

Leonidas G Bachas

List of Publications by Year in descending order

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183
papers

8,117
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82
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188
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188
docs citations

188
times ranked

10369
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Aligned Multiwalled Carbon Nanotube Membranes. <i>Science</i> , 2004, 303, 62-65. | 6.0 | 1,251 |
| 2 | Genetically engineered protein in hydrogels tailors stimuli-responsive characteristics. <i>Nature Materials</i> , 2005, 4, 298-302. | 13.3 | 273 |
| 3 | Oriented immobilization of proteins. <i>Mikrochimica Acta</i> , 1998, 128, 127-143. | 2.5 | 239 |
| 4 | Nitrate-Selective Electrode Developed by Electrochemically Mediated Imprinting/Doping of Polypyrrole. <i>Analytical Chemistry</i> , 1995, 67, 1654-1660. | 3.2 | 238 |
| 5 | Reactive nanostructured membranes for water purification. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 8577-8582. | 3.3 | 160 |
| 6 | Anion-selective electrodes based on electropolymerized porphyrin films. <i>Analytical Chemistry</i> , 1991, 63, 1676-1679. | 3.2 | 151 |
| 7 | Alumina nanoparticles induce expression of endothelial cell adhesion molecules. <i>Toxicology Letters</i> , 2008, 178, 160-166. | 0.4 | 147 |
| 8 | Ionophore-based ion-selective potentiometric and optical sensors. <i>Analytical and Bioanalytical Chemistry</i> , 2003, 376, 328-341. | 1.9 | 134 |
| 9 | Carbon Nanotube Sol-Gel Composite Materials. <i>Nano Letters</i> , 2001, 1, 719-721. | 4.5 | 130 |
| 10 | Polycysteine and Other Polyamino Acid Functionalized Microfiltration Membranes for Heavy Metal Capture. <i>Environmental Science & Technology</i> , 2001, 35, 3252-3258. | 4.6 | 120 |
| 11 | Catalytic biofunctional membranes containing site-specifically immobilized enzyme arrays: a review. <i>Journal of Membrane Science</i> , 2001, 181, 29-37. | 4.1 | 114 |
| 12 | Carbon nanotube aqueous sol-gel composites: enzyme-friendly platforms for the development of stable biosensors. <i>Analytical Biochemistry</i> , 2004, 329, 247-252. | 1.1 | 114 |
| 13 | Development of a Fully Integrated Analysis System for Ions Based on Ion-Selective Optodes and Centrifugal Microfluidics. <i>Analytical Chemistry</i> , 2001, 73, 3940-3946. | 3.2 | 112 |
| 14 | Mercuracarborand α -Anti-Crown Ether-Based Chloride-Sensitive Liquid/Polymeric Membrane Electrodes. <i>Analytical Chemistry</i> , 1999, 71, 1371-1377. | 3.2 | 104 |
| 15 | Artificial Muscle Material with Fast Electroactuation under Neutral pH Conditions. <i>Chemistry of Materials</i> , 2004, 16, 2499-2502. | 3.2 | 102 |
| 16 | Tripodal Ionophore with Sulfate Recognition Properties for Anion-Selective Electrodes. <i>Analytical Chemistry</i> , 2000, 72, 5295-5299. | 3.2 | 95 |
| 17 | Anion-selective electrodes based on a hydrophobic vitamin B12 derivative. <i>Analytical Chemistry</i> , 1989, 61, 499-503. | 3.2 | 94 |
| 18 | Light-Activated Tandem Catalysis Driven by Multicomponent Nanomaterials. <i>Journal of the American Chemical Society</i> , 2014, 136, 32-35. | 6.6 | 94 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Ion-selective electrodes using an ionophore covalently attached to carboxylated poly(vinyl chloride). <i>Analytical Chemistry</i> , 1990, 62, 1428-1431. | 3.2 | 90 |
| 20 | Functional Oneâ€Dimensional Nanomaterials: Applications in Nanoscale Biosensors. <i>Analytical Letters</i> , 2007, 40, 2067-2096. | 1.0 | 90 |
| 21 | Chelate-Modified Fenton Reaction for the Degradation of Trichloroethylene in Aqueous and Two-Phase Systems. <i>Environmental Engineering Science</i> , 2009, 26, 849-859. | 0.8 | 88 |
| 22 | Aluminaâ”Pepsin Hybrid Nanoparticles with Orientation-Specific Enzyme Coupling. <i>Nano Letters</i> , 2003, 3, 55-58. | 4.5 | 84 |
| 23 | Nutrition Can Modulate the Toxicity of Environmental Pollutants: Implications in Risk Assessment and Human Health. <i>Environmental Health Perspectives</i> , 2012, 120, 771-774. | 2.8 | 83 |
| 24 | Degradation of Trichloroethylene by Iron-Based Bimetallic Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2009, 113, 9454-9464. | 1.5 | 78 |
| 25 | Controlled layer-by-layer immobilization of horseradish peroxidase. , 1999, 65, 389-396. | | 77 |
| 26 | Fluorescent Ion-Selective Optode Membranes Incorporated onto a Centrifugal Microfluidics Platform. <i>Analytical Chemistry</i> , 2002, 74, 5569-5575. | 3.2 | 77 |
| 27 | Improving the Activity of Immobilized Subtilisin by Site-Specific Attachment to Surfaces. <i>Analytical Chemistry</i> , 1997, 69, 4601-4607. | 3.2 | 75 |
| 28 | Potentiometric and fiber optic sensors for pH based on an electropolymerized cobalt porphyrin. <i>Analytical Chemistry</i> , 1993, 65, 2155-2158. | 3.2 | 74 |
| 29 | Pd-decorated m-BiVO ₄ /BiOBr ternary composite with dual heterojunction for enhanced photocatalytic activity. <i>Journal of Materials Chemistry A</i> , 2017, 5, 529-534. | 5.2 | 72 |
| 30 | Triazolophanes: A New Class of Halide-Selective Ionophores for Potentiometric Sensors. <i>Analytical Chemistry</i> , 2010, 82, 368-375. | 3.2 | 70 |
| 31 | Monitoring blood coagulation with magnetoelastic sensors. <i>Biosensors and Bioelectronics</i> , 2003, 18, 675-681. | 5.3 | 68 |
| 32 | Investigation into the Applicability of the Centrifugal Microfluidics Platform for the Development of Proteinâ”Ligand Binding Assays Incorporating Enhanced Green Fluorescent Protein as a Fluorescent Reporter. <i>Analytical Chemistry</i> , 2004, 76, 7263-7268. | 3.2 | 68 |
| 33 | Salicylate-Selective Electrode Based on a Biomimetic Guanidinium Ionophore. <i>Analytical Chemistry</i> , 1997, 69, 1273-1278. | 3.2 | 66 |
| 34 | Nitrite-selective electrode based on an electropolymerized cobalt phthalocyanine. <i>Electroanalysis</i> , 1995, 7, 710-713. | 1.5 | 65 |
| 35 | Polymeric membrane anion-selective electrodes based on diquatery ammonium salts. <i>Analytical Chemistry</i> , 1990, 62, 1506-1510. | 3.2 | 63 |
| 36 | Voltage-switchable artificial muscles actuating at near neutral pH. <i>Sensors and Actuators B: Chemical</i> , 2006, 115, 379-383. | 4.0 | 63 |

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|----|---|------|-----------|
| 37 | Hydroxylated Polychlorinated Biphenyl Detection Based on a Genetically Engineered Bioluminescent Whole-Cell Sensing System. <i>Analytical Chemistry</i> , 2007, 79, 5740-5745. | 3.2 | 61 |
| 38 | Glucose Responsive Hydrogel Networks Based on Protein Recognition. <i>Macromolecular Bioscience</i> , 2009, 9, 864-868. | 2.1 | 61 |
| 39 | Electrochemistry in Nanovials Fabricated by Combining Screen Printing and Laser Micromachining. <i>Analytical Chemistry</i> , 2000, 72, 497-501. | 3.2 | 59 |
| 40 | A Selective Optical Sensor Based on [9]Mercuracarborand-3, a New Type of Ionophore with a Chloride Complexing Cavity. <i>Analytical Chemistry</i> , 2000, 72, 4249-4254. | 3.2 | 57 |
| 41 | Use of a Guanidinium Ionophore in a Hydrogen Sulfite-Selective Electrode. <i>Analytical Chemistry</i> , 1994, 66, 3188-3192. | 3.2 | 55 |
| 42 | Kinetics Studies of Trichlorophenol Destruction by Chelate-Based Fenton Reaction. <i>Environmental Engineering Science</i> , 2005, 22, 756-771. | 0.8 | 54 |
| 43 | Development of a Whole-Cell-Based Biosensor for Detecting Histamine as a Model Toxin. <i>Analytical Chemistry</i> , 2004, 76, 4156-4161. | 3.2 | 51 |
| 44 | Fabrication and Biofunctionalization of Carbon-Encapsulated Au Nanoparticles. <i>Chemistry of Materials</i> , 2009, 21, 1176-1178. | 3.2 | 51 |
| 45 | Potentiometric behavior of electrodes based on overoxidized polypyrrole films. <i>Analytical and Bioanalytical Chemistry</i> , 2002, 372, 786-790. | 1.9 | 48 |
| 46 | Polymeric plasticizer extends the lifetime of PVC-membrane ion-selective electrodes. <i>Analyst, The</i> , 2014, 139, 757-763. | 1.7 | 48 |
| 47 | Carbon nanotube based biomimetic membranes: mimicking protein channels regulated by phosphorylation. <i>Journal of Materials Chemistry</i> , 2007, 17, 1755. | 6.7 | 46 |
| 48 | Selective electrodes for silver and anions based on polymeric membranes containing complexes of triisobutylphosphine sulfide with silver. <i>Analytical Chemistry</i> , 1991, 63, 1585-1589. | 3.2 | 45 |
| 49 | Ion-Selective Electrodes Based on a Pyridyl-Containing Triazolophane: Altering Halide Selectivity by Combining Dipole-Promoted Cooperativity with Hydrogen Bonding. <i>Analytical Chemistry</i> , 2011, 83, 3455-3461. | 3.2 | 45 |
| 50 | Reductive dechlorination of 3,3,4,4-tetrachlorobiphenyl (PCB77) using palladium or palladium/iron nanoparticles and assessment of the reduction in toxic potency in vascular endothelial cells. <i>Journal of Hazardous Materials</i> , 2008, 159, 483-491. | 6.5 | 44 |
| 51 | Biosensor for Asparagine Using a Thermostable Recombinant Asparaginase from <i>Archaeoglobus fulgidus</i> . <i>Analytical Chemistry</i> , 2002, 74, 3336-3341. | 3.2 | 43 |
| 52 | Improving the Blood Compatibility of Ion-Selective Electrodes by Employing Poly(MPC-co-BMA), a Copolymer Containing Phosphorylcholine, as a Membrane Coating. <i>Analytical Chemistry</i> , 2002, 74, 3644-3648. | 3.2 | 42 |
| 53 | Metal oxide semiconductor nanomaterial for reductive debromination: Visible light degradation of polybrominated diphenyl ethers by Cu ₂ O@Pd nanostructures. <i>Applied Catalysis B: Environmental</i> , 2017, 213, 147-154. | 10.8 | 42 |
| 54 | Theoretical models for predicting the effect of bridging group recognition and conjugate substitution on hapten enzyme immunoassay dose-response curves. <i>Analytical Biochemistry</i> , 1986, 156, 223-238. | 1.1 | 40 |

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|----|---|-----|-----------|
| 55 | Anion-selective electrodes based on a gold(III)-triisobutylphosphine sulfide complex. <i>Analyst</i> , The, 1994, 119, 2421. | 1.7 | 38 |
| 56 | Nitrogen oxide gas sensor based on a nitrite-selective electrode. <i>Analytical Chemistry</i> , 1991, 63, 1278-1281. | 3.2 | 36 |
| 57 | Preorganized composite material of polyaniline-palladium nanoparticles with high electrocatalytic activity to methanol and ethanol oxidation. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 6745-6753. | 3.8 | 36 |
| 58 | Fiber-optic probes for cyanide using metalloporphyrins and a corrin. <i>Analytica Chimica Acta</i> , 1990, 241, 119-125. | 2.6 | 34 |
| 59 | Biotin-Modified Surfaces by Electrochemical Polymerization of Biotinyl-Tyramide. <i>Electroanalysis</i> , 1998, 10, 58-60. | 1.5 | 34 |
| 60 | Orientation Specific Immobilization of Organophosphorus Hydrolase on Magnetic Particles through Gene Fusion. <i>Biomacromolecules</i> , 2001, 2, 700-705. | 2.6 | 34 |
| 61 | Peer Reviewed: Responsive Drug Delivery Systems. <i>Analytical Chemistry</i> , 2003, 75, 206 A-213 A. | 3.2 | 34 |
| 62 | Centrifugal Microfluidics with Integrated Sensing Microdome Optodes for Multiion Detection. <i>Analytical Chemistry</i> , 2007, 79, 8046-8054. | 3.2 | 34 |
| 63 | Direct Synthetic Control over the Size, Composition, and Photocatalytic Activity of Octahedral Copper Oxide Materials: Correlation Between Surface Structure and Catalytic Functionality. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 13238-13250. | 4.0 | 34 |
| 64 | Vitamin B12 derivatives as anion carriers in transport through supported liquid membranes and correlation with their behavior in ion-selective electrodes. <i>Analytical Chemistry</i> , 1993, 65, 1533-1536. | 3.2 | 33 |
| 65 | Effect of Surface-Attached Heparin on the Response of Potassium-Selective Electrodes. <i>Analytical Chemistry</i> , 1996, 68, 1439-1443. | 3.2 | 33 |
| 66 | Coplanar polychlorinated biphenyl-induced CYP1A1 is regulated through caveolae signaling in vascular endothelial cells. <i>Chemico-Biological Interactions</i> , 2008, 176, 71-78. | 1.7 | 33 |
| 67 | Enhancing the blood compatibility of ion-selective electrodes. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 384, 65-72. | 1.9 | 32 |
| 68 | Selected Chloro-Organic Detoxifications by Polychelate (Poly(acrylic acid)) and Citrate-Based Fenton Reaction at Neutral pH Environment. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 7984-7992. | 1.8 | 32 |
| 69 | Microfluidic ion-sensing devices. <i>Analytica Chimica Acta</i> , 2008, 613, 20-30. | 2.6 | 32 |
| 70 | Cyanostar: C-H Hydrogen Bonding Neutral Carrier Scaffold for Anion-Selective Sensors. <i>Analytical Chemistry</i> , 2018, 90, 1925-1933. | 3.2 | 32 |
| 71 | Kinetic Studies of Site-Specifically and Randomly Immobilized Alkaline Phosphatase on Functionalized Membranes. <i>Journal of Chemical Technology and Biotechnology</i> , 1997, 68, 294-302. | 1.6 | 31 |
| 72 | Hybrid Nanoparticles Based on Organized Protein Immobilization on Fullerenes. <i>Bioconjugate Chemistry</i> , 2004, 15, 12-15. | 1.8 | 31 |

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|----|--|-----|-----------|
| 73 | Enhanced Affinity Bifunctional Bisphosphonates for Targeted Delivery of Therapeutic Agents to Bone. <i>Bioconjugate Chemistry</i> , 2011, 22, 2496-2506. | 1.8 | 31 |
| 74 | Oriented Immobilization of Proteins on Hydroxyapatite Surface Using Bifunctional Bisphosphonates as Linkers. <i>Biomacromolecules</i> , 2012, 13, 1742-1749. | 2.6 | 31 |
| 75 | Reactivity of Pd/Fe bimetallic nanotubes in dechlorination of coplanar polychlorinated biphenyls. <i>Chemosphere</i> , 2013, 91, 165-171. | 4.2 | 31 |
| 76 | Homogeneous enzyme-linked competitive binding assay for biotin based on the avidin-biotin interaction. <i>Analytica Chimica Acta</i> , 1988, 208, 43-52. | 2.6 | 30 |
| 77 | Fiber optic sensor for calcium(2+) based on an induced change in the conformation of the protein calmodulin. <i>Analytical Chemistry</i> , 1994, 66, 300-302. | 3.2 | 30 |
| 78 | Reducing the Thrombogenicity of Ion-Selective Electrode Membranes through the Use of a Silicone-Modified Segmented Polyurethane. <i>Analytical Chemistry</i> , 2001, 73, 5328-5333. | 3.2 | 29 |
| 79 | Nitrate-selective electrode based on a cyclic bis-thiourea ionophore. <i>Sensors and Actuators B: Chemical</i> , 2007, 121, 200-207. | 4.0 | 29 |
| 80 | Morphological control of Ni/NiO core/shell nanoparticles and production of hollow NiO nanostructures. <i>Journal of Nanoparticle Research</i> , 2010, 12, 2883-2893. | 0.8 | 29 |
| 81 | Modified fenton reaction for trichlorophenol dechlorination by enzymatically generated H ₂ O ₂ and gluconic acid chelate. <i>Chemosphere</i> , 2007, 66, 2193-2200. | 4.2 | 28 |
| 82 | Halide Effects in BiVO ₄ /BiOX Heterostructures Decorated with Pd Nanoparticles for Photocatalytic Degradation of Rhodamine B as a Model Organic Pollutant. <i>ACS Applied Nano Materials</i> , 2021, 4, 3262-3272. | 2.4 | 28 |
| 83 | Iodide-selective electrodes based on a mercury-triisobutylphosphine sulfide complex. <i>Electroanalysis</i> , 1993, 5, 839-843. | 1.5 | 27 |
| 84 | Magnetoelastic transducers for monitoring coagulation, clot inhibition, and fibrinolysis. <i>Biosensors and Bioelectronics</i> , 2005, 20, 1737-1743. | 5.3 | 27 |
| 85 | Sensitive and selective liquid chromatographic postcolumn reaction detection system for biotin and biocytin using a homogeneous fluorophore-linked assay. <i>Journal of Chromatography A</i> , 1993, 654, 79-86. | 1.8 | 26 |
| 86 | Cloning, expression, and characterization of the gsdA gene encoding thermophilic glucose-6-phosphate dehydrogenase from <i>Aquifex aeolicus</i> . <i>Extremophiles</i> , 2002, 6, 283-289. | 0.9 | 26 |
| 87 | Electrochemical properties and temperature dependence of a recombinant laccase from <i>Thermus thermophilus</i> . <i>Analytical and Bioanalytical Chemistry</i> , 2011, 399, 361-366. | 1.9 | 26 |
| 88 | Hydrogen sulfite optical sensor based on a lipophilic guanidinium ionophore. <i>Analytica Chimica Acta</i> , 1999, 388, 63-69. | 2.6 | 25 |
| 89 | Bifunctional bisphosphonates for delivering PTH (1-34) to bone mineral with enhanced bioactivity. <i>Biomaterials</i> , 2013, 34, 3141-3149. | 5.7 | 25 |
| 90 | Evaluation of silicone-based wristbands as passive sampling systems using PAHs as an exposure proxy for carcinogen monitoring in firefighters: Evidence from the firefighter cancer initiative. <i>Ecotoxicology and Environmental Safety</i> , 2020, 205, 111100. | 2.9 | 25 |

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|-----|--|-----|-----------|
| 91 | Homogeneous enzyme-linked competitive binding assay for the rapid determination of folate in vitamin tablets. <i>Analytical Chemistry</i> , 1986, 58, 956-961. | 3.2 | 24 |
| 92 | Development of reactive Pd/Fe bimetallic nanotubes for dechlorination reactions. <i>Journal of Materials Chemistry</i> , 2011, 21, 10454. | 6.7 | 24 |
| 93 | Hinge-Motion Binding Proteins: Unraveling Their Analytical Potential. <i>Analytical Chemistry</i> , 2006, 78, 6692-6700. | 3.2 | 23 |
| 94 | Size-Controlled SrTiO ₃ Nanoparticles Photodecorated with Pd Cocatalysts for Photocatalytic Organic Dye Degradation. <i>ACS Applied Nano Materials</i> , 2020, 3, 4904-4912. | 2.4 | 23 |
| 95 | Potentiometric homogeneous enzyme-linked competitive binding assays using adenosine deaminase as the label. <i>Analytical Chemistry</i> , 1989, 61, 1728-1732. | 3.2 | 22 |
| 96 | Activity Studies of Immobilized Subtilisin on Functionalized Pure Cellulose-Based Membranes. <i>Biotechnology Progress</i> , 2001, 17, 866-871. | 1.3 | 22 |
| 97 | Amperometric Sensing at High Temperature with a "Wired" Thermostable Glucose-6-phosphate Dehydrogenase from <i>Aquifexaelicus</i> . <i>Analytical Chemistry</i> , 2003, 75, 3898-3901. | 3.2 | 22 |
| 98 | Protein Immobilization on Carbon Nanotubes Through a Molecular Adapter. <i>Journal of Nanoscience and Nanotechnology</i> , 2004, 4, 600-604. | 0.9 | 21 |
| 99 | Design of a mediator-free, non-enzymatic electrochemical biosensor for glutamate detection. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2021, 31, 102305. | 1.7 | 21 |
| 100 | High-performance liquid chromatographic postcolumn reaction detection based on a competitive binding system. <i>Analytical Chemistry</i> , 1990, 62, 2536-2540. | 3.2 | 20 |
| 101 | Determination of the Extent of Protein Biotinylation by Fluorescence Binding Assay. <i>Bioconjugate Chemistry</i> , 1997, 8, 94-98. | 1.8 | 20 |
| 102 | Vascular endothelial growth factor as a biomarker for the early detection of cancer using a whole cell-based biosensor. <i>Analytical and Bioanalytical Chemistry</i> , 2005, 382, 1010-1016. | 1.9 | 20 |
| 103 | Observation of "hook effects" in the inhibition and dose-response curves of biotin assays based on the interaction of biotinylated glucose oxidase with (strept)avidin. <i>Analytical Chemistry</i> , 1993, 65, 457-460. | 3.2 | 19 |
| 104 | Synthesis and Evaluation of a Bis(crown ether) Ionophore with a Conformationally Constrained Bridge in Ion-Selective Electrodes.. <i>Analytical Sciences</i> , 1998, 14, 169-173. | 0.8 | 19 |
| 105 | Enzyme-linked immunosorbent assay for an octapeptide based on a genetically engineered fusion protein. <i>Analytical Chemistry</i> , 1993, 65, 1147-1151. | 3.2 | 18 |
| 106 | Class-Selective Detection System for Liquid Chromatography Based on the Streptavidin-Biotin Interaction. <i>Analytical Chemistry</i> , 1995, 67, 1014-1018. | 3.2 | 18 |
| 107 | Integration of microcolumns and microfluidic fractionators on multitasking centrifugal microfluidic platforms for the analysis of biomolecules. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 385, 596-605. | 1.9 | 18 |
| 108 | Cooperative interaction of immobilized folate binding protein with enzyme-folate conjugates: an enzyme-linked assay for folate. <i>Analytical Chemistry</i> , 1984, 56, 1723-1726. | 3.2 | 17 |

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|-----|--|-----|-----------|
| 109 | Naphtho-crown ethers as ionophores in ion-selective electrodes. <i>Analytica Chimica Acta</i> , 1989, 222, 253-261. | 2.6 | 17 |
| 110 | Pyruvate carboxylase as a model for oligosubstituted enzyme-ligand conjugates in homogeneous enzyme immunoassays. <i>Analytical Chemistry</i> , 1989, 61, 2160-2164. | 3.2 | 17 |
| 111 | Competitive-binding approach to liquid chromatographic postcolumn reactions with fluorimetric detection. <i>Analytica Chimica Acta</i> , 1991, 246, 103-112. | 2.6 | 17 |
| 112 | Homogeneous enzyme immunoassay for lipoic acid based on the pyruvate dehydrogenase complex: A model for an assay using a conjugate with one ligand per subunit. <i>Analytical Biochemistry</i> , 1991, 195, 303-307. | 1.1 | 17 |
| 113 | Crown ether derivatives of anthraquinone as ionophores in ion-selective electrodes. <i>Electroanalysis</i> , 1992, 4, 533-537. | 1.5 | 17 |
| 114 | Fluorescence-based flow-injection determination of biotin and biotinylated compounds. <i>Analytica Chimica Acta</i> , 1993, 279, 287-292. | 2.6 | 17 |
| 115 | Iron-Functionalized Membranes for Nanoparticle Synthesis and Reactions. <i>Separation Science and Technology</i> , 2009, 44, 3289-3311. | 1.3 | 17 |
| 116 | Enhancement of the emission intensity of fluorophore-labeled avidin by biotin and biotin derivatives. Evaluation of different fluorophores for improved sensitivity. <i>Talanta</i> , 1993, 40, 1139-1145. | 2.9 | 16 |
| 117 | Fiber optic chemical sensor for nitrite based on an electropolymerized cobaltporphyrin film. <i>Talanta</i> , 1994, 41, 963-968. | 2.9 | 16 |
| 118 | Potentiometric enzyme electrode for urea based on electrochemically prepared polypyrrole membranes. <i>Mikrochimica Acta</i> , 1995, 121, 63-72. | 2.5 | 16 |
| 119 | Emerging issues: nutritional awareness in environmental toxicology. <i>Journal of Nutritional Biochemistry</i> , 2004, 15, 194-195. | 1.9 | 16 |
| 120 | Can Temperature Be Used To Tune the Selectivity of Membrane Ion-Selective Electrodes?. <i>Analytical Chemistry</i> , 2010, 82, 3622-3628. | 3.2 | 16 |
| 121 | Fibronectin Binding to the <i>Treponema pallidum</i> Adhesin Protein Fragment rTp0483 on Functionalized Self-Assembled Monolayers. <i>Bioconjugate Chemistry</i> , 2012, 23, 184-195. | 1.8 | 16 |
| 122 | Competitive Binding Assay Using Fluorescence Resonance Energy Transfer for the Identification of Calmodulin Antagonists. <i>Bioconjugate Chemistry</i> , 2005, 16, 1257-1263. | 1.8 | 15 |
| 123 | Calmodulin-mediated reversible immobilization of enzymes. <i>Colloids and Surfaces B: Biointerfaces</i> , 2007, 58, 20-27. | 2.5 | 15 |
| 124 | Ligand-Modified Aminobisphosphonate for Linking Proteins to Hydroxyapatite and Bone Surface. <i>Bioconjugate Chemistry</i> , 2008, 19, 315-321. | 1.8 | 15 |
| 125 | Environmental PCBs in Guánica Bay, Puerto Rico: implications for community health. <i>Environmental Science and Pollution Research</i> , 2016, 23, 2003-2013. | 2.7 | 14 |
| 126 | Hierarchical Core-Shell ACOF-1@BiOBr as an Efficient Photocatalyst for the Degradation of Emerging Organic Contaminants. <i>Journal of Physical Chemistry C</i> , 2022, 126, 2503-2516. | 1.5 | 14 |

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|-----|---|-----|-----------|
| 127 | Evaluation of poly(vinylidene chloride) as a matrix for polymer membrane ion-selective electrodes. <i>Analyst</i> , The, 1991, 116, 581. | 1.7 | 13 |
| 128 | Fiber-optic biosensor with fluorescence detection based on immobilized alkaline phosphatase. <i>Biosensors and Bioelectronics</i> , 1992, 7, 49-55. | 5.3 | 13 |
| 129 | Fiber optic sensor for NOX. <i>Analytica Chimica Acta</i> , 1992, 256, 269-275. | 2.6 | 13 |
| 130 | Guanidinium-Based Potentiometric SO ₂ Gas Sensor. <i>Analytical Chemistry</i> , 1999, 71, 201-204. | 3.2 | 13 |
| 131 | Covalent Immobilization of β -Galactosidase onto a Gold-Coated Magnetoelastic Transducer via a Self-Assembled Monolayer: A Toward a Magnetoelastic Biosensor. <i>Analytical Chemistry</i> , 2003, 75, 6932-6937. | 3.2 | 13 |
| 132 | Coupling Biomolecules to Fullerenes through a Molecular Adapter. <i>Bioconjugate Chemistry</i> , 2005, 16, 241-244. | 1.8 | 13 |
| 133 | Intersubunit Disulfide Interactions Play a Critical Role in Maintaining the Thermostability of Glucose-6-phosphate Dehydrogenase from the Hyperthermophilic Bacterium <i>Aquifex aeolicus</i> . <i>Protein Journal</i> , 2006, 25, 17-21. | 0.7 | 13 |
| 134 | ClcR-based biosensing system in the detection of cis-dihydroxylated (chloro-)biphenyls. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 385, 807-813. | 1.9 | 13 |
| 135 | Microfabrication of screen-printed nanoliter vials with embedded surface-modified electrodes. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 387, 259-265. | 1.9 | 13 |
| 136 | Cu ₂ O Cubes Decorated with Azine-Based Covalent Organic Framework Spheres and Pd Nanoparticles as Tandem Photocatalyst for Light-Driven Degradation of Chlorinated Biphenyls. <i>ACS Applied Nano Materials</i> , 2021, 4, 2795-2805. | 2.4 | 13 |
| 137 | Development of an assay for β -lactam hydrolysis using the pH-dependence of enhanced green fluorescent protein. <i>Analytical Biochemistry</i> , 2002, 309, 224-231. | 1.1 | 12 |
| 138 | Characterization of Electrochemically Deposited Polypyrrole Using Magnetoelastic Material Transduction Elements. <i>Analytical Chemistry</i> , 2002, 74, 4050-4053. | 3.2 | 12 |
| 139 | Converting Light Energy to Chemical Energy: A New Catalytic Approach for Sustainable Environmental Remediation. <i>ACS Omega</i> , 2016, 1, 41-51. | 1.6 | 12 |
| 140 | Preparation of Biotinylated β -Galactosidase Conjugates for Competitive Binding Assays by Posttranslational Modification of Recombinant Proteins. <i>Analytical Chemistry</i> , 1995, 67, 1301-1306. | 3.2 | 11 |
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