

Antonio L De Lacey

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

106
papers

6,417
citations

41
h-index

78
g-index

109
ext. papers

6,874
ext. citations

7.9
avg, IF

5.41
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 106 | Biological Production of Hydrogen 2021 , 247-273 | | 2 |
| 105 | Bioelectrocatalytic Activity of W-Formate Dehydrogenase Covalently Immobilized on Functionalized Gold and Graphite Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 11891-11900 | 9.5 | 6 |
| 104 | Comparing Ligninolytic Capabilities of Bacterial and Fungal Dye-Decolorizing Peroxidases and Class-II Peroxidase-Catalases. <i>International Journal of Molecular Sciences</i> , 2021 , 22, | 6.3 | 8 |
| 103 | Photoelectrocatalytic detection of NADH on n-type silicon semiconductors facilitated by carbon nanotube fibers. <i>Electrochimica Acta</i> , 2021 , 377, 138071 | 6.7 | 3 |
| 102 | Electrochemical Biosensors Based on Membrane-Bound Enzymes in Biomimetic Configurations. <i>Sensors</i> , 2020 , 20, | 3.8 | 12 |
| 101 | Potentiometric detection of ATP based on the transmembrane proton gradient generated by ATPase reconstituted on a gold electrode. <i>Bioelectrochemistry</i> , 2020 , 133, 107490 | 5.6 | 4 |
| 100 | Novel Bioelectrocatalytic Strategies Based on Immobilized Redox Metalloenzymes on Tailored Electrodes. <i>ACS Symposium Series</i> , 2020 , 207-229 | 0.4 | 1 |
| 99 | Electroenzymatic CO ₂ Fixation Using Redox Polymer/Enzyme-Modified Gas Diffusion Electrodes. <i>ACS Energy Letters</i> , 2020 , 5, 321-327 | 20.1 | 23 |
| 98 | Underpotential Photoelectrooxidation of Water by SnS ₂ ⊃accase Co-catalysts on Nanostructured Electrodes with Only Visible-Light Irradiation. <i>ChemElectroChem</i> , 2019 , 6, 2755-2761 | 4.3 | 9 |
| 97 | Increase of Redox Potential during the Evolution of Enzymes Degrading Recalcitrant Lignin. <i>Chemistry - A European Journal</i> , 2019 , 25, 2708-2712 | 4.8 | 14 |
| 96 | Three-Dimensional Graphene Matrix-Supported and Thylakoid Membrane-Based High-Performance Bioelectrochemical Solar Cell. <i>ACS Applied Energy Materials</i> , 2018 , 1, 319-323 | 6.1 | 24 |
| 95 | Enzymatic Electrosynthesis of Alkanes by Bioelectrocatalytic Decarbonylation of Fatty Aldehydes. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 2404-2408 | 16.4 | 21 |
| 94 | Catalytic Activity and Proton Translocation of Reconstituted Respiratory Complex I Monitored by Surface-Enhanced Infrared Absorption Spectroscopy. <i>Langmuir</i> , 2018 , 34, 5703-5711 | 4 | 6 |
| 93 | Characterization of the [NiFeSe] hydrogenase from <i>Desulfovibrio vulgaris</i> Hildenborough. <i>Methods in Enzymology</i> , 2018 , 613, 169-201 | 1.7 | 7 |
| 92 | A new mechanistic model for an O-protected electron-bifurcating hydrogenase, Hnd from <i>Desulfovibrio fructosovorans</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2018 , 1859, 1302-1312 | 4.6 | 20 |
| 91 | Bioelectrochemical Haber-Bosch Process: An Ammonia-Producing H ₂ /N ₂ Fuel Cell. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 2680-2683 | 16.4 | 155 |
| 90 | Transparent, mediator- and membrane-free enzymatic fuel cell based on nanostructured chemically modified indium tin oxide electrodes. <i>Biosensors and Bioelectronics</i> , 2017 , 97, 46-52 | 11.8 | 29 |

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| 89 | Laccase-Catalyzed Bioelectrochemical Oxidation of Water Assisted with Visible Light. <i>ACS Catalysis</i> , 2017 , 7, 4881-4889 | 13.1 | 15 |
| 88 | The direct role of selenocysteine in [NiFeSe] hydrogenase maturation and catalysis. <i>Nature Chemical Biology</i> , 2017 , 13, 544-550 | 11.7 | 51 |
| 87 | Halides inhibition of multicopper oxidases studied by FTIR spectroelectrochemistry using azide as an active infrared probe. <i>Journal of Biological Inorganic Chemistry</i> , 2017 , 22, 1179-1186 | 3.7 | 11 |
| 86 | Wiring of Photosystem I and Hydrogenase on an Electrode for Photoelectrochemical H ₂ Production by using Redox Polymers for Relatively Positive Onset Potential. <i>ChemElectroChem</i> , 2017 , 4, 90-95 | 4.3 | 44 |
| 85 | In Situ Determination of Photobioproduction of H ₂ by In ₂ S ₃ -[NiFeSe] Hydrogenase from <i>Desulfovibrio vulgaris</i> Hildenborough Using Only Visible Light. <i>ACS Catalysis</i> , 2016 , 6, 5691-5698 | 13.1 | 31 |
| 84 | Fabrication of high surface area graphene electrodes with high performance towards enzymatic oxygen reduction. <i>Electrochimica Acta</i> , 2016 , 191, 500-509 | 6.7 | 29 |
| 83 | Laccase-modified gold nanorods for electrocatalytic reduction of oxygen. <i>Bioelectrochemistry</i> , 2016 , 107, 30-6 | 5.6 | 19 |
| 82 | H ₂ -Fueled ATP Synthesis on an Electrode: Mimicking Cellular Respiration. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 6216-20 | 16.4 | 28 |
| 81 | Synthesis and Characterization of V-Doped In ₂ S ₃ Thin Films on FTO Substrates. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 28753-28761 | 3.8 | 23 |
| 80 | Induction of a proton gradient across a gold-supported biomimetic membrane by electroenzymatic H ₂ oxidation. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 2684-7 | 16.4 | 17 |
| 79 | [NiFe]-hydrogenases revisited: nickel-carboxamido bond formation in a variant with accrued O ₂ -tolerance and a tentative re-interpretation of Ni-SI states. <i>Metallomics</i> , 2015 , 7, 710-8 | 4.5 | 19 |
| 78 | A threonine stabilizes the NiC and NiR catalytic intermediates of [NiFe]-hydrogenase. <i>Journal of Biological Chemistry</i> , 2015 , 290, 8550-8 | 5.4 | 16 |
| 77 | Structural differences of oxidized iron-sulfur and nickel-iron cofactors in O ₂ -tolerant and O ₂ -sensitive hydrogenases studied by X-ray absorption spectroscopy. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2015 , 1847, 162-170 | 4.6 | 13 |
| 76 | Third-generation oxygen amperometric biosensor based on <i>Trametes hirsuta</i> laccase covalently bound to graphite electrode. <i>Chemical Papers</i> , 2015 , 69, | 1.9 | 9 |
| 75 | Crystallographic studies of [NiFe]-hydrogenase mutants: towards consensus structures for the elusive unready oxidized states. <i>Journal of Biological Inorganic Chemistry</i> , 2015 , 20, 11-22 | 3.7 | 48 |
| 74 | Reconstitution of respiratory complex I on a biomimetic membrane supported on gold electrodes. <i>Langmuir</i> , 2014 , 30, 9007-15 | 4 | 20 |
| 73 | Bioelectrochemical oxidation of water. <i>Journal of the American Chemical Society</i> , 2014 , 136, 5892-5 | 16.4 | 38 |
| 72 | Self-powered wireless carbohydrate/oxygen sensitive biodevice based on radio signal transmission. <i>PLoS ONE</i> , 2014 , 9, e109104 | 3.7 | 52 |

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| 71 | Sulfur-doped carbons prepared from eutectic mixtures containing hydroxymethylthiophene as metal-free oxygen reduction catalysts. <i>ChemSusChem</i> , 2014 , 7, 3347-55 | 8.3 | 15 |
| 70 | FTIR spectroscopy of metalloproteins. <i>Methods in Molecular Biology</i> , 2014 , 1122, 95-106 | 1.4 | 5 |
| 69 | Orientation and Function of a Membrane-Bound Enzyme Monitored by Electrochemical Surface-Enhanced Infrared Absorption Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 2794-2798 | 6.4 | 24 |
| 68 | Influence of the protein structure surrounding the active site on the catalytic activity of [NiFeSe] hydrogenases. <i>Journal of Biological Inorganic Chemistry</i> , 2013 , 18, 419-27 | 3.7 | 21 |
| 67 | Electrochemical determination of berberine at a multi-walled carbon nanotubes-modified glassy carbon electrode. <i>Sensors and Actuators B: Chemical</i> , 2013 , 183, 96-101 | 8.5 | 30 |
| 66 | Physicochemical characterization of <i>Acidiphilium</i> sp. biofilms. <i>ChemPhysChem</i> , 2013 , 14, 1237-44 | 3.2 | 4 |
| 65 | Oxygen biosensor based on bilirubin oxidase immobilized on a nanostructured gold electrode. <i>Bioelectrochemistry</i> , 2013 , 94, 69-74 | 5.6 | 42 |
| 64 | Structural foundations for the O ₂ resistance of <i>Desulfomicrobium baculatum</i> [NiFeSe]-hydrogenase. <i>Chemical Communications</i> , 2013 , 49, 7061-3 | 5.8 | 33 |
| 63 | O ₂ -independent formation of the inactive states of NiFe hydrogenase. <i>Nature Chemical Biology</i> , 2013 , 9, 15-7 | 11.7 | 65 |
| 62 | Bilirubin Oxidase-Based Nanobiocathode Working in Serum-Mimic Buffer for Implantable Biofuel Cell. <i>Electroanalysis</i> , 2013 , 25, 1359-1362 | 3 | 14 |
| 61 | Blood tolerant laccase by directed evolution. <i>Chemistry and Biology</i> , 2013 , 20, 223-31 | | 67 |
| 60 | Laccase cathode approaches to physiological conditions by local pH acidification. <i>Electrochemistry Communications</i> , 2012 , 18, 37-40 | 5.1 | 8 |
| 59 | Gold nanoparticles as electronic bridges for laccase-based biocathodes. <i>Journal of the American Chemical Society</i> , 2012 , 134, 17212-20 | 16.4 | 154 |
| 58 | Enhanced direct electron transfer between laccase and hierarchical carbon microfibers/carbon nanotubes composite electrodes. Comparison of three enzyme immobilization methods. <i>Electrochimica Acta</i> , 2012 , 82, 218-223 | 6.7 | 73 |
| 57 | Understanding and tuning the catalytic bias of hydrogenase. <i>Journal of the American Chemical Society</i> , 2012 , 134, 8368-71 | 16.4 | 89 |
| 56 | Combined ATR-SEIRAS and EC-STM Study of the Immobilization of Laccase on Chemically Modified Au Electrodes. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 16532-16540 | 3.8 | 23 |
| 55 | Relation between anaerobic inactivation and oxygen tolerance in a large series of NiFe hydrogenase mutants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 19916-21 | 11.5 | 50 |
| 54 | High Redox Potential Cathode Based on Laccase Covalently Attached to Gold Electrode. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 13420-13428 | 3.8 | 82 |

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| 53 | Original design of an oxygen-tolerant [NiFe] hydrogenase: major effect of a valine-to-cysteine mutation near the active site. <i>Journal of the American Chemical Society</i> , 2011 , 133, 986-97 | 16.4 | 84 |
| 52 | Nickel/Iron/Selenium Hydrogenases – An Overview. <i>European Journal of Inorganic Chemistry</i> , 2011 , 2011, 948-962 | 2.3 | 78 |
| 51 | Oriented immobilization of a membrane-bound hydrogenase onto an electrode for direct electron transfer. <i>Langmuir</i> , 2011 , 27, 6449-57 | 4 | 66 |
| 50 | [NiFe] and [FeS] cofactors in the membrane-bound hydrogenase of <i>Ralstonia eutropha</i> investigated by X-ray absorption spectroscopy: insights into O ₂ -tolerant H ₂ cleavage. <i>Biochemistry</i> , 2011 , 50, 5858-59 | 3.3 | 33 |
| 49 | Electricity generation by microorganisms in the sediment-water interface of an extreme acidic microcosm. <i>International Microbiology</i> , 2011 , 14, 73-81 | 3 | 17 |
| 48 | The three-dimensional structure of [NiFeSe] hydrogenase from <i>Desulfovibrio vulgaris</i> Hildenborough: a hydrogenase without a bridging ligand in the active site in its oxidised, "as-isolated" state. <i>Journal of Molecular Biology</i> , 2010 , 396, 893-907 | 6.5 | 103 |
| 47 | Hydrogenases and Alternative Energy Strategies 2010 , 213 | | |
| 46 | Interaction of the active site of the Ni-Fe-Se hydrogenase from <i>Desulfovibrio vulgaris</i> Hildenborough with carbon monoxide and oxygen inhibitors. <i>Journal of Biological Inorganic Chemistry</i> , 2010 , 15, 1285-92 | 3.7 | 21 |
| 45 | Enzymatic Anodes for Hydrogen Fuel Cells based on Covalent Attachment of Ni-Fe Hydrogenases and Direct Electron Transfer to SAM-Modified Gold Electrodes. <i>Electroanalysis</i> , 2010 , 22, 776-783 | 3 | 50 |
| 44 | Bioelectrochemical studies of azurin and laccase confined in three-dimensional chips based on gold-modified nano-/microstructured silicon. <i>Biosensors and Bioelectronics</i> , 2010 , 25, 1001-7 | 11.8 | 46 |
| 43 | Electrochemical growth of <i>Acidithiobacillus ferrooxidans</i> on a graphite electrode for obtaining a biocathode for direct electrocatalytic reduction of oxygen. <i>Biosensors and Bioelectronics</i> , 2010 , 26, 877-80 | 11.8 | 94 |
| 42 | Direct electron transfer reactions between human ceruloplasmin and electrodes. <i>Bioelectrochemistry</i> , 2009 , 76, 34-41 | 5.6 | 19 |
| 41 | Introduction of methionines in the gas channel makes [NiFe] hydrogenase aero-tolerant. <i>Journal of the American Chemical Society</i> , 2009 , 131, 10156-64 | 16.4 | 98 |
| 40 | A membrane-, mediator-, cofactor-less glucose/oxygen biofuel cell. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 6093-6 | 3.6 | 109 |
| 39 | Preferential use of an anode as an electron acceptor by an acidophilic bacterium in the presence of oxygen. <i>Applied and Environmental Microbiology</i> , 2008 , 74, 4472-6 | 4.8 | 65 |
| 38 | Combinatorial saturation mutagenesis of the <i>Myceliophthora thermophila</i> laccase T2 mutant: the connection between the C-terminal plug and the conserved (509)VSG(511) tripeptide. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2008 , 11, 807-16 | 1.3 | 29 |
| 37 | A purple acidophilic di-ferric DNA ligase from <i>Ferroplasma</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 8878-83 | 11.5 | 22 |
| 36 | FTIR spectroelectrochemical characterization of the Ni-Fe-Se hydrogenase from <i>Desulfovibrio vulgaris</i> Hildenborough. <i>Journal of Biological Inorganic Chemistry</i> , 2008 , 13, 1315-20 | 3.7 | 29 |

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| 35 | Laccase electrode for direct electrocatalytic reduction of O ₂ to H ₂ O with high-operational stability and resistance to chloride inhibition. <i>Biosensors and Bioelectronics</i> , 2008 , 24, 531-7 | 11.8 | 139 |
| 34 | Molecular modulation of NiFe hydrogenase activity. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 1503-1508 | 6.7 | 4 |
| 33 | Activation and inactivation of hydrogenase function and the catalytic cycle: spectroelectrochemical studies. <i>Chemical Reviews</i> , 2007 , 107, 4304-30 | 68.1 | 409 |
| 32 | Impact of alterations near the [NiFe] active site on the function of the H ₂ sensor from <i>Ralstonia eutropha</i> . <i>FEBS Journal</i> , 2007 , 274, 74-85 | 5.7 | 20 |
| 31 | Hydrogenase-coated carbon nanotubes for efficient H ₂ oxidation. <i>Nano Letters</i> , 2007 , 7, 1603-8 | 11.5 | 158 |
| 30 | Characterization of the active site of catalytically inactive forms of [NiFe] hydrogenases by density functional theory. <i>Journal of Biological Inorganic Chemistry</i> , 2007 , 12, 751-60 | 3.7 | 22 |
| 29 | Changing the ligation of the distal [4Fe4S] cluster in NiFe hydrogenase impairs inter- and intramolecular electron transfers. <i>Journal of the American Chemical Society</i> , 2006 , 128, 5209-18 | 16.4 | 91 |
| 28 | The active site of the [FeFe]-hydrogenase from <i>Desulfovibrio desulfuricans</i> . II. Redox properties, light sensitivity and CO-ligand exchange as observed by infrared spectroscopy. <i>Journal of Biological Inorganic Chemistry</i> , 2006 , 11, 102-18 | 3.7 | 195 |
| 27 | An improved purification procedure for the soluble [NiFe]-hydrogenase of <i>Ralstonia eutropha</i> : new insights into its (in)stability and spectroscopic properties. <i>Journal of Biological Inorganic Chemistry</i> , 2006 , 11, 247-60 | 3.7 | 37 |
| 26 | Density functional study of the catalytic cycle of nickel-iron [NiFe] hydrogenases and the involvement of high-spin nickel(II). <i>Journal of Biological Inorganic Chemistry</i> , 2006 , 11, 286-306 | 3.7 | 81 |
| 25 | Native and mutant nickel-iron hydrogenases: Unravelling structure and function. <i>Coordination Chemistry Reviews</i> , 2005 , 249, 1596-1608 | 23.2 | 64 |
| 24 | Oriented immobilization of <i>Desulfovibrio gigas</i> hydrogenase onto carbon electrodes by covalent bonds for nonmediated oxidation of H ₂ . <i>Journal of the American Chemical Society</i> , 2005 , 127, 16008-9 | 16.4 | 140 |
| 23 | A glutamate is the essential proton transfer gate during the catalytic cycle of the [NiFe] hydrogenase. <i>Journal of Biological Chemistry</i> , 2004 , 279, 10508-13 | 5.4 | 112 |
| 22 | FTIR spectroelectrochemical study of the activation and inactivation processes of [NiFe] hydrogenases: effects of solvent isotope replacement and site-directed mutagenesis. <i>Journal of Biological Inorganic Chemistry</i> , 2004 , 9, 636-42 | 3.7 | 40 |
| 21 | The activation of the [NiFe]-hydrogenase from <i>Allochromatium vinosum</i> . An infrared spectro-electrochemical study. <i>Journal of Biological Inorganic Chemistry</i> , 2004 , 9, 743-52 | 3.7 | 101 |
| 20 | Spectroscopic and kinetic characterization of active site mutants of <i>Desulfovibrio fructosovorans</i> Ni-Fe hydrogenase. <i>Journal of Biological Inorganic Chemistry</i> , 2003 , 8, 129-34 | 3.7 | 45 |
| 19 | IR spectroelectrochemical study of the binding of carbon monoxide to the active site of <i>Desulfovibrio fructosovorans</i> Ni-Fe hydrogenase. <i>Journal of Biological Inorganic Chemistry</i> , 2002 , 7, 318-26 | 3.7 | 74 |
| 18 | Functional analysis by site-directed mutagenesis of the NAD(+)-reducing hydrogenase from <i>Ralstonia eutropha</i> . <i>Journal of Bacteriology</i> , 2002 , 184, 6280-8 | 3.5 | 41 |

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| 17 | Density functional calculations for modeling the oxidized states of the active site of nickel-iron hydrogenases. 1. Verification of the method with paramagnetic Ni and Co complexes. <i>Inorganic Chemistry</i> , 2002 , 41, 4417-23 | 5.1 | 25 |
| 16 | Density functional calculations for modeling the active site of nickel-iron hydrogenases. 2. Predictions for the unready and ready States and the corresponding activation processes. <i>Inorganic Chemistry</i> , 2002 , 41, 4424-34 | 5.1 | 61 |
| 15 | The H ₂ sensor of <i>Ralstonia eutropha</i> . Biochemical characteristics, spectroscopic properties, and its interaction with a histidine protein kinase. <i>Journal of Biological Chemistry</i> , 2001 , 276, 15592-7 | 5.4 | 92 |
| 14 | Crystallographic and FTIR spectroscopic evidence of changes in Fe coordination upon reduction of the active site of the Fe-only hydrogenase from <i>Desulfovibrio desulfuricans</i> . <i>Journal of the American Chemical Society</i> , 2001 , 123, 1596-601 | 16.4 | 712 |
| 13 | Construction of multicomponent catalytic films based on avidin-biotin technology for the electroenzymatic oxidation of molecular hydrogen. <i>Biotechnology and Bioengineering</i> , 2000 , 68, 1-10 | 4.9 | 31 |
| 12 | Simple formal kinetics for the reversible uptake of molecular hydrogen by [Ni-Fe] hydrogenase from <i>Desulfovibrio gigas</i> . <i>FEBS Journal</i> , 2000 , 267, 6560-70 | | 18 |
| 11 | Kinetic characterization of <i>Desulfovibrio gigas</i> hydrogenase upon selective chemical modification of amino acid groups as a tool for structure-function relationships. <i>BBA - Proteins and Proteomics</i> , 2000 , 1481, 371-80 | | 14 |
| 10 | FTIR Characterization of the Active Site of the Fe-hydrogenase from <i>Desulfovibrio desulfuricans</i> . <i>Journal of the American Chemical Society</i> , 2000 , 122, 11232-11233 | 16.4 | 171 |
| 9 | Infrared-Spectroelectrochemical Characterization of the [NiFe] Hydrogenase of <i>Desulfovibrio gigas</i> ?. <i>Journal of the American Chemical Society</i> , 1997 , 119, 7181-7189 | 16.4 | 249 |
| 8 | Structure of the [NiFe] Hydrogenase Active Site: Evidence for Biologically Uncommon Fe Ligands?. <i>Journal of the American Chemical Society</i> , 1996 , 118, 12989-12996 | 16.4 | 579 |
| 7 | Electron transfer between viologen derivatives and the flavoprotein ferredoxin-NADP ⁺ reductase. <i>Bioelectrochemistry</i> , 1995 , 38, 179-184 | | 7 |
| 6 | Amperometric enzyme electrode for NADP ⁺ based on a ferredoxin-NADP ⁺ reductase and viologen-modified glassy carbon electrode. <i>Journal of Electroanalytical Chemistry</i> , 1995 , 390, 69-76 | 4.1 | 32 |
| 5 | pH-dependent redox behaviour of asymmetric viologens. <i>Journal of Electroanalytical Chemistry</i> , 1995 , 399, 163-167 | 4.1 | 8 |
| 4 | The covalent linkage of a viologen to a flavoprotein reductase transforms it into an oxidase. <i>FEBS Journal</i> , 1995 , 233, 593-9 | | 7 |
| 3 | Covalent binding of viologen to electrode surfaces coated with poly(acrylic acid) formed by electropolymerization of acrylate ions. <i>Journal of Electroanalytical Chemistry</i> , 1993 , 358, 247-259 | 4.1 | 21 |
| 2 | Covalent binding of viologen to electrode surfaces coated with poly(acrylic acid) prepared by electropolymerization of acrylate ions. <i>Journal of Electroanalytical Chemistry</i> , 1993 , 358, 261-272 | 4.1 | 22 |
| 1 | Electrochemical studies of galactose oxidase. <i>Electrochemical Science Advances</i> , e2100171 | | 1 |