Leonidas G Bachas

List of Publications by Year
in descending order

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183	8,117	53794	58581
papers	citations	45 h-index	82 g-index

188	188	188	9069
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Aligned Multiwalled Carbon Nanotube Membranes. Science, 2004, 303, 62-65.	12.6	1,251
2	Genetically engineered protein in hydrogels tailors stimuli-responsive characteristics. Nature Materials, 2005, 4, 298-302.	27.5	273
3	Oriented immobilization of proteins. Mikrochimica Acta, 1998, 128, 127-143.	5.0	239
4	Nitrate-Selective Electrode Developed by Electrochemically Mediated Imprinting/Doping of Polypyrrole. Analytical Chemistry, 1995, 67, 1654-1660.	6.5	238
5	Reactive nanostructured membranes for water purification. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 8577-8582.	7.1	160
6	Anion-selective electrodes based on electropolymerized porphyrin films. Analytical Chemistry, 1991, 63, 1676-1679.	6.5	151
7	Alumina nanoparticles induce expression of endothelial cell adhesion molecules. Toxicology Letters, 2008, 178, 160-166.	0.8	147
8	Ionophore-based ion-selective potentiometric and optical sensors. Analytical and Bioanalytical Chemistry, 2003, 376, 328-341.	3.7	134
9	Carbon Nanotube Solâ˜Gel Composite Materials. Nano Letters, 2001, 1, 719-721.	9.1	130
10	Polycysteine and Other Polyamino Acid Functionalized Microfiltration Membranes for Heavy Metal Capture. Environmental Science & Technology, 2001, 35, 3252-3258.	10.0	120
11	Catalytic biofunctional membranes containing site-specifically immobilized enzyme arrays: a review. Journal of Membrane Science, 2001, 181, 29-37.	8.2	114
12	Carbon nanotube aqueous sol-gel composites: enzyme-friendly platforms for the development of stable biosensors. Analytical Biochemistry, 2004, 329, 247-252.	2.4	114
13	Development of a Fully Integrated Analysis System for Ions Based on Ion-Selective Optodes and Centrifugal Microfluidics. Analytical Chemistry, 2001, 73, 3940-3946.	6.5	112
14	Mercuracarborand â€œAnti-Crown Etherâ€•Based Chloride-Sensitive Liquid/Polymeric Membrane Electrodes. Analytical Chemistry, 1999, 71, 1371-1377.	6.5	104
15	Artificial Muscle Material with Fast Electroactuation under Neutral pH Conditions. Chemistry of Materials, 2004, 16, 2499-2502.	6.7	102
16	Tripodal Ionophore with Sulfate Recognition Properties for Anion-Selective Electrodes. Analytical Chemistry, 2000, 72, 5295-5299.	6.5	95
17	Anion-selective electrodes based on a hydrophobic vitamin B12 derivative. Analytical Chemistry, 1989, 61, 499-503.	6.5	94
18	Light-Activated Tandem Catalysis Driven by Multicomponent Nanomaterials. Journal of the American Chemical Society, 2014, 136, 32-35.	13.7	94

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19	Ion-selective electrodes using an ionophore covalently attached to carboxylated poly(vinyl chloride). Analytical Chemistry, 1990, 62, 1428-1431.	6.5	90
20	Functional Oneâ€Dimensional Nanomaterials: Applications in Nanoscale Biosensors. Analytical Letters, 2007, 40, 2067-2096.	1.8	90
21	Chelate-Modified Fenton Reaction for the Degradation of Trichloroethylene in Aqueous and Two-Phase Systems. Environmental Engineering Science, 2009, 26, 849-859.	1.6	88
22	Aluminaâ^'Pepsin Hybrid Nanoparticles with Orientation-Specific Enzyme Coupling. Nano Letters, 2003, 3, 55-58.	9.1	84
23	Nutrition Can Modulate the Toxicity of Environmental Pollutants: Implications in Risk Assessment and Human Health. Environmental Health Perspectives, 2012, 120, 771-774.	6.0	83
24	Degradation of Trichloroethylene by Iron-Based Bimetallic Nanoparticles. Journal of Physical Chemistry C, 2009, 113, 9454-9464.	3.1	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. Analytical Chemistry, 2002, 74, 5569-5575.	6.5	77
27	Improving the Activity of Immobilized Subtilisin by Site-Specific Attachment to Surfaces. Analytical Chemistry, 1997, 69, 4601-4607.	6.5	75
28	Potentiometric and fiber optic sensors for pH based on an electropolymerized cobalt porphyrin. Analytical Chemistry, 1993, 65, 2155-2158.	6.5	74
29	Pd-decorated m-BiVO₄/BiOBr ternary composite with dual heterojunction for enhanced photocatalytic activity. Journal of Materials Chemistry A, 2017, 5, 529-534.	10.3	72
30	Triazolophanes: A New Class of Halide-Selective Ionophores for Potentiometric Sensors. Analytical Chemistry, 2010, 82, 368-375.	6.5	70
31	Monitoring blood coagulation with magnetoelastic sensors. Biosensors and Bioelectronics, 2003, 18, 675-681.	10.1	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. Analytical Chemistry, 2004, 76, 7263-7268.	6.5	68
33	Salicylate-Selective Electrode Based on a Biomimetic Guanidinium Ionophore. Analytical Chemistry, 1997, 69, 1273-1278.	6.5	66
34	Nitrite-selective electrode based on an electropolymerized cobalt phthalocyanine. Electroanalysis, 1995, 7, 710-713.	2.9	65
35	Polymeric membrane anion-selective electrodes based on diquaternary ammonium salts. Analytical Chemistry, 1990, 62, 1506-1510.	6.5	63
36	Voltage-switchable artificial muscles actuating at near neutral pH. Sensors and Actuators B: Chemical, 2006, 115, 379-383.	7.8	63

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37	Hydroxylated Polychlorinated Biphenyl Detection Based on a Genetically Engineered Bioluminescent Whole-Cell Sensing System. Analytical Chemistry, 2007, 79, 5740-5745.	6.5	61
38	Glucose Responsive Hydrogel Networks Based on Protein Recognition. Macromolecular Bioscience, 2009, 9, 864-868.	4.1	61
39	Electrochemistry in Nanovials Fabricated by Combining Screen Printing and Laser Micromachining. Analytical Chemistry, 2000, 72, 497-501.	6.5	59
40	A Selective Optical Sensor Based on [9]Mercuracarborand-3, a New Type of Ionophore with a Chloride Complexing Cavity. Analytical Chemistry, 2000, 72, 4249-4254.	6.5	57
41	Use of a Guanidinium Ionophore in a Hydrogen Sulfite-Selective Electrode. Analytical Chemistry, 1994, 66, 3188-3192.	6.5	55
42	Kinetics Studies of Trichlorophenol Destruction by Chelate-Based Fenton Reaction. Environmental Engineering Science, 2005, 22, 756-771.	1.6	54
43	Development of a Whole-Cell-Based Biosensor for Detecting Histamine as a Model Toxin. Analytical Chemistry, 2004, 76, 4156-4161.	6.5	51
44	Fabrication and Biofunctionalization of Carbon-Encapsulated Au Nanoparticles. Chemistry of Materials, 2009, 21, 1176-1178.	6.7	51
45	Potentiometric behavior of electrodes based on overoxidized polypyrrole films. Analytical and Bioanalytical Chemistry, 2002, 372, 786-790.	3.7	48
46	Polymeric plasticizer extends the lifetime of PVC-membrane ion-selective electrodes. Analyst, The, 2014, 139, 757-763.	3.5	48
47	Carbon nanotube based biomimetic membranes: mimicking protein channels regulated by phosphorylation. Journal of Materials Chemistry, 2007, 17, 1755.	6.7	46
48	Selective electrodes for silver and anions based on polymeric membranes containing complexes of triisobutylphosphine sulfide with silver. Analytical Chemistry, 1991, 63, 1585-1589.	6.5	45
49	Ion-Selective Electrodes Based on a Pyridyl-Containing Triazolophane: Altering Halide Selectivity by Combining Dipole-Promoted Cooperativity with Hydrogen Bonding. Analytical Chemistry, 2011, 83, 3455-3461.	6.5	45
50	Reductive dechlorination of 3,3â€²,4,4â€²-tetrachlorobiphenyl (PCB77) using palladium or palladium/iron nanoparticles and assessment of the reduction in toxic potency in vascular endothelial cells. Journal of Hazardous Materials, 2008, 159, 483-491.	12.4	44
51	Biosensor for Asparagine Using a Thermostable Recombinant Asparaginase fromArchaeoglobusfulgidus. Analytical Chemistry, 2002, 74, 3336-3341.	6.5	43
52	Improving the Blood Compatibility of Ion-Selective Electrodes by Employing Poly(MPC-co-BMA), a Copolymer Containing Phosphorylcholine, as a Membrane Coating. Analytical Chemistry, 2002, 74, 3644-3648.	6.5	42
53	Metal oxide semiconductor nanomaterial for reductive debromination: Visible light degradation of polybrominated diphenyl ethers by Cu2O@Pd nanostructures. Applied Catalysis B: Environmental, 2017, 213, 147-154.	20.2	42
54	Theoretical models for predicting the effect of bridging group recognition and conjugate substitution on hapten enzyme immunoassay dose-response curves. Analytical Biochemistry, 1986, 156, 223-238.	2.4	40

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55	Anion-selective electrodes based on a gold(III)-triisobutylphosphine sulfide complex. Analyst, The, 1994, 119, 2421.	3.5	38
56	Nitrogen oxide gas sensor based on a nitrite-selective electrode. Analytical Chemistry, 1991, 63, 1278-1281.	6.5	36
57	Preorganized composite material of polyanilineâ€“palladium nanoparticles with high electrocatalytic activity to methanol and ethanol oxidation. International Journal of Hydrogen Energy, 2015, 40, 6745-6753.	7.1	36
58	Fiber-optic probes for cyanide using metalloporphyrins and a corrin. Analytica Chimica Acta, 1990, 241, 119-125.	5.4	34
59	Biotin-Modified Surfaces by Electrochemical Polymerizationof Biotinyl-Tyramide. Electroanalysis, 1998, 10, 58-60.	2.9	34
60	Orientation Specific Immobilization of Organophosphorus Hydrolase on Magnetic Particles through Gene Fusion. Biomacromolecules, 2001, 2, 700-705.	5.4	34
61	Peer Reviewed: Responsive Drug Delivery Systems. Analytical Chemistry, 2003, 75, 206 A-213 A.	6.5	34
62	Centrifugal Microfluidics with Integrated Sensing Microdome Optodes for Multiion Detection. Analytical Chemistry, 2007, 79, 8046-8054.	6.5	34
63	Direct Synthetic Control over the Size, Composition, and Photocatalytic Activity of Octahedral Copper Oxide Materials: Correlation Between Surface Structure and Catalytic Functionality. ACS Applied Materials & Interfaces, 2015, 7, 13238-13250.	8.0	34
64	Vitamin B12 derivatives as anion carriers in transport through supported liquid membranes and correlation with their behavior in ion-selective electrodes. Analytical Chemistry, 1993, 65, 1533-1536.	6.5	33
65	Effect of Surface-Attached Heparin on the Response of Potassium-Selective Electrodes. Analytical Chemistry, 1996, 68, 1439-1443.	6.5	33
66	Coplanar polychlorinated biphenyl-induced CYP1A1 is regulated through caveolae signaling in vascular endothelial cells. Chemico-Biological Interactions, 2008, 176, 71-78.	4.0	33
67	Enhancing the blood compatibility of ion-selective electrodes. Analytical and Bioanalytical Chemistry, 2006, 384, 65-72.	3.7	32
68	Selected Chloro-Organic Detoxifications by Polychelate (Poly(acrylic acid)) and Citrate-Based Fenton Reaction at Neutral pH Environment. Industrial & Engineering Chemistry Research, 2007, 46, 7984-7992.	3.7	32
69	Microfluidic ion-sensing devices. Analytica Chimica Acta, 2008, 613, 20-30.	5.4	32
70	Cyanostar: Câ€“H Hydrogen Bonding Neutral Carrier Scaffold for Anion-Selective Sensors. Analytical Chemistry, 2018, 90, 1925-1933.	6.5	32
71	Kinetic Studies of Site-Specifically and Randomly Immobilized Alkaline Phosphatase on Functionalized Membranes. Journal of Chemical Technology and Biotechnology, 1997, 68, 294-302.	3.2	31
72	Hybrid Nanoparticles Based on Organized Protein Immobilization on Fullerenes. Bioconjugate Chemistry, 2004, 15, 12-15.	3.6	31

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73	Enhanced Affinity Bifunctional Bisphosphonates for Targeted Delivery of Therapeutic Agents to Bone. Bioconjugate Chemistry, 2011, 22, 2496-2506.	3.6	31
74	Oriented Immobilization of Proteins on Hydroxyapatite Surface Using Bifunctional Bisphosphonates as Linkers. Biomacromolecules, 2012, 13, 1742-1749.	5.4	31
75	Reactivity of Pd/Fe bimetallic nanotubes in dechlorination of coplanar polychlorinated biphenyls. Chemosphere, 2013, 91, 165-171.	8.2	31
76	Homogeneous enzyme-linked competitive binding assay for biotin based on the avidin-biotin interaction. Analytica Chimica Acta, 1988, 208, 43-52.	5.4	30
77	Fiber optic sensor for calcium(2+) based on an induced change in the conformation of the protein calmodulin. Analytical Chemistry, 1994, 66, 300-302.	6.5	30
78	Reducing the Thrombogenicity of Ion-Selective Electrode Membranes through the Use of a Silicone-Modified Segmented Polyurethane. Analytical Chemistry, 2001, 73, 5328-5333.	6.5	29
79	Nitrate-selective electrode based on a cyclic bis-thiourea ionophore. Sensors and Actuators B: Chemical, 2007, 121, 200-207.	7.8	29
80	Morphological control of Ni/NiO core/shell nanoparticles and production of hollow NiO nanostructures. Journal of Nanoparticle Research, 2010, 12, 2883-2893.	1.9	29
81	Modified fenton reaction for trichlorophenol dechlorination by enzymatically generated H2O2 and gluconic acid chelate. Chemosphere, 2007, 66, 2193-2200.	8.2	28
82	Halide Effects in BiVO₄/BiOX Heterostructures Decorated with Pd Nanoparticles for Photocatalytic Degradation of Rhodamine B as a Model Organic Pollutant. ACS Applied Nano Materials, 2021, 4, 3262-3272.	5.0	28
83	Iodide-selective electrodes based on a mercury-triisobutylphosphine sulfide complex. Electroanalysis, 1993, 5, 839-843.	2.9	27
84	Magnetoelastic transducers for monitoring coagulation, clot inhibition, and fibrinolysis. Biosensors and Bioelectronics, 2005, 20, 1737-1743.	10.1	27
85	Sensitive and selective liquid chromatographic postcolumn reaction detection system for biotin and biocytin using a homogeneous fluorophore-linked assay. Journal of Chromatography A, 1993, 654, 79-86.	3.7	26
86	Cloning, expression, and characterization of the gsdA gene encoding thermophilic glucose-6-phosphate dehydrogenase from Aquifex aeolicus. Extremophiles, 2002, 6, 283-289.	2.3	26
87	Electrochemical properties and temperature dependence of a recombinant laccase from Thermus thermophilus. Analytical and Bioanalytical Chemistry, 2011, 399, 361-366.	3.7	26
88	Hydrogen sulfite optical sensor based on a lipophilic guanidinium ionophore. Analytica Chimica Acta, 1999, 388, 63-69.	5.4	25
89	Bifunctional bisphosphonates for delivering PTH (1-34) to bone mineral with enhanced bioactivity. Biomaterials, 2013, 34, 3141-3149.	11.4	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. Ecotoxicology and Environmental Safety, 2020, 205, 111100.	6.0	25

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91	Homogeneous enzyme-linked competitive binding assay for the rapid determination of folate in vitamin tablets. Analytical Chemistry, 1986, 58, 956-961.	6.5	24
92	Development of reactive Pd/Fe bimetallic nanotubes for dechlorination reactions. Journal of Materials Chemistry, 2011, 21, 10454.	6.7	24
93	Hinge-Motion Binding Proteins: Unraveling Their Analytical Potential. Analytical Chemistry, 2006, 78, 6692-6700.	6.5	23
94	Size-Controlled SrTiO₃ Nanoparticles Photodecorated with Pd Cocatalysts for Photocatalytic Organic Dye Degradation. ACS Applied Nano Materials, 2020, 3, 4904-4912.	5.0	23
95	Potentiometric homogeneous enzyme-linked competitive binding assays using adenosine deaminase as the label. Analytical Chemistry, 1989, 61, 1728-1732.	6.5	22
96	Activity Studies of Immobilized Subtilisin on Functionalized Pure Cellulose-Based Membranes. Biotechnology Progress, 2001, 17, 866-871.	2.6	22
97	Amperometric Sensing at High Temperature with a â€œWiredâ€•Thermostable Glucose-6-phosphate Dehydrogenase fromAquifexaeolicus. Analytical Chemistry, 2003, 75, 3898-3901.	6.5	22
98	Protein Immobilization on Carbon Nanotubes Through a Molecular Adapter. Journal of Nanoscience and Nanotechnology, 2004, 4, 600-604.	0.9	21
99	Design of a mediator-free, non-enzymatic electrochemical biosensor for glutamate detection. Nanomedicine: Nanotechnology, Biology, and Medicine, 2021, 31, 102305.	3.3	21
100	High-performance liquid chromatographic postcolumn reaction detection based on a competitive binding system. Analytical Chemistry, 1990, 62, 2536-2540.	6.5	20
101	Determination of the Extent of Protein Biotinylation by Fluorescence Binding Assay. Bioconjugate Chemistry, 1997, 8, 94-98.	3.6	20
102	Vascular endothelial growth factor as a biomarker for the early detection of cancer using a whole cell-based biosensor. Analytical and Bioanalytical Chemistry, 2005, 382, 1010-1016.	3.7	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. Analytical Chemistry, 1993, 65, 457-460.	6.5	19
104	Synthesis and Evaluation of a Bis(crown ether) Ionophore with a Conformationally Constrained Bridge in Ion-Selective Electrodes.. Analytical Sciences, 1998, 14, 169-173.	1.6	19
105	Enzyme-linked immunosorbent assay for an octapeptide based on a genetically engineered fusion protein. Analytical Chemistry, 1993, 65, 1147-1151.	6.5	18
106	Class-Selective Detection System for Liquid Chromatography Based on the Streptavidin-Biotin Interaction. Analytical Chemistry, 1995, 67, 1014-1018.	6.5	18
107	Integration of microcolumns and microfluidic fractionators on multitasking centrifugal microfluidic platforms for the analysis of biomolecules. Analytical and Bioanalytical Chemistry, 2006, 385, 596-605.	3.7	18
108	Cooperative interaction of immobilized folate binding protein with enzyme-folate conjugates: an enzyme-linked assay for folate. Analytical Chemistry, 1984, 56, 1723-1726.	6.5	17

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109	Naphtho-crown ethers as ionophores in ion-selective electrodes. Analytica Chimica Acta, 1989, 222, 253-261.	5.4	17
110	Pyruvate carboxylase as a model for oligosubstituted enzyme-ligand conjugates in homogeneous enzyme immunoassays. Analytical Chemistry, 1989, 61, 2160-2164.	6.5	17
111	Competitive-binding approach to liquid chromatographic postcolumn reactions with fluorimetric detection. Analytica Chimica Acta, 1991, 246, 103-112.	5.4	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. Analytical Biochemistry, 1991, 195, 303-307.	2.4	17
113	Crown ether derivatives of anthraquinone as ionophores in ion-selective electrodes. Electroanalysis, 1992, 4, 533-537.	2.9	17
114	Fluorescence-based flow-injection determination of biotin and biotinylated compounds. Analytica Chimica Acta, 1993, 279, 287-292.	5.4	17
115	Iron-Functionalized Membranes for Nanoparticle Synthesis and Reactions. Separation Science and Technology, 2009, 44, 3289-3311.	2.5	17
116	Enhancement of the emission intensity of fluorophore-labeled avidin by biotin and biotin derivatives. Evaluation of different fluorophores for improved sensitivity. Talanta, 1993, 40, 1139-1145.	5.5	16
117	Fiber optic chemical sensor for nitrite based on an electropolymerized cobaltporphyrin film. Talanta, 1994, 41, 963-968.	5.5	16
118	Potentiometric enzyme electrode for urea based on electrochemically prepared polypyrrole membranes. Mikrochimica Acta, 1995, 121, 63-72.	5.0	16
119	Emerging issues: nutritional awareness in environmental toxicology. Journal of Nutritional Biochemistry, 2004, 15, 194-195.	4.2	16
120	Can Temperature Be Used To Tune the Selectivity of Membrane Ion-Selective Electrodes?. Analytical Chemistry, 2010, 82, 3622-3628.	6.5	16
121	Fibronectin Binding to the Treponema pallidum Adhesin Protein Fragment rTp0483 on Functionalized Self-Assembled Monolayers. Bioconjugate Chemistry, 2012, 23, 184-195.	3.6	16
122	Competitive Binding Assay Using Fluorescence Resonance Energy Transfer for the Identification of Calmodulin Antagonists. Bioconjugate Chemistry, 2005, 16, 1257-1263.	3.6	15
123	Calmodulin-mediated reversible immobilization of enzymes. Colloids and Surfaces B: Biointerfaces, 2007, 58, 20-27.	5.0	15
124	Ligand-Modified Aminobisphosphonate for Linking Proteins to Hydroxyapatite and Bone Surface. Bioconjugate Chemistry, 2008, 19, 315-321.	3.6	15
125	Environmental PCBs in GuÃ¡nica Bay, Puerto Rico: implications for community health. Environmental Science and Pollution Research, 2016, 23, 2003-2013.	5.3	14
126	Hierarchical Coreâ€“Shell ACOF-1@BiOBr as an Efficient Photocatalyst for the Degradation of Emerging Organic Contaminants. Journal of Physical Chemistry C, 2022, 126, 2503-2516.	3.1	14

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127	Evaluation of poly(vinylidene chloride) as a matrix for polymer membrane ion-selective electrodes. Analyst, The, 1991, 116, 581.	3.5	13
128	Fiber-optic biosensor with fluorescence detection based on immobilized alkaline phosphatase. Biosensors and Bioelectronics, 1992, 7, 49-55.	10.1	13
129	Fiber optic sensor for NOX. Analytica Chimica Acta, 1992, 256, 269-275.	5.4	13
130	Guanidinium-Based Potentiometric SO2Gas Sensor. Analytical Chemistry, 1999, 71, 201-204.	6.5	13
131	Covalent Immobilization of Î²-Galactosidase onto a Gold-Coated Magnetoelastic Transducer via a Self-Assembled Monolayer:Â Toward a Magnetoelastic Biosensor. Analytical Chemistry, 2003, 75, 6932-6937.	6.5	13
132	Coupling Biomolecules to Fullerenes through a Molecular Adapter. Bioconjugate Chemistry, 2005, 16, 241-244.	3.6	13
133	Intersubunit Disulfide Interactions Play a Critical Role in Maintaining the Thermostability of Glucose-6-phosphate Dehydrogenase from the Hyperthermophilic Bacterium Aquifex aeolicus. Protein Journal, 2006, 25, 17-21.	1.6	13
134	ClcR-based biosensing system in the detection of cis-dihydroxylated (chloro-)biphenyls. Analytical and Bioanalytical Chemistry, 2006, 385, 807-813.	3.7	13
135	Microfabrication of screen-printed nanoliter vials with embedded surface-modified electrodes. Analytical and Bioanalytical Chemistry, 2006, 387, 259-265.	3.7	13
136	Cu₂O Cubes Decorated with Azine-Based Covalent Organic Framework Spheres and Pd Nanoparticles as Tandem Photocatalyst for Light-Driven Degradation of Chlorinated Biphenyls. ACS Applied Nano Materials, 2021, 4, 2795-2805.	5.0	13
137	Development of an assay for Î²-lactam hydrolysis using the pH-dependence of enhanced green fluorescent protein. Analytical Biochemistry, 2002, 309, 224-231.	2.4	12
138	Characterization of Electrochemically Deposited Polypyrrole Using Magnetoelastic Material Transduction Elements. Analytical Chemistry, 2002, 74, 4050-4053.	6.5	12
139	Converting Light Energy to Chemical Energy: A New Catalytic Approach for Sustainable Environmental Remediation. ACS Omega, 2016, 1, 41-51.	3.5	12
140	Preparation of Biotinylated .beta.-Galactosidase Conjugates for Competitive Binding Assays by Posttranslational Modification of Recombinant Proteins. Analytical Chemistry, 1995, 67, 1301-1306.	6.5	11
141	Electron paramagnetic resonance spin label titration: a novel method to investigate random and site-specific immobilization of enzymes onto polymeric membranes with different properties. Analytica Chimica Acta, 2002, 470, 29-36.	5.4	11
142	Response behavior of sodium-selective electrodes modified by surface attachment of the anticoagulant polysaccharides heparin and chondroitin sulfate. Talanta, 2005, 65, 261-266.	5.5	11
143	Biosensor incorporating cell barrier architectures for detecting Staphylococcus aureus alpha toxin. Analytical and Bioanalytical Chemistry, 2007, 387, 567-574.	3.7	11
144	Effect of proteins on the response of anion-selective electrodes based on vitamin B12 derivatives. Electroanalysis, 1991, 3, 177-182.	2.9	10

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145	Chromo- and Fluoroionophores Based on Diaza-Crown Ethers for Alkaline Earth Metal Ions. Analytical Letters, 1992, 25, 1823-1834.	1.8	10
146	Development of NOx gas sensors based on nitrate-selective polypyrrole electrodes. Electroanalysis, 1997, 9, 1049-1053.	2.9	10
147	<title>Wireless passive resonant-circuit sensors for monitoring food quality</title>. , 2002, , .		10
148	Biosensor incorporating cell barrier architectures on ion selective electrodes for early screening of cancer. Analytical and Bioanalytical Chemistry, 2008, 391, 2783-2791.	3.7	10
149	Amino Acids for the Sustainable Production of Cu₂O Materials: Effects on Morphology and Photocatalytic Reactivity. ACS Sustainable Chemistry and Engineering, 2019, 7, 17055-17064.	6.7	10
150	Bioluminescence Inhibition Assay for the Detection of Hydroxylated Polychlorinated Biphenyls. Analytical Chemistry, 2012, 84, 7648-7655.	6.5	9
151	Effect of different binding proteins on the detection limits and sensitivity of assays based on biotinylated adenosine deaminase. Bioconjugate Chemistry, 1992, 3, 225-229.	3.6	8
152	[29] Fluorophore-linked assays for high-performance liquid chromatography postcolumn reaction detection of biotin and biocytin. Methods in Enzymology, 1997, 279, 275-286.	1.0	8
153	Use of a Biomimetic Peptide in the Design of a Competitive Binding Assay for Biotin and Biotin Analogues. Analytical Biochemistry, 2001, 289, 82-88.	2.4	8
154	Enzymatic recycling of NADPH at high temperature utilizing a thermostable glucose-6-phosphate dehydrogenase from Bacillus stearothermophilus. Journal of Molecular Catalysis B: Enzymatic, 2004, 28, 1-5.	1.8	8
155	Cu2S@Bi2S3 Double-Shelled Hollow Cages as a Nanocatalyst with Substantial Activity in Peroxymonosulfate Activation for Atrazine Degradation. ACS Applied Nano Materials, 2021, 4, 12222-12234.	5.0	8
156	Delivery of therapeutic agents and cells to pancreatic islets: Towards a new era in the treatment of diabetes. Molecular Aspects of Medicine, 2022, 83, 101063.	6.4	8
157	Effect of Fabrication Factors on Performance of Screen-Printed/Laser Micromachined Electrochemical Nanovials. Electroanalysis, 2000, 12, 685-690.	2.9	7
158	Anion-Selective Electrodes Based On a CH-Hydrogen Bonding Bis-macrocyclic Ionophore with a Clamshell Architecture. Analytical Chemistry, 2021, 93, 5412-5419.	6.5	7
159	Electrochemical Assay for Highly Charged Polyamino Acids: Application to Polyamino Acid Functionalized Microfiltration Membranes. Electroanalysis, 2000, 12, 1368-1372.	2.9	6
160	Decyl Methacrylate-Based Microspot Optodes. Analytical Chemistry, 2006, 78, 524-529.	6.5	6
161	Palladium nanoparticle-decorated iron nanotubes hosted in a polycarbonate porous membrane: development, characterization, and performance as electrocatalysts of ascorbic acid. Analytical and Bioanalytical Chemistry, 2012, 404, 1637-1642.	3.7	6
162	Biomimetic Approach to the Design of Selective Oxoanion Receptors for Use in Membrane-Based Potentiometric Sensors. , 1996, , 35-44.		6

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163	A solid-phase enzyme-linked assay for vitamin B12. Mikrochimica Acta, 1989, 97, 65-73.	5.0	5
164	Poly(amino acid)-Facilitated Electrochemical Growth of Metal Nanoparticles. Journal of Nanoscience and Nanotechnology, 2006, 6, 2408-2412.	0.9	5
165	Development of Polymer Membrane Anion-Selective Electrodes Based on Molecular Recognition Principles. ACS Symposium Series, 1992, , 175-185.	0.5	4
166	Synthesis of Nanostructured Bimetallic Particles in Polyligand-Functionalized Membranes for Remediation Applications. , 2009, , 311-335.		4
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