

# Mark H Schoenfisch

## List of Publications by Year in descending order

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164  
papers

13,751  
citations

20817

60  
h-index

22832

112  
g-index

165  
all docs

165  
docs citations

165  
times ranked

12923  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reducing implant-related infections: active release strategies. <i>Chemical Society Reviews</i> , 2006, 35, 780.	38.1	1,077
2	Nitric oxide release: Part II. Therapeutic applications. <i>Chemical Society Reviews</i> , 2012, 41, 3742.	38.1	784
3	Air Stability of Alkanethiol Self-Assembled Monolayers on Silver and Gold Surfaces. <i>Journal of the American Chemical Society</i> , 1998, 120, 4502-4513.	13.7	502
4	Nitric oxide release: Part I. Macromolecular scaffolds. <i>Chemical Society Reviews</i> , 2012, 41, 3731.	38.1	402
5	Anti-biofilm efficacy of nitric oxide-releasing silica nanoparticles. <i>Biomaterials</i> , 2009, 30, 2782-2789.	11.4	343
6	Bactericidal Efficacy of Nitric Oxide-Releasing Silica Nanoparticles. <i>ACS Nano</i> , 2008, 2, 235-246.	14.6	307
7	Antibacterial Fluorinated Silica Colloid Superhydrophobic Surfaces. <i>Langmuir</i> , 2011, 27, 9597-9601.	3.5	286
8	Nitric oxide release: Part III. Measurement and reporting. <i>Chemical Society Reviews</i> , 2012, 41, 3753.	38.1	280
9	Biocompatible Materials for Continuous Glucose Monitoring Devices. <i>Chemical Reviews</i> , 2013, 113, 2528-2549.	47.7	276
10	Analytical Chemistry of Nitric Oxide. <i>Annual Review of Analytical Chemistry</i> , 2009, 2, 409-433.	5.4	253
11	Nitric Oxide Therapy for Diabetic Wound Healing. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801210.	7.6	253
12	Electrochemical Sensors. <i>Analytical Chemistry</i> , 2010, 82, 4723-4741.	6.5	243
13	Silica Nanoparticle Phytotoxicity to <i>Arabidopsis thaliana</i> . <i>Environmental Science &amp; Technology</i> , 2012, 46, 10247-10254.	10.0	213
14	Preparation and characterization of hydrophobic polymeric films that are thromboresistant via nitric oxide release. <i>Biomaterials</i> , 2000, 21, 9-21.	11.4	205
15	Electrochemical Sensors. <i>Analytical Chemistry</i> , 2008, 80, 4499-4517.	6.5	203
16	Synthesis of Nitric Oxide-Releasing Silica Nanoparticles. <i>Journal of the American Chemical Society</i> , 2007, 129, 4612-4619.	13.7	192
17	Nitric oxide-releasing sol-gels as antibacterial coatings for orthopedic implants. <i>Biomaterials</i> , 2005, 26, 917-924.	11.4	185
18	Role of Size and Shape on Biofilm Eradication for Nitric Oxide-Releasing Silica Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 9322-9329.	8.0	182

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19	An experimental murine model to study periodontitis. <i>Nature Protocols</i> , 2018, 13, 2247-2267.	12.0	177
20	Inhibition of implant-associated infections via nitric oxide release. <i>Biomaterials</i> , 2005, 26, 6984-6990.	11.4	160
21	Examination of bacterial resistance to exogenous nitric oxide. <i>Nitric Oxide - Biology and Chemistry</i> , 2012, 26, 169-173.	2.7	154
22	Electrochemical nitric oxide sensors for physiological measurements. <i>Chemical Society Reviews</i> , 2010, 39, 1925.	38.1	151
23	Cytotoxicity of Polypropylenimine Dendrimer Conjugates on Cultured Endothelial Cells. <i>Biomacromolecules</i> , 2007, 8, 3853-3859.	5.4	148
24	Dendrimers as a Scaffold for Nitric Oxide Release. <i>Journal of the American Chemical Society</i> , 2006, 128, 8265-8271.	13.7	146
25	Surface Enhancement Factors for Ag and Au Surfaces Relative to Pt Surfaces for Monolayers of Thiophenol. <i>Applied Spectroscopy</i> , 1999, 53, 1212-1221.	2.2	141
26	Reduced foreign body response at nitric oxide-releasing subcutaneous implants. <i>Biomaterials</i> , 2007, 28, 4571-4580.	11.4	138
27	Nitric oxide-releasing chitosan oligosaccharides as antibacterial agents. <i>Biomaterials</i> , 2014, 35, 1716-1724.	11.4	136
28	Solâˆ“Gel Derived Nitric-Oxide Releasing Materials that Reduce Bacterial Adhesion. <i>Journal of the American Chemical Society</i> , 2001, 123, 9712-9713.	13.7	126
29	Nitric Oxideâ€“Releasing Macromolecular Scaffolds for Antibacterial Applications. <i>Advanced Healthcare Materials</i> , 2018, 7, e1800155.	7.6	124
30	Synthesis of Nitric Oxide-Releasing Gold Nanoparticles. <i>Journal of the American Chemical Society</i> , 2005, 127, 9362-9363.	13.7	123
31	Water-Soluble Nitric Oxide-Releasing Gold Nanoparticles. <i>Langmuir</i> , 2007, 23, 4938-4943.	3.5	122
32	Influence of Scaffold Size on Bactericidal Activity of Nitric Oxide-Releasing Silica Nanoparticles. <i>ACS Nano</i> , 2011, 5, 7235-7244.	14.6	121
33	Nitric Oxide-Releasing Dendrimers as Antibacterial Agents. <i>Biomacromolecules</i> , 2012, 13, 3343-3354.	5.4	121
34	Improving the Thromboresistivity of Chemical Sensors via Nitric Oxide Release:Âˆ Fabrication and in Vivo Evaluation of NO-Releasing Oxygen-Sensing Catheters. <i>Analytical Chemistry</i> , 2000, 72, 1119-1126.	6.5	119
35	S-Nitrosothiol-Modified Dendrimers as Nitric Oxide Delivery Vehicles. <i>Biomacromolecules</i> , 2008, 9, 834-841.	5.4	118
36	Nitric Oxide-Releasing Amphiphilic Poly(amidoamine) (PAMAM) Dendrimers as Antibacterial Agents. <i>Biomacromolecules</i> , 2013, 14, 3589-3598.	5.4	114

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37	Dual Action Antimicrobials: Nitric Oxide Release from Quaternary Ammonium-Functionalized Silica Nanoparticles. <i>Biomacromolecules</i> , 2012, 13, 3334-3342.	5.4	113
38	Local delivery of nitric oxide: Targeted delivery of therapeutics to bone and connective tissues. <i>Advanced Drug Delivery Reviews</i> , 2012, 64, 1177-1188.	13.7	110
39	Inaccuracies of Nitric Oxide Measurement Methods in Biological Media. <i>Analytical Chemistry</i> , 2013, 85, 1957-1963.	6.5	105
40	Nitric oxide-releasing S-nitrosothiol-modified xerogels. <i>Biomaterials</i> , 2009, 30, 4494-4502.	11.4	103
41	Preparation of Nitric Oxide (NO)-Releasing Solâˆ“Gels for Biomaterial Applications. <i>Chemistry of Materials</i> , 2003, 15, 4193-4199.	6.7	101
42	Antibacterial nitric oxide-releasing xerogels: Cell viability and parallel plate flow cell adhesion studies. <i>Biomaterials</i> , 2007, 28, 1948-1956.	11.4	98
43	Inorganic/Organic Hybrid Silica Nanoparticles as a Nitric Oxide Delivery Scaffold. <i>Chemistry of Materials</i> , 2008, 20, 239-249.	6.7	98
44	Reduced bacterial adhesion to fibrinogen-coated substrates via nitric oxide release. <i>Biomaterials</i> , 2008, 29, 4039-4044.	11.4	94
45	Nitric Oxide-Releasing Silica Nanoparticle Inhibition of Ovarian Cancer Cell Growth. <i>Molecular Pharmaceutics</i> , 2010, 7, 775-785.	4.6	94
46	Fluorinated Xerogel-Derived Microelectrodes for Amperometric Nitric Oxide Sensing. <i>Analytical Chemistry</i> , 2008, 80, 6850-6859.	6.5	91
47	Direct oriented immobilization of F(abâ€²) antibody fragments on gold. <i>Analytica Chimica Acta</i> , 2003, 496, 73-80.	5.4	89
48	StÃ¼ber Synthesis of Nitric Oxide-Releasing S-Nitrosothiol-Modified Silica Particles. <i>Chemistry of Materials</i> , 2011, 23, 1727-1735.	6.7	89
49	Electrochemical Nitric Oxide Sensors: Principles of Design and Characterization. <i>Chemical Reviews</i> , 2019, 119, 11551-11575.	47.7	88
50	Morphological analysis of the antimicrobial action of nitric oxide on Gram-negative pathogens using atomic force microscopy. <i>Acta Biomaterialia</i> , 2009, 5, 1405-1415.	8.3	86
51	Nitric Oxide-Releasing Cyclodextrins. <i>Journal of the American Chemical Society</i> , 2018, 140, 14178-14184.	13.7	81
52	Nitric Oxide-Releasing Quaternary Ammonium-Modified Poly(amidoamine) Dendrimers as Dual Action Antibacterial Agents. <i>Bioconjugate Chemistry</i> , 2014, 25, 918-927.	3.6	76
53	Anti-biofilm action of nitric oxide-releasing alkyl-modified poly(amidoamine) dendrimers against <i>Streptococcus mutans</i> . <i>Acta Biomaterialia</i> , 2016, 29, 198-205.	8.3	72
54	Antibacterial properties of nitric oxide-releasing solâ€“gels. <i>Journal of Biomedical Materials Research - Part A</i> , 2003, 67A, 1276-1283.	4.0	70

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55	Nitric Oxide-Releasing Sol <sup>®</sup> Gel Particle/Polyurethane Glucose Biosensors. <i>Analytical Chemistry</i> , 2004, 76, 4543-4549.	6.5	68
56	Direct Electrochemical Sensing of Hydrogen Sulfide without Sulfur Poisoning. <i>Analytical Chemistry</i> , 2018, 90, 5194-5200.	6.5	67
57	S-Nitrosothiol-modified nitric oxide-releasing chitosan oligosaccharides as antibacterial agents. <i>Acta Biomaterialia</i> , 2015, 12, 62-69.	8.3	66
58	Anti-Biofilm Efficacy of Dual-Action Nitric Oxide-Releasing Alkyl Chain Modified Poly(amidoamine) Dendrimers. <i>Molecular Pharmaceutics</i> , 2015, 12, 1573-1583.	4.6	65
59	Structurally Diverse Nitric Oxide-Releasing Poly(propylene imine) Dendrimers. <i>Chemistry of Materials</i> , 2011, 23, 4227-4233.	6.7	64
60	In Vivo Chemical Sensors: Role of Biocompatibility on Performance and Utility. <i>Analytical Chemistry</i> , 2017, 89, 276-299.	6.5	62
61	Degradable Nitric Oxide-Releasing Biomaterials via Post-Polymerization Functionalization of Cross-Linked Polyesters. <i>Biomacromolecules</i> , 2010, 11, 3208-3215.	5.4	61
62	Shape- and Nitric Oxide Flux-Dependent Bactericidal Activity of Nitric Oxide-Releasing Silica Nanorods. <i>Small</i> , 2013, 9, 2189-2198.	10.0	61
63	Improving the biocompatibility of in vivo sensors via nitric oxide release. <i>Analyst, The</i> , 2006, 131, 609.	3.5	60
64	Influence of Surfactants and Antibody Immobilization Strategy on Reducing Nonspecific Protein Interactions for Molecular Recognition Force Microscopy. <i>Langmuir</i> , 2004, 20, 9729-9735.	3.5	59
65	Changes in Adsorbed Fibrinogen upon Conversion to Fibrin. <i>Langmuir</i> , 2006, 22, 5115-5121.	3.5	57
66	Fabrication of Nitric Oxide-Releasing Porous Polyurethane Membranes-Coated Needle-type Implantable Glucose Biosensors. <i>Analytical Chemistry</i> , 2013, 85, 10488-10494.	6.5	57
67	Reduced ischemia/reperfusion injury via glutathione-initiated nitric oxide-releasing dendrimers. <i>Nitric Oxide - Biology and Chemistry</i> , 2010, 22, 30-36.	2.7	56
68	The effect of nitric oxide surface flux on the foreign body response to subcutaneous implants. <i>Biomaterials</i> , 2012, 33, 6305-6312.	11.4	56
69	Functionalized Mesoporous Silica via an Aminosilane Surfactant Ion Exchange Reaction: Controlled Scaffold Design and Nitric Oxide Release. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 2220-2231.	8.0	55
70	Effects of Electrolyte and Potential on the in Situ Structure of Alkanethiol Self-Assembled Monolayers on Silver. <i>Langmuir</i> , 1999, 15, 509-517.	3.5	51
71	Sol <sup>®</sup> Gel Derived Amperometric Nitric Oxide Microsensor. <i>Analytical Chemistry</i> , 2005, 77, 3494-3501.	6.5	51
72	Antibacterial Efficacy of Exogenous Nitric Oxide on Periodontal Pathogens. <i>Journal of Dental Research</i> , 2014, 93, 1089-1094.	5.2	51

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73	Exogenous Nitric Oxide Improves Antibiotic Susceptibility in Resistant Bacteria. ACS Infectious Diseases, 2021, 7, 23-33.	3.8	51
74	Decreasing Bacterial Colonization of External Fixation Pins Through Nitric Oxide Release Coatings. Journal of Orthopaedic Trauma, 2011, 25, 432-437.	1.4	50
75	In vitro cytotoxicity of nitric oxide-releasing sol-gel derived materials. Biomaterials, 2005, 26, 4405-4415.	11.4	49
76	Photoinitiated Nitric Oxide-Releasing Tertiary S-Nitrosothiol-Modified Xerogels. ACS Applied Materials & Interfaces, 2012, 4, 796-804.	8.0	49
77	A direct and selective electrochemical hydrogen sulfide sensor. Analytica Chimica Acta, 2019, 1045, 67-76.	5.4	49
78	Fibrin Proliferation at Model Surfaces: Influence of Surface Properties. Langmuir, 2005, 21, 1691-1694.	3.5	48
79	Synthesis of nitric oxide-releasing polyurethanes with S-nitrosothiol-containing hard and soft segments. Polymer Chemistry, 2011, 2, 906.	3.9	48
80	Nitric Oxide-Releasing Electrospun Polymer Microfibers. ACS Applied Materials & Interfaces, 2011, 3, 426-432.	8.0	47
81	Microfluidic Amperometric Sensor for Analysis of Nitric Oxide in Whole Blood. Analytical Chemistry, 2013, 85, 6066-6072.	6.5	47
82	Efficacy of surface-generated nitric oxide against Candida albicans adhesion and biofilm formation. Biofouling, 2010, 26, 973-983.	2.2	44
83	Synergy of Nitric Oxide and Silver Sulfadiazine against Gram-Negative, Gram-Positive, and Antibiotic-Resistant Pathogens. Molecular Pharmaceutics, 2010, 7, 2289-2296.	4.6	43
84	Nitric Oxide-Releasing Silica Nanoparticle-Doped Polyurethane Electrospun Fibers. ACS Applied Materials & Interfaces, 2013, 5, 7956-7964.	8.0	43
85	Antibacterial Activity of Nitric Oxide-Releasing Hyperbranched Polyamidoamines. Bioconjugate Chemistry, 2018, 29, 35-43.	3.6	43
86	Complexity of Knob-Hole Fibrin Interaction Revealed by Atomic Force Spectroscopy. Langmuir, 2008, 24, 4979-4988.	3.5	42
87	Xerogel Optical Sensor Films for Quantitative Detection of Nitroxyl. Analytical Chemistry, 2008, 80, 1247-1254.	6.5	42
88	Disruption and eradication of P. aeruginosa biofilms using nitric oxide-releasing chitosan oligosaccharides. Biofouling, 2015, 31, 775-787.	2.2	42
89	Antibacterial Action of Nitric Oxide-Releasing Chitosan Oligosaccharides against Pseudomonas aeruginosa under Aerobic and Anaerobic Conditions. Antimicrobial Agents and Chemotherapy, 2015, 59, 6506-6513.	3.2	42
90	Encapsulation of N-Diazoniumdiolates within Liposomes for Enhanced Nitric Oxide Donor Stability and Delivery. Molecular Pharmaceutics, 2015, 12, 3569-3574.	4.6	42

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91	Active Release of Nitric Oxide-Releasing Dendrimers from Electrospun Polyurethane Fibers. ACS Biomaterials Science and Engineering, 2016, 2, 426-437.	5.2	42
92	Poly(vinyl chloride)-Coated SolâGels for Studying the Effects of Nitric Oxide Release on Bacterial Adhesion. Biomacromolecules, 2004, 5, 2034-2041.	5.4	40
93	Synthesis and Characterization of Nitric Oxide-Releasing SolâGel Microarrays. Langmuir, 2004, 20, 10296-10302.	3.5	40
94	Extended Nitric Oxide-Releasing Polyurethanes via <i>S</i> -Nitrosothiol-Modified Mesoporous Silica Nanoparticles. ACS Applied Materials & Interfaces, 2019, 11, 12216-12223.	8.0	40
95	Mode of Nitric Oxide Delivery Affects Antibacterial Action. ACS Biomaterials Science and Engineering, 2020, 6, 433-441.	5.2	40
96	In Vivo Analytical Performance of Nitric Oxide-Releasing Glucose Biosensors. Analytical Chemistry, 2014, 86, 7141-7149.	6.5	38
97	Glucose Sensor Membranes for Mitigating the Foreign Body Response. Journal of Diabetes Science and Technology, 2011, 5, 1052-1059.	2.2	36
98	Controlled Release of Nitric Oxide from Liposomes. ACS Biomaterials Science and Engineering, 2017, 3, 2136-2143.	5.2	36
99	Nitric Oxide-Releasing Alginates. Biomacromolecules, 2018, 19, 1189-1197.	5.4	36
100	Miniaturized glucose biosensor modified with a nitric oxide-releasing xerogel microarray. Biosensors and Bioelectronics, 2005, 21, 749-757.	10.1	35
101	Antibiofilm Efficacy of Nitric Oxide-Releasing Alginates against Cystic Fibrosis Bacterial Pathogens. ACS Infectious Diseases, 2019, 5, 1327-1335.	3.8	35
102	Nitric Oxide-Releasing Fluorescence-Based Oxygen Sensing Polymeric Films. Analytical Chemistry, 2002, 74, 5937-5941.	6.5	34
103	Fabrication of nitric oxide-releasing polyurethane glucose sensor membranes. Biosensors and Bioelectronics, 2011, 28, 17-24.	10.1	34
104	Catalytic selectivity of metallophthalocyanines for electrochemical nitric oxide sensing. Electrochimica Acta, 2018, 273, 98-104.	5.2	34
105	Antibacterial Properties of Nitric Oxide-Releasing SolâGel Microarrays. Biomacromolecules, 2004, 5, 2493-2495.	5.4	33
106	Influence of Antibody Immobilization Strategy on Molecular Recognition Force Microscopy Measurements. Langmuir, 2005, 21, 3054-3060.	3.5	33
107	Antimicrobial effects of nitric oxide in murine models of Klebsiella pneumonia. Redox Biology, 2021, 39, 101826.	9.0	32
108	Superhydrophobic nitric oxide-releasing xerogels. Acta Biomaterialia, 2014, 10, 3442-3448.	8.3	30

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109	Surface-Localized Release of Nitric Oxide via Sol <sup>~</sup> Gel Chemistry. <i>Journal of the American Chemical Society</i> , 2003, 125, 6068-6069.	13.7	29
110	Kinetic-dependent Killing of Oral Pathogens with Nitric Oxide. <i>Journal of Dental Research</i> , 2015, 94, 1092-1098.	5.2	29
111	Nitric Oxide Permselectivity in Electropolymerized Films for Sensing Applications. <i>ACS Sensors</i> , 2016, 1, 1453-1461.	7.8	29
112	Nitric Oxide-Releasing Hyperbranched Polyaminoglycosides for Antibacterial Therapy. <i>ACS Applied Bio Materials</i> , 2018, 1, 1066-1073.	4.6	27
113	O <sub>2</sub> -Protected diazeniumdiolate-modified silica nanoparticles for extended nitric oxide release from dental composites. <i>Biomaterials Science</i> , 2013, 1, 456.	5.4	26
114	Influence of diabetes on the foreign body response to nitric oxide-releasing implants. <i>Biomaterials</i> , 2018, 157, 76-85.	11.4	26
115	Atomic force microscope studies of fibrinogen adsorption. <i>Analyst, The</i> , 2010, 135, 1201.	3.5	25
116	Increased <i>In Vivo</i> Glucose Recovery via Nitric Oxide Release. <i>Analytical Chemistry</i> , 2011, 83, 1180-1184.	6.5	25
117	Role of Nitric Oxide-Releasing Chitosan Oligosaccharides on Mucus Viscoelasticity. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 1017-1026.	5.2	25
118	Design Considerations for Silica-Particle-Doped Nitric-Oxide-Releasing Polyurethane Glucose Biosensor Membranes. <i>ACS Sensors</i> , 2017, 2, 140-150.	7.8	24
119	Sol <sup>~</sup> gel derived nitric oxide-releasing oxygen sensors. <i>Analyst, The</i> , 2005, 130, 206-212.	3.5	23
120	Sol <sup>~</sup> Gel Derived Potentiometric pH Sensors. <i>Analytical Chemistry</i> , 2005, 77, 848-853.	6.5	23
121	Electrochemical Cleaning of Surface-Confined Carbon Contamination in Self-Assembled Monolayers on Polycrystalline Ag and Au. <i>Langmuir</i> , 2000, 16, 2907-2914.	3.5	22
122	Sequestration of Carbonaceous Species within Alkanethiol Self-Assembled Monolayers on Ag by Raman Spectroscopy. <i>Langmuir</i> , 2000, 16, 2902-2906.	3.5	22
123	<i>Pseudomonas aeruginosa</i> Biofilm Eradication via Nitric Oxide-Releasing Cyclodextrins. <i>ACS Infectious Diseases</i> , 2020, 6, 1940-1950.	3.8	22
124	Conversion of a polysaccharide to nitric oxide-releasing form. dual-mechanism anticoagulant activity of diazeniumdiolated heparin. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2000, 10, 751-753.	2.2	21
125	Surface-dependent fibrinopeptide A accessibility to thrombin. <i>Acta Biomaterialia</i> , 2007, 3, 663-668.	8.3	21
126	Quantitative Method for Determining the Lateral Strength of Bacterial Adhesion and Application for Characterizing Adhesion Kinetics. <i>Langmuir</i> , 2008, 24, 4700-4707.	3.5	21



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127	Competitive Formation of <i>N</i> -Diazoniumdiolates and <i>N</i> -Nitrosamines via Anaerobic Reactions of Polyamines with Nitric Oxide. <i>Organic Letters</i> , 2009, 11, 5462-5465.	4.6	21
128	<i>S</i> -Nitrosothiol Analysis via Photolysis and Amperometric Nitric Oxide Detection in a Microfluidic Device. <i>Analytical Chemistry</i> , 2015, 87, 3171-3176.	6.5	21
129	Long-Term Accurate Continuous Glucose Biosensors via Extended Nitric Oxide Release. <i>ACS Sensors</i> , 2019, 4, 3257-3264.	7.8	21
130	Poly(vinylpyrrolidone)-doped nitric oxide-releasing xerogels as glucose biosensor membranes. <i>Biosensors and Bioelectronics</i> , 2006, 22, 306-312.	10.1	20
131	Kinetics of the Multistep Rupture of Fibrin A <sup>TM</sup> Polymerization Interactions Measured Using Atomic Force Microscopy. <i>Biophysical Journal</i> , 2009, 97, 2820-2828.	0.5	20
132	Nitric Oxide-Releasing Xerogel-Based Fiber-Optic pH Sensors. <i>Analytical Chemistry</i> , 2006, 78, 7461-7466.	6.5	19
133	Visible Photolysis and Amperometric Detection of <i>S</i> -Nitrosothiols. <i>Analytical Chemistry</i> , 2012, 84, 851-856.	6.5	19
134	Nitric oxide flux-dependent bacterial adhesion and viability at fibrinogen-coated surfaces. <i>Biomaterials Science</i> , 2013, 1, 1151.	5.4	19
135	Dual action antimicrobial surfaces via combined nitric oxide and silver release. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 1974-1984.	4.0	19
136	Nitric Oxide-Releasing Hyaluronic Acid as an Antibacterial Agent for Wound Therapy. <i>Biomacromolecules</i> , 2021, 22, 867-879.	5.4	19
137	An Interactive Analytical Chemistry Summer Camp for Middle School Girls. <i>Journal of Chemical Education</i> , 2005, 82, 1486.	2.3	18
138	Selective and Sensocompatible Electrochemical Nitric Oxide Sensor with a Bilaminar Design. <i>ACS Sensors</i> , 2019, 4, 1766-1773.	7.8	18
139	Effect of Phosphorylated Chitosan on Dentin Erosion: An in vitro Study. <i>Caries Research</i> , 2018, 52, 378-386.	2.0	17
140	Mammalian target of rapamycin regulates a hyperresponsive state in pulmonary neutrophils late after burn injury. <i>Journal of Leukocyte Biology</i> , 2018, 103, 909-918.	3.3	17
141	Nitric Oxide-Releasing Xerogels Synthesized from <i>N</i> -Diazoniumdiolate-Modified Silane Precursors. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 4904-4912.	8.0	14
142	Anticancer potency of nitric oxide-releasing liposomes. <i>RSC Advances</i> , 2017, 7, 53236-53246.	3.6	14
143	Antibiofilm and mucolytic action of nitric oxide delivered via gas or macromolecular donor using in vitro and ex vivo models. <i>Journal of Cystic Fibrosis</i> , 2020, 19, 1004-1010.	0.7	14
144	Direct detection of blood nitric oxide reveals a burn-dependent decrease of nitric oxide in response to <i>Pseudomonas aeruginosa</i> infection. <i>Burns</i> , 2016, 42, 1522-1527.	1.9	13

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145	Nitric Oxide-Releasing Alginates as Mucoytic Agents. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 3409-3418.	5.2	13
146	Theranostic Activity of Nitric Oxide-Releasing Carbon Quantum Dots. <i>Bioconjugate Chemistry</i> , 2021, 32, 367-375.	3.6	13
147	Nitric oxide-releasing silica nanoparticles with varied surface hydrophobicity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 454, 144-151.	4.7	12
148	Planar nitric oxide (NO)-selective ultramicroelectrode sensor for measuring localized NO surface concentrations at xerogel microarrays. <i>Analyst</i> , 2006, 131, 48-54.	3.5	11
149	Influence of Glutathione and its Derivatives on Fibrin Polymerization. <i>Biomacromolecules</i> , 2008, 9, 1876-1882.	5.4	11
150	Selective monophosphorylation of chitosan via phosphorus oxychloride. <i>Polymer Chemistry</i> , 2017, 8, 2552-2558.	3.9	11
151	Antibacterial action of nitric oxide-releasing hyperbranched polymers against ex vivo dental biofilms. <i>Dental Materials</i> , 2020, 36, 635-644.	3.5	11
152	Nitric Oxide-Releasing Xerogel Microarrays Prepared with Surface-Tailored Poly(dimethylsiloxane) Templates. <i>Chemistry of Materials</i> , 2005, 17, 3288-3296.	6.7	10
153	Calcium Dependence of Fibrin Nanomechanics: The $\text{Ca}^{2+}$ Mediates the Unfolding of Fibrinogen Induced by Force Applied to the $\text{Ca}^{2+}$ -Bond. <i>Langmuir</i> , 2010, 26, 14716-14722.	3.5	10
154	S-Nitrosothiol-modified hyperbranched polyesters. <i>Polymer Chemistry</i> , 2016, 7, 7161-7169.	3.9	10
155	Role of Nitric Oxide-Releasing Glycosaminoglycans in Wound Healing. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 2537-2552.	5.2	9
156	In situ electrochemistry of $\text{Ru}(\text{NH}_3)_6^{3+}$ in a perfused rat heart. <i>Electroanalysis</i> , 1997, 9, 135-140.	2.9	8
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