

Alex Fragoso

List of Publications by Year in descending order

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papers

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126708

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docs citations

102
times ranked

3801
citing authors

#	ARTICLE	IF	CITATIONS
1	Supramolecular Chemistry of Cyclodextrins in Enzyme Technology. <i>Chemical Reviews</i> , 2007, 107, 3088-3116.	23.0	354
2	Selective Binding and Easy Separation of C70 by Nanoscale Self-Assembled Capsules. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 202-205.	7.2	124
3	Amperometric Immunosensor for Carcinoembryonic Antigen in Colon Cancer Samples Based on Monolayers of Dendritic Bipodal Scaffolds. <i>Analytical Chemistry</i> , 2010, 82, 1712-1719.	3.2	92
4	Immobilization of Adamantane-Modified Cytochrome c Electrode Surfaces through Supramolecular Interactions. <i>Langmuir</i> , 2002, 18, 5051-5054.	1.6	88
5	Electron Permeable Self-Assembled Monolayers of Dithiolated Aromatic Scaffolds on Gold for Biosensor Applications. <i>Analytical Chemistry</i> , 2008, 80, 2556-2563.	3.2	86
6	Reactive Carbon Nano-Onion Modified Glassy Carbon Surfaces as DNA Sensors for Human Papillomavirus Oncogene Detection with Enhanced Sensitivity. <i>Analytical Chemistry</i> , 2015, 87, 6744-6751.	3.2	75
7	Electrochemical Immunosensor for Detection of Celiac Disease Toxic Gliadin in Foodstuff. <i>Analytical Chemistry</i> , 2008, 80, 9265-9271.	3.2	73
8	Integrated microfluidic platform for the electrochemical detection of breast cancer markers in patient serum samples. <i>Lab on A Chip</i> , 2011, 11, 625-631.	3.1	67
9	Amperometric Immunosensor for Detection of Celiac Disease Toxic Gliadin Based on Fab Fragments. <i>Analytical Chemistry</i> , 2009, 81, 5299-5307.	3.2	59
10	Transglutaminase-catalyzed synthesis of trypsin-cyclodextrin conjugates: Kinetics and stability properties. <i>Biotechnology and Bioengineering</i> , 2003, 81, 732-737.	1.7	57
11	Elucidation of the mechanism of single-stranded DNA interaction with methylene blue: A spectroscopic approach. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2011, 218, 26-32.	2.0	56
12	Thermal stability of diazonium derived and thiol-derived layers on gold for application in genosensors. <i>Electrochemistry Communications</i> , 2010, 12, 1045-1048.	2.3	54
13	Preparation of stimuli-responsive nano-sized capsules based on cyclodextrin polymers with redox or light switching properties. <i>Nano Research</i> , 2016, 9, 2070-2078.	5.8	51
14	Detection of Antigliadin Autoantibodies in Celiac Patient Samples Using a Cyclodextrin-Based Supramolecular Biosensor. <i>Analytical Chemistry</i> , 2011, 83, 2931-2938.	3.2	49
15	Electrochemical genosensor array for the simultaneous detection of multiple high-risk human papillomavirus sequences in clinical samples. <i>Analytica Chimica Acta</i> , 2012, 715, 93-98.	2.6	46
16	Design and testing of a packaged microfluidic cell for the multiplexed electrochemical detection of cancer markers. <i>Electrophoresis</i> , 2009, 30, 3398-3405.	1.3	45
17	Electrochemical biosensor for the multiplexed detection of human papillomavirus genes. <i>Biosensors and Bioelectronics</i> , 2010, 26, 1684-1687.	5.3	45
18	A wide-range solid state potentiometric pH sensor based on poly-dopamine coated carbon nano-onion electrodes. <i>Sensors and Actuators B: Chemical</i> , 2018, 273, 664-671.	4.0	45

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19	Amperometric biosensor for glyphosate based on the inhibition of tyrosinase conjugated to carbon nano-onions in a chitosan matrix on a screen-printed electrode. <i>Mikrochimica Acta</i> , 2019, 186, 569.	2.5	43
20	Thermal stabilization of trypsin by enzymic modification with β -cyclodextrin derivatives. <i>Biotechnology and Applied Biochemistry</i> , 2003, 38, 53.	1.4	42
21	Chiral channels in a 3-D network of self-assembled tetranuclear copper(ii) aggregates. <i>Chemical Communications</i> , 2000, , 1547-1548.	2.2	41
22	Supramolecular assembly of β -cyclodextrin-modified gold nanoparticles and Cu, Zn-superoxide dismutase on catalase. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2005, 35, 79-85.	1.8	41
23	Amperometric sensing of ascorbic acid using a disposable screen-printed electrode modified with electrografted o-aminophenol film. <i>Analyst</i> , The, 2008, 133, 1736.	1.7	40
24	A supramolecular approach to the selective detection of dopamine in the presence of ascorbate. <i>Chemical Communications</i> , 2004, , 2230-2231.	2.2	38
25	Noncovalent Immobilization of C60on Gold Surfaces by SAMs of Cyclotrimeratrylene Derivatives. <i>Chemistry of Materials</i> , 2005, 17, 2063-2068.	3.2	36
26	Aryl ⁺ Aryl Linked Bi-5,5 ⁻ -p-tert-butylcalix[4]arene Tweezer for Fullerene Complexation. <i>Organic Letters</i> , 2006, 8, 2571-2574.	2.4	36
27	Supramolecular Solubilization of Cyclodextrin-Modified Carbon Nano-Onions by Host ⁺ Guest Interactions. <i>Langmuir</i> , 2015, 31, 535-541.	1.6	36
28	Improved functional properties of trypsin modified by monosubstituted amino- β -cyclodextrins. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2003, 21, 133-141.	1.8	34
29	Amperometric Determination of Ascorbic Acid in Real Samples Using a Disposable Screen-Printed Electrode Modified with Electrografted <i>o</i> -Aminophenol Film. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 10452-10455.	2.4	34
30	Signal-Enhancing Thermosensitive Liposomes for Highly Sensitive Immunosensor Development. <i>Analytical Chemistry</i> , 2011, 83, 563-570.	3.2	34
31	A compact hybrid-multiplexed potentiostat for real-time electrochemical biosensing applications. <i>Biosensors and Bioelectronics</i> , 2013, 47, 482-489.	5.3	34
32	Superoxide Dismutase Mimetic Activity of the Metal (II) Complexes of a Dithiocarbamate Derivative of β -Cyclodextrin ¹ . <i>Journal of Carbohydrate Chemistry</i> , 1995, 14, 1379-1386.	0.4	33
33	Chemical conjugation of trypsin with monoamine derivatives of cyclodextrins. <i>Enzyme and Microbial Technology</i> , 2002, 31, 543-548.	1.6	33
34	Cyclodextrin-grafted polysaccharides as supramolecular carrier systems for naproxen. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2006, 16, 1499-1501.	1.0	33
35	Evaluation of techniques for generation of single-stranded DNA for quantitative detection. <i>Analytical Biochemistry</i> , 2012, 431, 132-138.	1.1	32
36	Electrochemical detection of nitrite and ascorbic acid at glassy carbon electrodes modified with carbon nano-onions bearing electroactive moieties. <i>Inorganica Chimica Acta</i> , 2017, 468, 223-231.	1.2	32

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37	$\hat{\Gamma}$ -Chymotrypsin stabilization by chemical conjugation with O-carboxymethyl-poly- $\hat{\Gamma}$ -cyclodextrin. <i>Process Biochemistry</i> , 2004, 39, 535-539.	1.8	30
38	Automated microsystem for electrochemical detection of cancer markers. <i>Electrophoresis</i> , 2011, 32, 926-930.	1.3	30
39	Layer-by-layer self-assembly of peroxidase on gold electrodes based on complementary cyclodextrin-adamantane supramolecular interactions. <i>Soft Matter</i> , 2009, 5, 400-406.	1.2	28
40	Interpretation of the sod-like activity of a series of copper(II) complexes with thiosemicarbazones. <i>Inorganic Chemistry Communication</i> , 1999, 2, 361-363.	1.8	27
41	Stabilization of trypsin by chemical modification with $\hat{\Gamma}$ -cyclodextrin monoaldehyde. <i>Biotechnology Letters</i> , 2002, 24, 1455-1459.	1.1	27
42	Molecular recognition of a self-assembled monolayer of a polydithiocarbamate derivative of $\hat{\Gamma}$ -cyclodextrin on silver. Presented in part at the 9th International Symposium on Cyclodextrins, Santiago de Compostela, Spain, 31 May-3 June 1998.1. <i>Electrochemistry Communications</i> , 1999, 1, 10-13.	2.3	25
43	Supramolecular biosensors based on electropolymerised pyrrole-cyclodextrin modified surfaces for antibody detection. <i>Analyst</i> , 2016, 141, 3274-3279.	1.7	25
44	Preparation and characterization of alkaline phosphatase, horseradish peroxidase, and glucose oxidase conjugates with carboxylated carbon nano-onions. <i>Preparative Biochemistry and Biotechnology</i> , 2018, 48, 136-143.	1.0	24
45	Development of highly sensitive IgA immunosensors based on co-electropolymerized L-DOPA/dopamine carbon nano-ion modified electrodes. <i>Biosensors and Bioelectronics</i> , 2019, 141, 111357.	5.3	24
46	Title is missing!. <i>Biotechnology Letters</i> , 2002, 24, 1665-1668.	1.1	23
47	Functional properties and application in peptide synthesis of trypsin modified with cyclodextrin-containing dicarboxylic acids. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2004, 31, 47-52.	1.8	22
48	Improved Anti-Inflammatory Properties for Naproxen with Cyclodextrin-Grafted Polysaccharides. <i>Macromolecular Bioscience</i> , 2006, 6, 555-561.	2.1	22
49	Determination of the Hansen solubility parameters of carbon nano-onions and prediction of their dispersibility in organic solvents. <i>Journal of Molecular Liquids</i> , 2019, 294, 111646.	2.3	22
50	Functional Stabilization of Trypsin by Conjugation with $\hat{\Gamma}$ -Cyclodextrin-Modified Carboxymethylcellulose. <i>Preparative Biochemistry and Biotechnology</i> , 2003, 33, 53-66.	1.0	21
51	Effect of $\hat{\Gamma}$ -cyclodextrin-polysucrose polymer on the stability properties of soluble trypsin. <i>Enzyme and Microbial Technology</i> , 2004, 34, 78-82.	1.6	21
52	Nitric oxide binding and photodelivery based on ruthenium(ii) complexes of 4-arylazo-3,5-dimethylpyrazole. <i>Dalton Transactions</i> , 2008, , 3559.	1.6	21
53	Peroxidase-encapsulated cyclodextrin nanosponge immunoconjugates as a signal enhancement tool in optical and electrochemical assays. <i>Analyst</i> , 2014, 139, 375-380.	1.7	21
54	Determination of SOD-Like activity of Copper(II) complexes with $\hat{\Gamma}$ -Amino acid dithiocarbamates. <i>Journal of Inorganic Biochemistry</i> , 1997, 66, 213-217.	1.5	20

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55	Stabilization of $\hat{1}\pm$ -chymotrypsin by modification with $\hat{1}^2$ -cyclodextrin derivatives. <i>Biotechnology and Applied Biochemistry</i> , 2002, 36, 235.	1.4	20
56	Chemical glycosidation of trypsin with $\hat{1}^2$ -carboxymethyl- $\hat{1}^2$ -cyclodextrin: catalytic and stability properties. <i>Biotechnology and Applied Biochemistry</i> , 2005, 41, 217-223.	1.4	19
57	Synthesis and SOD-Like Activity of Monosaccharide Derived Thiosemicarbazones. <i>Journal of Carbohydrate Chemistry</i> , 1998, 17, 293-303.	0.4	18
58	Effects of $\hat{1}^2$ -cyclodextrin-dextran polymer on stability properties of trypsin. <i>Biotechnology and Bioengineering</i> , 2003, 83, 743-747.	1.7	18
59	Stabilization of $\hat{1}\pm$ -chymotrypsin by chemical modification with monoamine cyclodextrin. <i>Process Biochemistry</i> , 2005, 40, 2091-2094.	1.8	17
60	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. <i>International Journal of Biological Macromolecules</i> , 2018, 118, 427-434.	3.6	17
61	Electrochemistry of redox probes at thin films of carbon nano-onions produced by thermal annealing of nanodiamonds. <i>Electrochimica Acta</i> , 2020, 353, 136495.	2.6	17
62	Influence of Positively-Charged Guests on the Superoxide Dismutase Mimetic Activity of Copper(II) $\hat{1}^2$ -Cyclodextrin Dithiocarbamates ¹ . <i>Journal of Carbohydrate Chemistry</i> , 1997, 16, 171-180.	0.4	16
63	Preparation of $\hat{1}^2$ -Cyclodextrin-Dextran Polymers and their Use as Supramolecular Carrier Systems for Naproxen. <i>Polymer Bulletin</i> , 2007, 59, 597-605.	1.7	16
64	Amperometric detection of antibodies in serum: performance of self-assembled cyclodextrin/cellulose polymer interfaces as antigen carriers. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 4770.	1.5	16
65	Preparation and characterization of carbon nano-onions by nanodiamond annealing and functionalization by radio-frequency Ar/O ₂ plasma. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2017, 25, 327-334.	1.0	16
66	Site-directed introduction of disulfide groups on antibodies for highly sensitive immunosensors. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 5337-5346.	1.9	15
67	Complexation of Bis(morpholyldithiocarbamato)copper(II), a Superoxide Scavenger, in $\hat{1}^2$ -Cyclodextrins. <i>Supramolecular Chemistry</i> , 2003, 15, 171-175.	1.5	14
68	Preparation of stable aqueous dispersions of carbon nano-onions via supramolecular crown ether-ammonium interactions with aminated biocompatible polymers. <i>Journal of Molecular Liquids</i> , 2018, 269, 905-911.	2.3	14
69	Multilayered catalytic biosensor self-assembled on cyclodextrin-modified surfaces. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2011, 69, 355-360.	1.6	13
70	A bienzymatic amperometric immunosensor exploiting supramolecular construction for ultrasensitive protein detection. <i>Chemical Communications</i> , 2012, 48, 1045-1047.	2.2	13
71	Esterase activity of cyclodextrin dithiocarbamates. <i>Tetrahedron Letters</i> , 2004, 45, 4069-4071.	0.7	12
72	Supramolecular-mediated Immobilization of Trypsin on Cyclodextrin-modified Gold Nanospheres. <i>Supramolecular Chemistry</i> , 2005, 17, 387-391.	1.5	12

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73	Amperometric supramolecular genosensor self-assembled on cyclodextrin-modified surfaces. <i>Electrochemistry Communications</i> , 2011, 13, 578-581.	2.3	11
74	Electrochemical characterisation of the adsorption of ferrocenemethanol on carbon nano-onion modified electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2020, 871, 114314.	1.9	11
75	Supramolecular confinement of polymeric electron transfer mediator on gold surface for picomolar detection of DNA. <i>Soft Matter</i> , 2011, 7, 10925.	1.2	10
76	Band structure, work function and interfacial diagrams of oxygen-functionalized carbon nano-onions. <i>Synthetic Metals</i> , 2020, 266, 116434.	2.1	10
77	Carbon Nano-Onion Peroxidase Composite Biosensor for Electrochemical Detection of 2,4-D and 2,4,5-T. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 6889.	1.3	10
78	Electron paramagnetic resonance studies on copper(ii)-cyclodextrin systems. <i>Dalton Transactions</i> , 2004, , 1456-1460.	1.6	9
79	Supramolecular Amperometric Immunosensor for Detection of Human Chorionic Gonadotropin. <i>Electroanalysis</i> , 2014, 26, 1481-1487.	1.5	9
80	Synthesis and Reactivity of Functionalized Bridged m-Xylylenedioxycalix[6]arenes. <i>Journal of Organic Chemistry</i> , 2008, 73, 7124-7131.	1.7	8
81	Influence of Electrostatic Interactions and Hydrogen Bonding on the Activity of Cyclodextrin-based Superoxide Dismutase Models. <i>Supramolecular Chemistry</i> , 2001, 13, 619-625.	1.5	7
82	Highly sensitive colorimetric enzyme-linked oligonucleotide assay based on cyclodextrin-modified polymeric surfaces. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 195-202.	1.9	7
83	Experimental and Numerical Simulation Study of the Vibration Properties of Thin Copper Films Bonded to FR4 Composite. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 5197.	1.3	7
84	Supramolecular Chemistry of Cyclodextrins in Cuba. <i>Supramolecular Chemistry</i> , 2003, 15, 161-170.	1.5	6
85	Storage Properties of Peroxidase Labeled Antibodies for the Development of Multiplexed Packaged Immunosensors for Cancer Markers. <i>Analytical Letters</i> , 2011, 44, 2019-2030.	1.0	6
86	Thiolated amphiphilic β -cyclodextrin-decorated gold colloids: Synthesis, supramolecular nanoassemblies and controlled release of dopamine. <i>Journal of Molecular Liquids</i> , 2021, 336, 116880.	2.3	5
87	Molecular Recognition of Aromatic Nitro Compounds at Cyclodextrin Dithiocarbamate-modified Electrodes. <i>Supramolecular Chemistry</i> , 2003, 15, 417-423.	1.5	4
88	Template-Assisted Preparation of Permeable Nanocapsules from Complementary Cyclodextrin and Adamantane-Appended Biocompatible Dextran Polymers. <i>Macromolecular Materials and Engineering</i> , 2015, 300, 878-884.	1.7	4
89	Bleed-Read disposable microsystems for the genetic and serological analysis of celiac disease markers with amperometric detection. <i>Electrophoresis</i> , 2015, 36, 1920-1926.	1.3	4
90	Fabrication of a Stainless-Steel Pump Impeller by Integrated 3D Sand Printing and Casting: Mechanical Characterization and Performance Study in a Chemical Plant. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 3539.	1.3	4

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91	Amperometric Detection of Creatinine in Clinical Samples Based on Gold Electrode Arrays Fabricated Using Printed Circuit Board Technology. <i>Electroanalysis</i> , 2020, 32, 3054-3059.	1.5	3
92	Cyclodextrin polymers as passive sampling materials for lipophilic marine toxins in <i>Prorocentrum lima</i> cultures and a <i>Dinophysis sacculus</i> bloom in the NW Mediterranean Sea. <i>Chemosphere</i> , 2021, 285, 131464.	4.2	3
93	Spectroscopic and atomic force microscopy characterization of the electrografting of 3,5-bis(4-diazophenoxy)benzoic acid on gold surfaces. <i>Biosensors and Bioelectronics</i> , 2013, 41, 840-843.	5.3	2
94	Supramolecular Complexes of Plant Neurotoxin Veratridine with Cyclodextrins and Their Antidote-like Effect on Neuro-2a Cell Viability. <i>Pharmaceutics</i> , 2022, 14, 598.	2.0	2
95	Experimental and theoretical characterization of a novel bis- π -pyrazoymethane ligand. <i>Magnetic Resonance in Chemistry</i> , 2015, 53, 539-543.	1.1	1
96	Development of an integrated microsystem for the multiplexed detection of breast cancer markers in serum using electrochemical immunosensors. , 2010, , .		0
97	Kinetic Effects on the Dismutation of Superoxide Radical by Copper(II) Complexes of Cyclodextrin-Based Sod Models. , 1999, , 537-540.		0