitory effect of the pesticides 2,4,5-T, 2,4-D and glyphosate on the diphenolase activity of mushroom tyrosinase. International Journal of Biological Macromolecules, 2018, 118, 427-434.	3.6	17
16	A wide-range solid state potentiometric pH sensor based on poly-dopamine coated carbon nano-onion electrodes. Sensors and Actuators B: Chemical, 2018, 273, 664-671.	4.0	45
17	Preparation of stable aqueous dispersions of carbon nano-onions via supramolecular crown ether-ammonium interactions with aminated biocompatible polymers. Journal of Molecular Liquids, 2018, 269, 905-911.	2.3	14
18	Electrochemical detection of nitrite and ascorbic acid at glassy carbon electrodes modified with carbon nano-onions bearing electroactive moieties. Inorganica Chimica Acta, 2017, 468, 223-231.	1.2	32

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19	Preparation and characterization of carbon nano-onions by nanodiamond annealing and functionalization by radio-frequency Ar/O₂ plasma. Fullerenes Nanotubes and Carbon Nanostructures, 2017, 25, 327-334.	1.0	16
20	Site-directed introduction of disulfide groups on antibodies for highly sensitive immunosensors. Analytical and Bioanalytical Chemistry, 2016, 408, 5337-5346.	1.9	15
21	Supramolecular biosensors based on electropolymerised pyrroleâ€“cyclodextrin modified surfaces for antibody detection. Analyst, The, 2016, 141, 3274-3279.	1.7	25
22	Preparation of stimuli-responsive nano-sized capsules based on cyclodextrin polymers with redox or light switching properties. Nano Research, 2016, 9, 2070-2078.	5.8	51
23	Experimental and theoretical characterization of a novel bisâ€pyrazoylmethane ligand. Magnetic Resonance in Chemistry, 2015, 53, 539-543.	1.1	1
24	Templateâ€Assisted Preparation of Permeable Nanocapsules from Complementary Cyclodextrin and Adamantaneâ€“Appended Biocompatible Dextran Polymers. Macromolecular Materials and Engineering, 2015, 300, 878-884.	1.7	4
25	Bleedâ€toâ€read disposable microsystems for the genetic and serological analysis of celiac disease markers with amperometric detection. Electrophoresis, 2015, 36, 1920-1926.	1.3	4
26	Reactive Carbon Nano-Onion Modified Glassy Carbon Surfaces as DNA Sensors for Human Papillomavirus Oncogene Detection with Enhanced Sensitivity. Analytical Chemistry, 2015, 87, 6744-6751.	3.2	75
27	Supramolecular Solubilization of Cyclodextrin-Modified Carbon Nano-Onions by Hostâ€“Guest Interactions. Langmuir, 2015, 31, 535-541.	1.6	36
28	Peroxidase-encapsulated cyclodextrin nanosponge immunoconjugates as a signal enhancement tool in optical and electrochemical assays. Analyst, The, 2014, 139, 375-380.	1.7	21
29	Supramolecular Amperometric Immunosensor for Detection of Human Chorionic Gonadotropin. Electroanalysis, 2014, 26, 1481-1487.	1.5	9
30	A compact hybrid-multiplexed potentiostat for real-time electrochemical biosensing applications. Biosensors and Bioelectronics, 2013, 47, 482-489.	5.3	34
31	Spectroscopic and atomic force microscopy characterization of the electrografting of 3,5-bis(4-diazophenoxy)benzoic acid on gold surfaces. Biosensors and Bioelectronics, 2013, 41, 840-843.	5.3	2
32	A bienzymatic amperometric immunosensor exploiting supramolecular construction for ultrasensitive protein detection. Chemical Communications, 2012, 48, 1045-1047.	2.2	13
33	Electrochemical genosensor array for the simultaneous detection of multiple high-risk human papillomavirus sequences in clinical samples. Analytica Chimica Acta, 2012, 715, 93-98.	2.6	46
34	Evaluation of techniques for generation of single-stranded DNA for quantitative detection. Analytical Biochemistry, 2012, 431, 132-138.	1.1	32
35	Highly sensitive colorimetric enzyme-linked oligonucleotide assay based on cyclodextrin-modified polymeric surfaces. Analytical and Bioanalytical Chemistry, 2012, 403, 195-202.	1.9	7
36	Supramolecular confinement of polymeric electron transfer mediator on gold surface for picomolar detection of DNA. Soft Matter, 2011, 7, 10925.	1.2	10

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37	Amperometric detection of antibodies in serum: performance of self-assembled cyclodextrin/cellulose polymer interfaces as antigen carriers. Organic and Biomolecular Chemistry, 2011, 9, 4770.	1.5	16
38	Integrated microfluidic platform for the electrochemical detection of breast cancer markers in patient serum samples. Lab on A Chip, 2011, 11, 625-631.	3.1	67
39	Signal-Enhancing Thermosensitive Liposomes for Highly Sensitive Immunosensor Development. Analytical Chemistry, 2011, 83, 563-570.	3.2	34
40	Detection of Antigliadin Autoantibodies in Celiac Patient Samples Using a Cyclodextrin-Based Supramolecular Biosensor. Analytical Chemistry, 2011, 83, 2931-2938.	3.2	49
41	Multilayered catalytic biosensor self-assembled on cyclodextrin-modified surfaces. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2011, 69, 355-360.	1.6	13
42	Automated microsystem for electrochemical detection of cancer markers. Electrophoresis, 2011, 32, 926-930.	1.3	30
43	Amperometric supramolecular genosensor self-assembled on cyclodextrin-modified surfaces. Electrochemistry Communications, 2011, 13, 578-581.	2.3	11
44	Elucidation of the mechanism of single-stranded DNA interaction with methylene blue: A spectroscopic approach. Journal of Photochemistry and Photobiology A: Chemistry, 2011, 218, 26-32.	2.0	56
45	Storage Properties of Peroxidase Labeled Antibodies for the Development of Multiplexed Packaged Immunosensors for Cancer Markers. Analytical Letters, 2011, 44, 2019-2030.	1.0	6
46	Electrochemical biosensor for the multiplexed detection of human papillomavirus genes. Biosensors and Bioelectronics, 2010, 26, 1684-1687.	5.3	45
47	Thermal stability of diazonium derived and thiol-derived layers on gold for application in genosensors. Electrochemistry Communications, 2010, 12, 1045-1048.	2.3	54
48	Development of an integrated microsystem for the multiplexed detection of breast cancer markers in serum using electrochemical immunosensors. , 2010, , .		0
49	Amperometric Immunosensor for Carcinoembryonic Antigen in Colon Cancer Samples Based on Monolayers of Dendritic Bipodal Scaffolds. Analytical Chemistry, 2010, 82, 1712-1719.	3.2	92
50	Design and testing of a packaged microfluidic cell for the multiplexed electrochemical detection of cancer markers. Electrophoresis, 2009, 30, 3398-3405.	1.3	45
51	Layer-by-layer self-assembly of peroxidase on gold electrodes based on complementary cyclodextrinâ€“adamantane supramolecular interactions. Soft Matter, 2009, 5, 400-406.	1.2	28
52	Amperometric Immunosensor for Detection of Celiac Disease Toxic Gliadin Based on Fab Fragments. Analytical Chemistry, 2009, 81, 5299-5307.	3.2	59
53	Electron Permeable Self-Assembled Monolayers of Dithiolated Aromatic Scaffolds on Gold for Biosensor Applications. Analytical Chemistry, 2008, 80, 2556-2563.	3.2	86
54	Nitric oxide binding and photodelivery based on ruthenium(ii) complexes of 4-arylazo-3,5-dimethylpyrazole. Dalton Transactions, 2008, , 3559.	1.6	21

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55	Amperometric sensing of ascorbic acid using a disposable screen-printed electrode modified with electrografted o-aminophenol film. Analyst, The, 2008, 133, 1736.	1.7	40
56	Amperometric Determination of Ascorbic Acid in Real Samples Using a Disposable Screen-Printed Electrode Modified with Electrografted o-Aminophenol Film. Journal of Agricultural and Food Chemistry, 2008, 56, 10452-10455.	2.4	34
57	Synthesis and Reactivity of Functionalized Bridged m-Xylylenedioxycalix[6]arenes. Journal of Organic Chemistry, 2008, 73, 7124-7131.	1.7	8
58	Electrochemical Immunosensor for Detection of Celiac Disease Toxic Gliadin in Foodstuff. Analytical Chemistry, 2008, 80, 9265-9271.	3.2	73
59	Supramolecular Chemistry of Cyclodextrins in Enzyme Technology. Chemical Reviews, 2007, 107, 3088-3116.	23.0	354
60	Selective Binding and Easy Separation of C70 by Nanoscale Self-Assembled Capsules. Angewandte Chemie - International Edition, 2007, 46, 202-205.	7.2	124
61	Preparation of Î²-Cyclodextrin-Dextran Polymers and their Use as Supramolecular Carrier Systems for Naproxen. Polymer Bulletin, 2007, 59, 597-605.	1.7	16
62	Arylâ^'Aryl Linked Bi-5,5â€˜-p-tert-butylcalix[4]arene Tweezer for Fullerene Complexation. Organic Letters, 2006, 8, 2571-2574.	2.4	36
63	Cyclodextrin-grafted polysaccharides as supramolecular carrier systems for naproxen. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 1499-1501.	1.0	33
64	Improved Anti-Inflammatory Properties for Naproxen with Cyclodextrin-Grafted Polysaccharides. Macromolecular Bioscience, 2006, 6, 555-561.	2.1	22
65	Stabilization of Î±-chymotrypsin by chemical modification with monoamine cyclodextrin. Process Biochemistry, 2005, 40, 2091-2094.	1.8	17
66	Chemical glycosidation of trypsin with Oâ€carboxymethylâ€polyâ€Î²â€cyclodextrin: catalytic and stability properties. Biotechnology and Applied Biochemistry, 2005, 41, 217-223.	1.4	19
67	Supramolecular assembly of Î²-cyclodextrin-modified gold nanoparticles and Cu, Zn-superoxide dismutase on catalase. Journal of Molecular Catalysis B: Enzymatic, 2005, 35, 79-85.	1.8	41
68	Noncovalent Immobilization of C60on Gold Surfaces by SAMs of Cyclotriveratrylene Derivatives. Chemistry of Materials, 2005, 17, 2063-2068.	3.2	36
69	Supramolecular-mediated Immobilization of Trypsin on Cyclodextrin-modified Gold Nanospheres. Supramolecular Chemistry, 2005, 17, 387-391.	1.5	12
70	Functional properties and application in peptide synthesis of trypsin modified with cyclodextrin-containing dicarboxylic acids. Journal of Molecular Catalysis B: Enzymatic, 2004, 31, 47-52.	1.8	22
71	Î±-Chymotrypsin stabilization by chemical conjugation with O-carboxymethyl-poly-Î²-cyclodextrin. Process Biochemistry, 2004, 39, 535-539.	1.8	30
72	Effect of Î²-cyclodextrin-polysucrose polymer on the stability properties of soluble trypsin. Enzyme and Microbial Technology, 2004, 34, 78-82.	1.6	21

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73	Esterase activity of cyclodextrin dithiocarbamates. Tetrahedron Letters, 2004, 45, 4069-4071.	0.7	12
74	Electron paramagnetic resonance studies on copper(ii)â€“cyclodextrin systems. Dalton Transactions, 2004, , 1456-1460.	1.6	9
75	A supramolecular approach to the selective detection of dopamine in the presence of ascorbate. Chemical Communications, 2004, , 2230-2231.	2.2	38
76	Thermal stabilization of trypsin by enzymic modification with Î²-cyclodextrin derivatives. Biotechnology and Applied Biochemistry, 2003, 38, 53.	1.4	42
77	Improved functional properties of trypsin modified by monosubstituted amino-Î²-cyclodextrins. Journal of Molecular Catalysis B: Enzymatic, 2003, 21, 133-141.	1.8	34
78	Transglutaminase-catalyzed synthesis of trypsin-cyclodextrin conjugates: Kinetics and stability properties. Biotechnology and Bioengineering, 2003, 81, 732-737.	1.7	57
79	Effects of Î²-cyclodextrin-dextran polymer on stability properties of trypsin. Biotechnology and Bioengineering, 2003, 83, 743-747.	1.7	18
80	Complexation of Bis(morpholyldithiocarbamato)copper(II), a Superoxide Scavenger, in Î²-Cyclodextrins. Supramolecular Chemistry, 2003, 15, 171-175.	1.5	14
81	Functional Stabilization of Trypsin by Conjugation with Î²-Cyclodextrin-Modified Carboxymethylcellulose. Preparative Biochemistry and Biotechnology, 2003, 33, 53-66.	1.0	21
82	Molecular Recognition of Aromatic Nitro Compounds at Cyclodextrin Dithiocarbamate-modified Electrodes. Supramolecular Chemistry, 2003, 15, 417-423.	1.5	4
83	Supramolecular Chemistry of Cyclodextrins in Cuba. Supramolecular Chemistry, 2003, 15, 161-170.	1.5	6
84	Immobilization of Adamantane-Modified Cytochromecat Electrode Surfaces through Supramolecular Interactions. Langmuir, 2002, 18, 5051-5054.	1.6	88
85	Chemical conjugation of trypsin with monoamine derivatives of cyclodextrins. Enzyme and Microbial Technology, 2002, 31, 543-548.	1.6	33
86	Stabilization of trypsin by chemical modification with Î²-cyclodextrin monoaldehyde. Biotechnology Letters, 2002, 24, 1455-1459.	1.1	27
87	Title is missing!. Biotechnology Letters, 2002, 24, 1665-1668.	1.1	23
88	Stabilization of Î±-chymotrypsin by modification with Î²-cyclodextrin derivatives. Biotechnology and Applied Biochemistry, 2002, 36, 235.	1.4	20
89	Influence of Electrostatic Interactions and Hydrogen Bonding on the Activity of Cyclodextrin-based Superoxide Dismutase Models. Supramolecular Chemistry, 2001, 13, 619-625.	1.5	7
90	Chiral channels in a 3-D network of self-assembled tetranuclear copper(ii) aggregates. Chemical Communications, 2000, , 1547-1548.	2.2	41

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91	Interpretation of the sod-like activity of a series of copper(II) complexes with thiosemicarbazones. Inorganic Chemistry Communication, 1999, 2, 361-363.	1.8	27
92	Molecular recognition of a self-assembled monolayer of a polydithiocarbamate derivative of Î²-cyclodextrin on silver1Presented in part at the 9th International Symposium on Cyclodextrins, Santiago de Compostela, Spain, 31 Mayâ€“3 June 1998.1. Electrochemistry Communications, 1999, 1, 10-13.	2.3	25
93	Kinetic Effects on the Dismutation of Superoxide Radical by Copper(II) Complexes of Cyclodextrin-Based Sod Models. , 1999, , 537-540.		0
94	Synthesis and SOD-Like Activity of Monosaccharide Derived Thiosemicarbazones. Journal of Carbohydrate Chemistry, 1998, 17, 293-303.	0.4	18
95	Influence of Positively-Charged Guests on the Superoxide Dismutase Mimetic Activity of Copper(II) Î²-Cyclodextrin Dithiocarbamates¹. Journal of Carbohydrate Chemistry, 1997, 16, 171-180.	0.4	16
96	Determination of SOD-Like activity of Copper(II) complexes with Î±-Amino acid dithiocarbamates. Journal of Inorganic Biochemistry, 1997, 66, 213-217.	1.5	20
97	Superoxide Dismutase Mimetic Activity of the Metal (II) Complexes of a Dithiocarbamate Derivative of Î²-Cyclodextrin¹. Journal of Carbohydrate Chemistry, 1995, 14, 1379-1386.	0.4	33