Mark E Meyerhoff

List of Publications by Year
in descending order

167 papers	8,452 citations	28274 55 h-index	54911 84 g-index
169 all docs	169 docs citations	169 times ranked	5057 citing authors

#	Article	IF	Citations
1	Polymers incorporating nitric oxide releasing/generating substances for improved biocompatibility of blood-contacting medical devices. Biomaterials, 2005, 26, 1685-1693.	11.4	315
2	Preparation and characterization of hydrophobic polymeric films that are thromboresistant via nitric oxide release. Biomaterials, 2000, 21, 9-21.	11.4	205
3	Recent advances in thromboresistant and antimicrobial polymers for biomedical applications: just say yes to nitric oxide (NO). Biomaterials Science, 2016, 4, 1161-1183.	5.4	197
4	Nitric Oxide-Releasing Fumed Silica Particles:Â Synthesis, Characterization, and Biomedical Application. Journal of the American Chemical Society, 2003, 125, 5015-5024.	13.7	176
5	Response Mechanism of Polymer Membrane-Based Potentiometric Polyion Sensors. Analytical Chemistry, 1994, 66, 2250-2259.	6.5	174
6	Nitric oxide releasing silicone rubbers with improved blood compatibility: preparation, characterization, and in vivo evaluation. Biomaterials, 2002, 23, 1485-1494.	11.4	165
7	Heparin-responsive electrochemical sensor: a preliminary study. Analytical Chemistry, 1992, 64, 694-697.	6.5	157
8	Reduced platelet activation and thrombosis in extracorporeal circuits coated with nitric oxide release polymers. Critical Care Medicine, 2000, 28, 915-920.	0.9	144
9	In Vivo Chemical Sensors: Tackling Biocompatibility. Analytical Chemistry, 2006, 78, 7370-7377.	6.5	139
10	Implantable chemical sensors for real-time clinical monitoring: progress and challenges. Current Opinion in Chemical Biology, 2002, 6, 633-641.	6.1	136
11	Long-term nitric oxide release and elevated temperature stability with S-nitroso-N-acetylpenicillamine (SNAP)-doped Elast-eon E2As polymer. Biomaterials, 2013, 34, 6957-6966.	11.4	131
12	Recent Advances in the Development and Analytical Applications of Biosensing Probes. CRC Critical Reviews in Analytical Chemistry, 1988, 20, 149-196.	1.8	130
13	Electrochemical sensor for heparin: further characterization and bioanalytical applications. Analytical Chemistry, 1993, 65, 2078-2084.	6.5	130
14	Catalytic generation of nitric oxide from S-nitrosothiols using immobilized organoselenium species. Biomaterials, 2007, 28, 19-27.	11.4	121
15	Improving the Thromboresistivity of Chemical Sensors via Nitric Oxide Release:Â Fabrication and in Vivo Evaluation of NO-Releasing Oxygen-Sensing Catheters. Analytical Chemistry, 2000, 72, 1119-1126.	6.5	119
16	The attenuation of platelet and monocyte activation in a rabbit model of extracorporeal circulation by a nitric oxide releasing polymer. Biomaterials, 2010, 31, 2736-2745.	11.4	119
17	Controlled Photoinitiated Release of Nitric Oxide from Polymer Films ContainingS-Nitroso-N-acetyl-dl-penicillamine Derivatized Fumed Silica Filler. Journal of the American Chemical Society, 2004, 126, 1348-1349.	13.7	115
18	More Lipophilic Dialkyldiamine-Based Diazeniumdiolates:â€‰ Synthesis, Characterization, and Application in Preparing Thromboresistant Nitric Oxide Release Polymeric Coatings. Journal of Medicinal Chemistry, 2003, 46, 5153-5161.	6.4	114

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19	Response Characteristics of Anion-Selective Polymer Membrane Electrodes Based on Gallium(III), Indium(III) and Thallium(III) Porphyrins.. Analytical Sciences, 1998, 14, 79-84.	1.6	111
20	Thrombogenic Properties of Untreated and Poly(ethylene oxide)-Modified Polymeric Matrixes Useful for Preparing Intraarterial Ion-Selective Electrodes. Analytical Chemistry, 1995, 67, 3108-3114.	6.5	110
21	Peer Reviewed: Polyion-Sensitive Membrane Electrodes for Biomedical Analysis. Analytical Chemistry, 1996, 68, 168A-175A.	6.5	108
22	Mixed Potential Response Mechanism of Cobalt Electrodes toward Inorganic Phosphate. Analytical Chemistry, 1996, 68, 2022-2026.	6.5	106
23	Preparation and characterization of polymeric coatings with combined nitric oxide release and immobilized active heparin. Biomaterials, 2005, 26, 6506-6517.	11.4	105
24	Cystic Fibrosis Transmembrane Conductance Regulator. Journal of General Physiology, 1999, 114, 799-818.	1.9	104
25	The hemocompatibility of a nitric oxide generating polymer that catalyzes S-nitrosothiol decomposition in an extracorporeal circulation model. Biomaterials, 2011, 32, 5957-5969.	11.4	102
26	Nitric Oxide-Releasing Hydrophobic Polymers: Preparation, Characterization, and Potential Biomedical Applications. Free Radical Biology and Medicine, 2004, 37, 926-936.	2.9	100
27	Origin of Non-Nernstian Anion Response Slopes of Metalloporphyrin-Based Liquid/Polymer Membrane Electrodes. Analytical Chemistry, 2000, 72, 5766-5773.	6.5	98
28	Improved protamine-sensitive membrane electrode for monitoring heparin concentrations in whole blood via protamine titrationÂ§. Clinical Chemistry, 1998, 44, 606-613.	3.2	97
29	Ionophore-based membrane electrodes: new analytical concepts and non-classical response mechanisms. Analytica Chimica Acta, 2000, 416, 121-137.	5.4	96
30	Origin of Long-Term Storage Stability and Nitric Oxide Release Behavior of CarboSil Polymer Doped with S-Nitroso-N-acetyl-<scp>d</scp>-penicillamine. ACS Applied Materials & Interfaces, 2015, 7, 22218-22227.	8.0	96
31	Spontaneous Catalytic Generation of Nitric Oxide from S-Nitrosothiols at the Surface of Polymer Films Doped with Lipophilic Copper(II) Complex. Journal of the American Chemical Society, 2003, 125, 9552-9553.	13.7	94
32	In Vivo Biocompatibility and Analytical Performance of Intravascular Amperometric Oxygen Sensors Prepared with Improved Nitric Oxide-Releasing Silicone Rubber Coating. Analytical Chemistry, 2002, 74, 5942-5947.	6.5	93
33	Synthesis and Characterization of Polymethacrylate-Based Nitric Oxide Donors. Journal of the American Chemical Society, 2002, 124, 12182-12191.	13.7	90
34	Mediation ofin vivo glucose sensor inflammatory response via nitric oxide release. Journal of Biomedical Materials Research - Part A, 2005, 75A, 755-766.	4.0	90
35	Polymeric coatings that mimic the endothelium: Combining nitric oxide release with surface-bound active thrombomodulin and heparin. Biomaterials, 2007, 28, 4047-4055.	11.4	90
36	Integration of molecular and enzymatic catalysts on graphene for biomimetic generation of antithrombotic species. Nature Communications, 2014, 5, 3200.	12.8	90

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37	Reduction in thrombosis and bacterial adhesion with 7 day implantation of S-nitroso-N-acetylpenicillamine (SNAP)-doped Elast-eon E2As catheters in sheep. Journal of Materials Chemistry B, 2015, 3, 1639-1645.	5.8	85
38	Nitric Oxide Releasing Polyurethanes with Covalently Linked Diazeniumdiolated Secondary Amines. Biomacromolecules, 2006, 7, 987-994.	5.4	83
39	Reversible Detection of Heparin and Other Polyanions by Pulsed Chronopotentiometric Polymer Membrane Electrode. Analytical Chemistry, 2010, 82, 1612-1615.	6.5	81
40	S-Nitroso-N-acetylpenicillamine (SNAP) Impregnated Silicone Foley Catheters: A Potential Biomaterial/Device To Prevent Catheter-Associated Urinary Tract Infections. ACS Biomaterials Science and Engineering, 2015, 1, 416-424.	5.2	78
41	Optimized polymeric film-based nitric oxide delivery inhibits bacterial growth in a mouse burn wound model. Acta Biomaterialia, 2014, 10, 4136-4142.	8.3	73
42	Rotating Electrode Potentiometry:Â Lowering the Detection Limits of Nonequilibrium Polyion-Sensitive Membrane Electrodes. Analytical Chemistry, 2001, 73, 332-336.	6.5	69
43	Diazeniumdiolate-doped poly(lactic-co-glycolic acid)-based nitric oxide releasing films as antibiofilm coatings. Biomaterials, 2012, 33, 7933-7944.	11.4	68
44	Thromboresistant Chemical Sensors Using Combined Nitric Oxide Release/Ion Sensing Polymeric Films. Journal of the American Chemical Society, 1997, 119, 2321-2322.	13.7	67
45	Effect of varying nitric oxide release to prevent platelet consumption and preserve platelet function in an in vivo model of extracorporeal circulation. Perfusion (United Kingdom), 2007, 22, 193-200.	1.0	66
46	Inhibition of bacterial adhesion and biofilm formation by dual functional textured and nitric oxide releasing surfaces. Acta Biomaterialia, 2017, 51, 53-65.	8.3	66
47	Improved hemocompatibility of silicone rubber extracorporeal tubing via solvent swelling-impregnation of S-nitroso-N-acetylpenicillamine (SNAP) and evaluation in rabbit thrombogenicity model. Acta Biomaterialia, 2016, 37, 111-119.	8.3	64
48	An Ionophoreâ€Based Anionâ€Selective Optode Printed on Cellulose Paper. Angewandte Chemie - International Edition, 2017, 56, 11826-11830.	13.8	64
49	Catheter-type sensor for potentiometric monitoring of oxygen, pH and carbon dioxide. Biosensors and Bioelectronics, 1998, 13, 201-212.	10.1	63
50	Reduction of Thrombosis and Bacterial Infection via Controlled Nitric Oxide (NO) Release from S-Nitroso-N-acetylpenicillamine (SNAP) Impregnated CarboSil Intravascular Catheters. ACS Biomaterials Science and Engineering, 2017, 3, 349-359.	5.2	61
51	Blood coagulation response and bacterial adhesion to biomimetic polyurethane biomaterials prepared with surface texturing and nitric oxide release. Acta Biomaterialia, 2019, 84, 77-87.	8.3	61
52	Attenuation of thrombosis and bacterial infection using dual function nitric oxide releasing central venous catheters in a 9 day rabbit model. Acta Biomaterialia, 2016, 44, 304-312.	8.3	59
53	Retention Behavior of Amino Acids and Peptides on Protoporphyrin-Silica Stationary Phases with Varying Metal Ion Centers. Analytical Chemistry, 1996, 68, 2818-2825.	6.5	58
54	Nitric oxide-releasing/generating polymers for the development of implantable chemical sensors with enhanced biocompatibility. Talanta, 2008, 75, 642-650.	5.5	58

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55	Invitro and in vivo study of sustained nitric oxide release coating using diazeniumdiolate-doped poly(vinyl chloride) matrix with poly(lactide-co-glycolide) additive. Journal of Materials Chemistry B, 2013, 1, 3578.	5.8	58
56	Hemocompatibility comparison of biomedical grade polymers using rabbit thrombogenicity model for preparing nonthrombogenic nitric oxide releasing surfaces. Journal of Materials Chemistry B, 2014, 2, 1059-1067.	5.8	57
57	Potentiometric Ion-, Gas-, and Bio-Selective Membrane Electrodes. Critical Reviews in Analytical Chemistry, 1992, 23, 163-186.	3.5	55
58	Electrochemically Modulated Nitric Oxide (NO) Releasing Biomedical Devices via Copper(II)-Tri(2-pyridylmethyl)amine Mediated Reduction of Nitrite. ACS Applied Materials & Interfaces, 2014, 6, 3779-3783.	8.0	54
59	Polymethacrylates with a Covalently Linked Cullâ€“Cyclen Complex for the In Situ Generation of Nitric Oxide from Nitrosothiols in Blood. Angewandte Chemie - International Edition, 2006, 45, 2745-2748.	13.8	53
60	Real-Time Monitoring of Critical Care Analytes in the Bloodstream with Chemical Sensors: Progress and Challenges. Annual Review of Analytical Chemistry, 2015, 8, 171-192.	5.4	52
61	Immobilization of proteins on gold coated porous membranes via an activated self-assembled monolayer of thioctic acid. Mikrochimica Acta, 1995, 117, 195-206.	5.0	51
62	Preparation and characterization of implantable sensors with nitric oxide release coatings. Microchemical Journal, 2003, 74, 277-288.	4.5	51
63	Paper-based plasticizer-free sodium ion-selective sensor with camera phone as a detector. Chemical Communications, 2015, 51, 15176-15179.	4.1	51
64	Efficient Eradication of Mature Pseudomonas aeruginosa Biofilm via Controlled Delivery of Nitric Oxide Combined with Antimicrobial Peptide and Antibiotics. Frontiers in Microbiology, 2016, 7, 1260.	3.5	48
65	Biodegradable poly(lactic-co-glycolic acid) microspheres loaded with S-nitroso-N-acetyl-D-penicillamine for controlled nitric oxide delivery. Journal of Controlled Release, 2016, 225, 133-139.	9.9	48
66	Simplified dual-lumen catheter design for simultaneous potentiometric monitoring of carbon dioxide and pH. Analytical Chemistry, 1994, 66, 576-583.	6.5	47
67	Fluoride-Selective Optical Sensor Based on Aluminum(III)â^'Octaethylporphyrin in Thin Polymeric Film:â€‰ Further Characterization and Practical Application. Analytical Chemistry, 2005, 77, 6719-6728.	6.5	46
68	Thromboresistant/anti-biofilm catheters via electrochemically modulated nitric oxide release. Bioelectrochemistry, 2015, 104, 10-16.	4.6	45
69	Improved Hemocompatibility of Multilumen Catheters via Nitric Oxide (NO) Release from S-Nitroso-N-acetylpenicillamine (SNAP) Composite Filled Lumen. ACS Applied Materials & Interfaces, 2016, 8, 29270-29279.	8.0	45
70	Influence of Nonionic Surfactants on the Potentiometric Response of Hydrogen Ion-Selective Polymeric Membrane Electrodes. Analytical Chemistry, 1996, 68, 1623-1631.	6.5	43
71	In vitro platelet adhesion on polymeric surfaces with varying fluxes of continuous nitric oxide release. Journal of Biomedical Materials Research - Part A, 2007, 81A, 956-963.	4.0	43
72	Polymeric optical sensors for selective and sensitive nitrite detection using cobalt(III) corrole and rhodium(III) porphyrin as ionophores. Analytica Chimica Acta, 2014, 843, 89-96.	5.4	42

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73	More Biocompatible Electrochemical Sensors Using Nitric Oxide Release Polymers. Electroanalysis, 1999, 11, 681-686.	2.9	41
74	Inkjet-Printed Paper-Based Colorimetric Polyion Sensor Using a Smartphone as a Detector. Analytical Chemistry, 2017, 89, 12334-12341.	6.5	41
75	Potentiometric anion response of poly (tetrakis(p-aminophenyl)porphyrin) film-modified electrodes. Electroanalysis, 1992, 4, 841-849.	2.9	40
76	Direct potentiometric membrane electrode measurements of heparin binding to macromolecules. Electroanalysis, 1993, 5, 719-724.	2.9	37
77	Influence of Nonionic Surfactants on the Potentiometric Response of Ion-Selective Polymeric Membrane Electrodes Designed for Blood Electrolyte Measurements. Analytical Chemistry, 1998, 70, 1477-1488.	6.5	37
78	Intravascular glucose/lactate sensors prepared with nitric oxide releasing poly(lactide-co-glycolide)-based coatings for enhanced biocompatibility. Biosensors and Bioelectronics, 2011, 26, 4276-4282.	10.1	37
79	Comparison of electrochemical nitric oxide detection methods with chemiluminescence for measuring nitrite concentration in food samples. Analytica Chimica Acta, 2019, 1077, 167-173.	5.4	36
80	Characterization of photopolymerized decyl methacrylate as a membrane matrix for ion-selective electrodes. Electroanalysis, 1996, 8, 1095-1100.	2.9	35
81	Shape-Selective Retention of Polycyclic Aromatic Hydrocarbons on Metalloprotoporphyrinâˆ'Silica Phases:Â Effect of Metal Ion Center and Porphyrin Coverage. Analytical Chemistry, 1998, 70, 2523-2529.	6.5	35
82	Optical Detection of Macromolecular Heparin via Selective Coextraction into Thin Polymeric Films. Analytical Chemistry, 1995, 67, 522-527.	6.5	34
83	Nitric Oxide-Releasing Fluorescence-Based Oxygen Sensing Polymeric Films. Analytical Chemistry, 2002, 74, 5937-5941.	6.5	34
84	A Nitric Oxide-Releasing Heparin Conjugate for Delivery of a Combined Antiplatelet/Anticoagulant Agent. Molecular Pharmaceutics, 2014, 11, 645-650.	4.6	33
85	Selective monitoring of peptidase activities with synthetic polypeptide substrates and polyionâ€sensitive membrane electrode detection. FASEB Journal, 1996, 10, 1621-1626.	0.5	32
86	Study of Cobalt(III) Corrole as the Neutral Ionophore for Nitrite and Nitrate Detection via Polymeric Membrane Electrodes. Electroanalysis, 2013, 25, 2579-2585.	2.9	32
87	Salicylate Detection by Complexation with Iron(III) and Optical Absorbance Spectroscopy. An Undergraduate Quantitative Analysis Experiment. Journal of Chemical Education, 2008, 85, 1658.	2.3	31
88	The immobilization of a direct thrombin inhibitor to a polyurethane as a nonthrombogenic surface coating for extracorporeal circulation. Journal of Materials Chemistry B, 2016, 4, 2264-2272.	5.8	30
89	Antimicrobial nitric oxide releasing surfaces based on S-nitroso-N-acetylpenicillamine impregnated polymers combined with submicron-textured surface topography. Biomaterials Science, 2017, 5, 1265-1278.	5.4	30
90	Study of crystal formation and nitric oxide (NO) release mechanism from S-nitroso-N-acetylpenicillamine (SNAP)-doped CarboSil polymer composites for potential antimicrobial applications. Composites Part B: Engineering, 2017, 121, 23-33.	12.0	30

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91	Nitric Oxide Generation on Demand for Biomedical Applications via Electrocatalytic Nitrite Reduction by Copper BMPA- and BEPA-Carboxylate Complexes. ACS Catalysis, 2019, 9, 7746-7758.	11.2	30
92	Polymer membrane-based polyion sensors: Development, response mechanism, and bioanalytical applications. Electroanalysis, 1995, 7, 823-829.	2.9	29
93	Improved in Vivo Performance of Amperometric Oxygen (PO₂) Sensing Catheters via Electrochemical Nitric Oxide Generation/Release. Analytical Chemistry, 2015, 87, 8067-8072.	6.5	29
94	Enzyme-linked flow-injection immunoassay using immobilized secondary antibodies. Mikrochimica Acta, 1988, 96, 207-221.	5.0	27
95	Polyion-sensitive membrane electrodes for detecting phosphate-rich biological polyanions. Electroanalysis, 1997, 9, 1325-1330.	2.9	27
96	Electrochemical Assay of Proteinase Inhibitors Using Polycation-Sensitive Membrane Electrode Detection. Analytical Biochemistry, 1997, 250, 74-81.	2.4	26
97	Determination of pentosan polysulfate and its binding to polycationic species using polyion-sensitive membrane electrodes. Analytica Chimica Acta, 2001, 432, 253-260.	5.4	26
98	Tailored synthesis of nitric oxide-releasing polyurethanes using O2-protected diazeniumdiolated chain extenders. Journal of Materials Chemistry, 2010, 20, 3107.	6.7	26
99	Portable Nitric Oxide (NO) Generator Based on Electrochemical Reduction of Nitrite for Potential Applications in Inhaled NO Therapy and Cardiopulmonary Bypass Surgery. Molecular Pharmaceutics, 2017, 14, 3762-3771.	4.6	26
100	Optical Detection of Polycations via Polymer Film-Modified Microtiter Plates:â€‰ Response Mechanism and Bioanalytical Applications. Analytical Chemistry, 2000, 72, 3142-3149.	6.5	25
101	Measurement of ammonia and glutamine in cell culture media by gas sensing electrodes. Biotechnology Letters, 1989, 3, 217-222.	0.5	24
102	Nitric oxide-releasing semi-crystalline thermoplastic polymers: preparation, characterization and application to devise anti-inflammatory and bactericidal implants. Biomaterials Science, 2018, 6, 3189-3201.	5.4	24
103	Simultaneous enzymatic/electrochemical determination of glucose andL-glutamine in hybridoma media by flow-injection analysis.. Biotechnology and Bioengineering, 1993, 41, 964-969.	3.3	23
104	Potentiometric Response Characteristics of Polycation-Sensitive Membrane Electrodes toward Poly(amidoamine) and Poly(propylenimine) Dendrimers. Analytical Chemistry, 2004, 76, 1474-1482.	6.5	23
105	Transport of Nitric Oxide (NO) in Various Biomedical grade Polyurethanes: Measurements and Modeling Impact on NO Release Properties of Medical Devices. ACS Biomaterials Science and Engineering, 2016, 2, 1483-1492.	5.2	23
106	The preparation and characterization of nitric oxide releasing silicone rubber materials impregnated with S-nitroso-tert-dodecyl mercaptan. Journal of Materials Chemistry B, 2016, 4, 422-430.	5.8	23
107	Comparison of Copper(II)â€“Ligand Complexes as Mediators for Preparing Electrochemically Modulated Nitric Oxide-Releasing Catheters. ACS Applied Materials & Interfaces, 2018, 10, 25047-25055.	8.0	23
108	Advances in electrochemical and optical polyion sensing: A review. Sensors and Actuators B: Chemical, 2018, 272, 643-654.	7.8	23

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109	Photo-Cross-Linked Decyl Methacrylate Films for Electrochemical and Optical Polyion Probes. Analytical Chemistry, 1997, 69, 4092-4098.	6.5	22
110	Nitric oxide releasing two-part creams containing S-nitrosoglutathione and zinc oxide for potential topical antimicrobial applications. Nitric Oxide - Biology and Chemistry, 2019, 90, 1-9.	2.7	22
111	Nonseparation Binding/Immunoassays Using Polycation-Sensitive Membrane Electrode Detection. Electroanalysis, 2001, 13, 276-283.	2.9	21
112	Nitric oxide release for improving performance of implantable chemical sensors â€“ A review. Applied Materials Today, 2017, 9, 589-597.	4.3	21
113	Plasticizer-Free Thin-Film Sodium-Selective Optodes Inkjet-Printed on Transparent Plastic for Sweat Analysis. ACS Applied Materials & Interfaces, 2020, 12, 25616-25624.	8.0	21
114	Organoditelluride-mediated catalytic S-nitrosothiol decomposition. Journal of Materials Chemistry, 2007, 17, 1462.	6.7	20
115	Polyion Selective Polymeric Membrane-Based Pulstrode as a Detector in Flow-Injection Analysis. Analytical Chemistry, 2014, 86, 4041-4046.	6.5	20
116	Improved thromboresistance and analytical performance of intravascular amperometric glucose sensors using optimized nitric oxide release coatings. Chinese Chemical Letters, 2015, 26, 464-468.	9.0	20
117	Controlled light-induced gas phase nitric oxide release from S-nitrosothiol-doped silicone rubber films. Nitric Oxide - Biology and Chemistry, 2019, 86, 31-37.	2.7	20
118	The mediation of platelet quiescence by NO-releasing polymers via cGMP-induced serine 239 phosphorylation of vasodilator-stimulated phosphoprotein. Biomaterials, 2013, 34, 8086-8096.	11.4	19
119	Electrochemically Modulated Nitric Oxide Release From Flexible Silicone Rubber Patch: Antimicrobial Activity For Potential Wound Healing Applications. ACS Biomaterials Science and Engineering, 2016, 2, 1432-1435.	5.2	18
120	Improving Blood Compatibility of Intravascular Oxygen Sensors Via Catalytic Decomposition of S-Nitrosothiols to Generate Nitric Oxide In Situ. Sensors and Actuators B: Chemical, 2007, 121, 36-46.	7.8	18
121	Flow-injection potentiometric determination of creatinine in urine using sub-Nernstian linear response range. Electroanalysis, 1993, 5, 113-120.	2.9	17
122	Ionophoreâ€Based Biphasic Chemical Sensing in Droplet Microfluidics. Angewandte Chemie - International Edition, 2019, 58, 8092-8096.	13.8	17
123	Electromodulated release of nitric oxide through polymer material from reservoir of inorganic nitrite salt. RSC Advances, 2012, 2, 6765.	3.6	16
124	Amperometric Nitric Oxide Sensors with Enhanced Selectivity Over Carbon Monoxide via Platinum Oxide Formation Under Alkaline Conditions. Analytical Chemistry, 2013, 85, 10057-10061.	6.5	16
125	Compatibility of Nitric Oxide Release with Implantable Enzymatic Glucose Sensors Based on Osmium (III/II) Mediated Electrochemistry. ACS Sensors, 2017, 2, 1262-1266.	7.8	16
126	Potentiometric oxygen sensing with copper films: Response mechanism and analytical implications. Electroanalysis, 1995, 7, 1020-1026.	2.9	15

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127	Synthesis and nitric oxide releasing properties of novel fluoroS-nitrosothiols. Chemical Communications, 2019, 55, 401-404.	4.1	15
128	Determination of DNA and its binding to protamine using potentiometric polyion sensors. Journal of Electroanalytical Chemistry, 2007, 602, 138-141.	3.8	14
129	Photoinstability of S-Nitrosothiols during Sampling of Whole Blood: A Likely Source of Error and Variability in S-Nitrosothiol Measurements. Clinical Chemistry, 2008, 54, 916-918.	3.2	14
130	Origin of Low Detection Limit and High Selectivity of Roche Accuâ€Chek Test Strips that Enables Measurement of Tear Glucose Levels. Electroanalysis, 2015, 27, 670-676.	2.9	14
131	Synthesis and characterization of a fluorinated S-nitrosothiol as the nitric oxide donor for fluoropolymer-based biomedical device applications. Journal of Materials Chemistry B, 2018, 6, 6142-6152.	5.8	14
132	Colorimetric copper ion sensing in solution phase and on paper substrate based on catalytic decomposition of S-nitrosothiol. Analytica Chimica Acta, 2019, 1053, 155-161.	5.4	13
133	Bis-diazeniumdiolates of Dialkyldiamines:â€‰ Enhanced Nitric Oxide Loading of Parent Diamines. Organic Letters, 2005, 7, 2813-2816.	4.6	12
134	Evaluation of Polyurethane-Based Membrane Matrices for Optical Ion-Selective Sensors. Analytical Letters, 1993, 26, 1519-1533.	1.8	11
135	Spectrophotometric determination of various polyanions with polymeric film optodes using microtiter plate reader. Analytica Chimica Acta, 2011, 699, 107-112.	5.4	10
136	Highly sensitive amperometric Ptâ€“Nafion gas phase nitric oxide sensor: Performance and application in characterizing nitric oxide-releasing biomaterials. Analytica Chimica Acta, 2015, 887, 186-191.	5.4	10
137	Manual and Flow-Injection Detection/Quantification of Polyquaterniums via Fully Reversible Polyion-Sensitive Polymeric Membrane-Based Ion-Selective Electrodes. ACS Sensors, 2017, 2, 1505-1511.	7.8	10
138	Detection and Quantification of Polyquaterniums via Polyion-Sensitive Ion-Selective Optodes Inkjet Printed on Cellulose Paper. Analytical Sciences, 2018, 34, 45-50.	1.6	10
139	Nitric Oxide-Releasing Insert for Disinfecting the Hub Region of Tunnel Dialysis Catheters. ACS Applied Materials & Interfaces, 2020, 12, 44475-44484.	8.0	10
140	The Effects of the Combined Argatroban/Nitric Oxide-Releasing Polymer on Platelet Microparticle-Induced Thrombogenicity in Coated Extracorporeal Circuits. ASAIO Journal, 2021, 67, 573-582.	1.6	10
141	Enzyme electrode-based differential potentiometric cell with enhanced substrate sensitivity. Electroanalysis, 1989, 1, 205-211.	2.9	9
142	Organoditelluride-tethered polymers that spontaneously generate nitric oxide when in contact with fresh blood. Journal of Materials Chemistry, 2008, 18, 1784.	6.7	9
143	Detecting levels of polyquaternium-10 (PQ-10) via potentiometric titration with dextran sulphate and monitoring the equivalence point with a polymeric membrane-based polyion sensor. Analytical Methods, 2016, 8, 5806-5811.	2.7	9
144	Characterization and Quantification of Polyquaterniums via Single-Use Polymer Membrane-Based Polyion-Sensitive Electrodes. ACS Sensors, 2017, 2, 268-273.	7.8	9

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145	Ionophoreâ€Based Biphasic Chemical Sensing in Droplet Microfluidics. Angewandte Chemie, 2019, 131, 8176-8180.	2.0	9
146	Plasticizer-free and pH-independent ion-selective optode films based on a solvatochromic dye. Analytical Methods, 2020, 12, 2547-2550.	2.7	9
147	S-Nitrosothiol-Impregnated Silicone Catheter for Colorimetric Sensing of Indole and E. coli: Toward On-Body Detection of Urinary Tract Infections. ACS Sensors, 2022, 7, 1712-1719.	7.8	9
148	Reexamination of the Direct Electrochemical Reduction of Sâ€Nitrosothiols. Electroanalysis, 2013, 25, 914-921.	2.9	8
149	Polyionâ€Sensitive Polymeric Membraneâ€Based Pulstrode as a Potentiometric Detector in Liquid Chromatography. Electroanalysis, 2015, 27, 1823-1828.	2.9	8
150	Nitric oxide releasing poly(vinylidene fluoride-co-hexafluoropropylene) films using a fluorinated nitric oxide donor to greatly decrease chemical leaching. Acta Biomaterialia, 2019, 90, 112-121.	8.3	8
151	Enhanced Hemocompatibility and In Vivo Analytical Accuracy of Intravascular Potentiometric Carbon Dioxide Sensors via Nitric Oxide Release. Analytical Chemistry, 2020, 92, 13641-13646.	6.5	8
152	Studies of combined NO-eluting/CD47-modified polyurethane surfaces for synergistic enhancement of biocompatibility. Colloids and Surfaces B: Biointerfaces, 2020, 192, 111060.	5.0	8
153	Performance of Amperometric Platinizedâ€Nafion Based Gas Phase Sensor for Determining Nitric Oxide (NO) Levels in Exhaled Human Nasal Breath. Electroanalysis, 2018, 30, 1610-1615.	2.9	7
154	Feedback-controlled photolytic gas phase nitric oxide delivery from S-nitrosothiol-doped silicone rubber films. Journal of Controlled Release, 2020, 318, 264-269.	9.9	7
155	Synthesis of N-acetylneuraminyl-Î±2,3(6)lactose-malate dehydrogenase conjugate for detecting sialic acid terminal groups on glycoproteins via homogeneous lectin-based enzyme-linked binding assay. Applied Biochemistry and Biotechnology, 1997, 68, 41-56.	2.9	6
156	An Ionophoreâ€Based Anionâ€Selective Optode Printed on Cellulose Paper. Angewandte Chemie, 2017, 129, 11988-11992.	2.0	6
157	Nitric Oxide Release for Enhanced Biocompatibility and Analytical Performance of Implantable Electrochemical Sensors. Electroanalysis, 2021, 33, 1997-2015.	2.9	6
158	Delivering nitric oxide with poly(n-butyl methacrylate) films doped with S-nitroso-N-acetylpenicillamine. Polymer, 2021, 228, 123943.	3.8	6
159	Flow-injection analysis with immobilized oxidase/peroxidase enzymes and fluoride electrode detection. Electroanalysis, 1990, 2, 525-531.	2.9	5
160	Comparison of Diazeniumdiolated Dialkylhexanediamines as Nitric Oxide Release Agents on Nonthrombogenicity in an Extracorporeal Circulation Model. ACS Applied Bio Materials, 2020, 3, 466-476.	4.6	5
161	Electrochemical generation of nitric oxide for medical applications. Electrochemical Science Advances, 2022, 2, e2100156.	2.8	5
162	Enhancement of Inducible Nitric Oxide Synthase Activity by Low Molecular Weight Peptides Derived from Protamine: A Potential Therapy for Chronic Rhinosinusitis. Molecular Pharmaceutics, 2015, 12, 2396-2405.	4.6	4

#	Article	IF	Citations
163	Polyion Detection via Allâ€solidâ€contact Paperâ€based Polyionâ€sensitive Polymeric Membrane Electrodes. Electroanalysis, 2019, 31, 1416-1420.	2.9	4
164	Attenuation of thrombin-mediated fibrin formationviachanges in fibrinogen conformation induced by reaction withS-nitroso-N-acetylpenicillamine, but notS-nitrosoglutathione. Journal of Materials Chemistry B, 2018, 6, 7954-7965.	5.8	3
165	Asymmetric Anionâ€selective Membrane Electrode for Determining Nitric Oxide Release Rates from Ppolymeric Films/Electrochemical Devices. Electroanalysis, 2016, 28, 277-281.	2.9	2
166	Portable Bluetooth Microsystem for Electrochemically Modulated Nitric Oxide-Releasing Catheters. , 2019, , .		0
167	Characterization of the impact of mixing and droplet volumes on the behavior of microfluidic ion-selective droptodes. Analyst, The, 2021, 146, 5095-5101.	3.5	0