Michael J Mcshane

List of Publications by Year
in descending order

166 papers	4,744 citations	94381 37 h-index	110317 64 g-index
169 all docs	169 docs citations	169 times ranked	4586 citing authors

#	Article	IF	Citations
1	A Fluorescence-Based Glucose Biosensor Using Concanavalin A and Dextran Encapsulated in a Poly(ethylene glycol) Hydrogel. Analytical Chemistry, 1999, 71, 3126-3132.	3.2	343
2	Theoretical Justification of Wavelength Selection in PLS Calibration:Â Development of a New Algorithm. Analytical Chemistry, 1998, 70, 35-44.	3.2	247
3	Inorganic Nanoarchitectonics for Biological Applications. Chemistry of Materials, 2012, 24, 728-737.	3.2	206
4	Combined Physical and Chemical Immobilization of Glucose Oxidase in Alginate Microspheres Improves Stability of Encapsulation and Activity. Bioconjugate Chemistry, 2005, 16, 1451-1458.	1.8	141
5	Magnetic Bio/Nanoreactor with Multilayer Shells of Glucose Oxidase and Inorganic Nanoparticles. Langmuir, 2002, 18, 6338-6344.	1.6	131
6	Sources of Inaccuracy in Photoplethysmography for Continuous Cardiovascular Monitoring. Biosensors, 2021, 11, 126.	2.3	128
7	Encapsulation of glucose oxidase and an oxygen-quenched fluorophore in polyelectrolyte-coated calcium alginate microspheres as optical glucose sensor systems. Biosensors and Bioelectronics, 2005, 21, 212-216.	5.3	115
8	Macromolecule Encapsulation in Diazoresin-Based Hollow Polyelectrolyte Microcapsules. Langmuir, 2005, 21, 424-430.	1.6	109
9	Layer-by-layer assembly for drug delivery and related applications. Expert Opinion on Drug Delivery, 2011, 8, 633-644.	2.4	107
10	Spontaneous Loading of Positively Charged Macromolecules into Alginate-Templated Polyelectrolyte Multilayer Microcapsules. Biomacromolecules, 2005, 6, 2221-2228.	2.6	100
11	Real-Time Assessment of Spatial and Temporal Coupled Catalysis within Polyelectrolyte Microcapsules Containing Coimmobilized Glucose Oxidase and Peroxidase. Biomacromolecules, 2006, 7, 710-719.	2.6	99
12	Synthesis of Size-Controlled Monodisperse Manganese Carbonate Microparticles as Templates for Uniform Polyelectrolyte Microcapsule Formation. Chemistry of Materials, 2005, 17, 2323-2328.	3.2	95
13	Microcapsule Biosensors Using Competitive Binding Resonance Energy Transfer Assays Based on Apoenzymes. Analytical Chemistry, 2005, 77, 5501-5511.	3.2	94
14	Stable Encapsulation of Active Enzyme by Application of Multilayer Nanofilm Coatings to Alginate Microspheres. Macromolecular Bioscience, 2005, 5, 717-727.	2.1	84
15	Potential for Glucose Monitoring with Nanoengineered Fluorescent Biosensors. Diabetes Technology and Therapeutics, 2002, 4, 533-538.	2.4	79
16	Loading of Hydrophobic Materials into Polymer Particles:Â Implications for Fluorescent Nanosensors and Drug Delivery. Journal of the American Chemical Society, 2005, 127, 13448-13449.	6.6	79
17	Microscale Enzymatic Optical Biosensors Using Mass Transport Limiting Nanofilms. 1. Fabrication and Characterization Using Glucose as a Model Analyte. Analytical Chemistry, 2007, 79, 1339-1348.	3.2	76
18	Near-Infrared Spectroscopy for Determination of Glucose, Lactate, and Ammonia in Cell Culture Media. Applied Spectroscopy, 1998, 52, 1073-1078.	1.2	74

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19	Study of the near-neutral pH-sensitivity of chitosan/gelatin hydrogels by turbidimetry and microcantilever deflection. Biotechnology and Bioengineering, 2006, 95, 333-341.	1.7	71
20	Microcapsules Ejecting Nanosized Species into the Environment. Journal of the American Chemical Society, 2008, 130, 14480-14482.	6.6	71
21	Micropatterning of Nanoengineered Surfaces to Study Neuronal Cell Attachment in Vitro. Biomacromolecules, 2004, 5, 1745-1755.	2.6	67
22	Glucose-Sensitive Nanoassemblies Comprising Affinity-Binding Complexes Trapped in Fuzzy Microshells. Journal of Fluorescence, 2004, 14, 585-595.	1.3	62
23	Modeling of spherical fluorescent glucose microsensor systems: Design of enzymatic smart tattoos. Biosensors and Bioelectronics, 2006, 21, 1760-1769.	5.3	60
24	Polyelectrolyte Microshells as Carriers for Fluorescent Sensors: Loading and Sensing Properties of a Ruthenium-Based Oxygen Indicator. Journal of Nanoscience and Nanotechnology, 2002, 2, 411-416.	0.9	58
25	Sequential Thiolâ€“Ene and Tetrazine Click Reactions for the Polymerization and Functionalization of Hydrogel Microparticles. Biomacromolecules, 2016, 17, 3516-3523.	2.6	55
26	Stabilization of glucose oxidase in alginate microspheres with photoreactive diazoresin nanofilm coatings. Biotechnology and Bioengineering, 2005, 91, 124-131.	1.7	53
27	Monte Carlo modeling for implantable fluorescent analyte sensors. IEEE Transactions on Biomedical Engineering, 2000, 47, 624-632.	2.5	52
28	Development of multilayer fluorescent thin film chemical sensors using electrostatic self-assembly. IEEE Sensors Journal, 2003, 3, 139-146.	2.4	52
29	Glucose monitoring using implanted fluorescent microspheres. IEEE Engineering in Medicine and Biology Magazine, 2000, 19, 36-45.	1.1	51
30	A fiber-optic broad-range pH sensor system for gastric measurements. Sensors and Actuators B: Chemical, 1995, 29, 157-163.	4.0	50
31	Resonance Energy Transfer Nanobiosensors Based on Affinity Binding between Apo-Enzyme and Its Substrate. Biomacromolecules, 2004, 5, 1657-1661.	2.6	46
32	Poly (vinylsulfonic acid) assisted synthesis of aqueous solution stable vaterite calcium carbonate nanoparticles. Journal of Colloid and Interface Science, 2014, 418, 366-372.	5.0	46
33	Polyelectrolyte-coated alginate microspheres as drug delivery carriers for dexamethasone release. Drug Delivery, 2009, 16, 331-340.	2.5	45
34	Variable Selection in Multivariate Calibration of a Spectroscopic Glucose Sensor. Applied Spectroscopy, 1997, 51, 1559-1564.	1.2	44
35	Microscale Enzymatic Optical Biosensors Using Mass Transport Limiting Nanofilms. 2. Response Modulation by Varying Analyte Transport Properties. Analytical Chemistry, 2008, 80, 1408-1417.	3.2	39
36	In vitro and in vivo evaluation of anti-inflammatory agents using nanoengineered alginate carriers: Towards localized implant inflammation suppression. International Journal of Pharmaceutics, 2011, 403, 268-275.	2.6	39

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37	Microcapsules as optical biosensors. Journal of Materials Chemistry, 2010, 20, 8189.	6.7	38
38	Electrostatic self-assembly of a ruthenium-based oxygen sensitive dye using polyionâ€"dye interpolyelectrolyte formation. Sensors and Actuators B: Chemical, 2002, 87, 336-345.	4.0	37
39	Fabrication of Interdigitated Micropatterns of Self-Assembled Polymer Nanofilms Containing Cell-Adhesive Materials. Langmuir, 2006, 22, 2738-2746.	1.6	37
40	Time-resolved measurements of luminescence. Journal of Luminescence, 2013, 144, 180-190.	1.5	37
41	Mitigation of Quantum Dot Cytotoxicity by Microencapsulation. PLoS ONE, 2011, 6, e22079.	1.1	35
42	Assessment of Partial Least-Squares Calibration and Wavelength Selection for Complex Near-Infrared Spectra. Applied Spectroscopy, 1998, 52, 878-884.	1.2	34
43	Influence of channel width on alignment of smooth muscle cells by high-aspect-ratio microfabricated elastomeric cell culture scaffolds. Journal of Biomedical Materials Research - Part A, 2005, 75A, 106-114.	2.1	34
44	Microparticle ratiometric oxygen sensors utilizing near-infrared emitting quantum dots. Analyst, The, 2011, 136, 962-967.	1.7	34
45	Composite Hydrogels with Engineered Microdomains for Optical Glucose Sensing at Low Oxygen Conditions. Biosensors, 2017, 7, 8.	2.3	34
46	A novel peak-hopping stepwise feature selection method with application to Raman spectroscopy1This paper is dedicated to the memory of Jean Thomas Clerc: scientist, editor, luminary, and dog breeder.1. Analytica Chimica Acta, 1999, 388, 251-264.	2.6	33
47	Preclinical Evaluation of Poly(HEMA-co-acrylamide) Hydrogels Encapsulating Glucose Oxidase and Palladium Benzoporphyrin as Fully Implantable Glucose Sensors. Journal of Diabetes Science and Technology, 2015, 9, 985-992.	1.3	33
48	Composite Hydrogels Containing Bioactive Microreactors for Optical Enzymatic Lactate Sensing. ACS Sensors, 2017, 2, 1584-1588.	4.0	33
49	Application of self-assembled ultra-thin film coatings to stabilize macromolecule encapsulation in alginate microspheres. Journal of Microencapsulation, 2005, 22, 397-411.	1.2	32
50	â€œSmart Tattooâ€•Glucose Biosensors and Effect of Coencapsulated Anti-Inflammatory Agents. Journal of Diabetes Science and Technology, 2011, 5, 76-85.	1.3	32
51	Enzymatic Fluorescent Microsphere Glucose Sensors:Evaluation of Response Under Dynamic Conditions. Diabetes Technology and Therapeutics, 2006, 8, 288-295.	2.4	31
52	Glucose Sensors Based on Microcapsules Containing an Orange/Red Competitive Binding Resonance Energy Transfer Assay. Diabetes Technology and Therapeutics, 2006, 8, 269-278.	2.4	31
53	Enhancing the longevity of microparticle-based glucose sensors towards 1 month continuous operation. Biosensors and Bioelectronics, 2010, 25, 1075-1081.	5.3	31
54	Processing and Characterization of Stable, pH-Sensitive Layer-by-Layer Modified Colloidal Quantum Dots. ACS Nano, 2013, 7, 6194-6202.	7.3	31

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55	Gold Nanocluster Containing Polymeric Microcapsules for Intracellular Ratiometric Fluorescence Biosensing. ACS Omega, 2017, 2, 2499-2506.	1.6	31
56	Core-referenced ratiometric fluorescent potassium ion sensors using self-assembled ultrathin films on europium nanoparticles. IEEE Sensors Journal, 2005, 5, 1197-1205.	2.4	30
57	A design full of holes: functional nanofilm-coated microdomains in alginate hydrogels. Journal of Materials Chemistry B, 2013, 1, 3195.	2.9	28
58	Characterization of Lactate Sensors Based on Lactate Oxidase and Palladium Benzoporphyrin Immobilized in Hydrogels. Biosensors, 2015, 5, 398-416.	2.3	28
59	Comparison of Selective Attachment and Growth of Smooth Muscle Cells on Gelatin- and Fibronectin-Coated Micropatterns. Journal of Nanoscience and Nanotechnology, 2005, 5, 1809-1815.	0.9	26
60	Fabrication of Nanocapsule Carriers from Multilayer-Coated Vaterite Calcium Carbonate Nanoparticles. ACS Applied Materials & Interfaces, 2014, 6, 21193-21201.	4.0	26
61	Cellular Response to Gelatin- and Fibronectin-Coated Multilayer Polyelectrolyte Nanofilms. IEEE Transactions on Nanobioscience, 2005, 4, 170-179.	2.2	25
62	Nanoscale internally referenced oxygen sensors produced from self-assembled nanofilms on fluorescent nanoparticles. Journal of Biomedical Optics, 2005, 10, 064031.	1.4	25
63	Optofluidic phantom mimicking optical properties of porcine livers. Biomedical Optics Express, 2011, 2, 1877.	1.5	25
64	Glucose response of dissolved-core alginate microspheres: towards a continuous glucose biosensor. Analyst, The, 2010, 135, 2620.	1.7	24
65	Biofouling of Polymer Hydrogel Materials and its Effect on Diffusion and Enzyme-Based Luminescent Glucose Sensor Functional Characteristics. Journal of Diabetes Science and Technology, 2012, 6, 1267-1275.	1.3	24
66	Evaluation of glucose sensitive affinity binding assay entrapped in fluorescent dissolvedâ€core alginate microspheres. Biotechnology and Bioengineering, 2009, 104, 1075-1085.	1.7	23
67	Dual-Function Nanofilm Coatings with Diffusion Control and Protein Resistance. ACS Applied Materials & Interfaces, 2010, 2, 991-997.	4.0	21
68	Dynamic Windowing Algorithm for the Fast and Accurate Determination of Luminescence Lifetimes. Analytical Chemistry, 2012, 84, 4725-4731.	3.2	20
69	Glycosylation site-targeted PEGylation of glucose oxidase retains native enzymatic activity. Enzyme and Microbial Technology, 2013, 52, 279-285.	1.6	18
70	Improving Complex Near-IR Calibrations Using a New Wavelength Selection Algorithm. Applied Spectroscopy, 1999, 53, 1575-1581.	1.2	17
71	Synthesis and functionalization of monodisperse poly(ethylene glycol) hydrogel microspheres within polyelectrolyte multilayer microcapsules. Chemical Communications, 2006, , 153-155.	2.2	17
72	Transduction of Volume Change in pH-Sensitive Hydrogels with Resonance Energy Transfer. Advanced Materials, 2006, 18, 2289-2293.	11.1	17

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73	Fluorescence Glucose Monitoring Based on Transduction of Enzymatically-Driven pH Changes Within Microcapsules. Sensor Letters, 2006, 4, 433-439.	0.4	17
74	EMBS 2002 student paper finalists - Nanoengineered polyelectrolyte micro- and nano-capsules as fluorescent potassium ion sensors. IEEE Engineering in Medicine and Biology Magazine, 2003, 22, 118-123.	1.1	16
75	Multilayer lactate oxidase shells on colloidal carriers as engines for nanosensors. IEEE Transactions on Nanobioscience, 2003, 2, 133-137.	2.2	15
76	Multidomain-Based Responsive Materials with Dual-Mode Optical Readouts. ACS Applied Materials & Interfaces, 2019, 11, 14286-14295.	4.0	15
77	A Transparent Tool for Seemingly Difficult Calibrations:Â The Parallel Calibration Method. Analytical Chemistry, 2000, 72, 135-140.	3.2	14
78	Cross-linked nanofilms for tunable permeability control in a composite microdomain system. RSC Advances, 2016, 6, 71781-71790.	1.7	14
79	Encapsulation of Peroxidase by Polymerizing Acrylic Acid Monomers in "Clean" Polyelectrolyte Microcapsules. Journal of Biomedical Nanotechnology, 2007, 3, 170-177.	0.5	14
80	Near-Infrared Resonance Energy Transfer Glucose Biosensors in Hybrid Microcapsule Carriers. Journal of Sensors, 2008, 2008, 1-11.	0.6	13
81	Optimizing probe design for an implantable perfusion and oxygenation sensor. Biomedical Optics Express, 2011, 2, 2096.	1.5	13
82	Glucose Response of Near-Infrared Alginate-Based Microsphere Sensors Under Dynamic Reversible Conditions. Diabetes Technology and Therapeutics, 2011, 13, 827-835.	2.4	13
83	SERS-Active Smart Hydrogels With Modular Microdomains: From pH to Glucose Sensing. IEEE Sensors Journal, 2017, 17, 941-950.	2.4	13
84	Hydrogel Microdomain Encapsulation of Stable Functionalized Silver Nanoparticles for SERS pH and Urea Sensing. Sensors, 2019, 19, 3521.	2.1	12
85	An Optical Urate Biosensor Based on Urate Oxidase and Long-Lifetime Metalloporphyrins. Sensors, 2020, 20, 959.	2.1	12
86	Study of transport phenomena of FITC labeled dextran through nano self assembled microshells. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2004, 245, 137-142.	2.3	11
87	Microcapsules as â€œSmart Tattooâ€•Glucose Sensors: Engineering Systems with Enzymes and Glucose-Binding Sensing Elements. , 2006, , 131-163.		11
88	Role of porosity in tuning the response range of microsphere-based glucose sensors. Biosensors and Bioelectronics, 2011, 26, 2478-2483.	5.3	11
89	Layer-by-layer modification of high surface curvature nanoparticles with weak polyelectrolytes using a multiphase solvent precipitation process. Journal of Colloid and Interface Science, 2016, 466, 432-441.	5.0	11
90	<title>Progress toward implantable fluorescence-based sensors for monitoring glucose levels in interstitial fluid</title>. , 2000, , .		10

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91	Fabrication of 3-D Gelatin-Patterned Glass Substrates With Layer-by-Layer and Lift-Off (LbLâ€"LO) Technology. IEEE Nanotechnology Magazine, 2004, 3, 115-123.	1.1	10
92	Temperature Compensation of Oxygen Sensing Films Utilizing a Dynamic Dual Lifetime Calculation Technique. IEEE Sensors Journal, 2014, 14, 2755-2764.	2.4	10
93	Modification of PEGylated enzyme with glutaraldehyde can enhance stability while avoiding intermolecular crosslinking. RSC Advances, 2014, 4, 28036-28040.	1.7	9
94	<title>Nanoassembled fluorescent microshells as biochemical sensors</title>. , 2002, , .		8
95	A Monte Carlo simulation of photon propagation in fluorescent poly(ethylene glycol) hydrogel microsensors. Sensors and Actuators B: Chemical, 2005, 105, 365-377.	4.0	8
96	Experimental and Theoretical Aspects of Glucose Measurement Using a Microcantilever Modified by Enzyme-Containing Polyacrylamide. Diabetes Technology and Therapeutics, 2005, 7, 986-995.	2.4	8
97	Three-dimensional, multiwavelength Monte Carlo simulations of dermally implantable luminescent sensors. Journal of Biomedical Optics, 2010, 15, 027011.	1.4	8
98	Polymer/Colloid Surface Micromachining: Micropatterning of Hybrid Multilayers. Langmuir, 2008, 24, 13796-13803.	1.6	7
99	A Versatile Multichannel Instrument for Measurement of Ratiometric Fluorescence Intensity and Phosphorescence Lifetime. IEEE Access, 2021, 9, 103835-103849.	2.6	7
100	<title>Microfabricated interferometer and integrated fluidic channel for infrared spectroscopy of aqueous samples</title>. , 2002, , .		6
101	Enzyme Immobilization in Polyelectrolyte Microcapsules. Methods in Molecular Biology, 2011, 679, 147-154.	0.4	6
102	Inorganicâ€"Organic Interpenetrating Network Hydrogels as Tissueâ€Integrating Luminescent Implants: Physicochemical Characterization and Preclinical Evaluation. Macromolecular Bioscience, 2022, 22, e2100380.	2.1	6
103	A Glucose Biosensor Based on Phosphorescence Lifetime Sensing and a Thermoresponsive Membrane. Macromolecular Rapid Communications, 2022, 43, e2100902.	2.0	6
104	Skin optical properties in the obese and their relation to body mass index: a review. Journal of Biomedical Optics, 2022, 27, .	1.4	6
105	<title>Implantable biosensors: analysis of fluorescent light propagation through skin</title>. , 2001, , .		5
106	Optimizing source detector separation for an implantable perfusion and oxygenation sensor. , 2011, , .		5
107	Performance assessment of an opto-fluidic phantom mimicking porcine liver parenchyma. Journal of Biomedical Optics, 2012, 17, 0770081.	1.4	5
108	Optimizing probe design for an implantable perfusion and oxygenation sensor. Biomedical Optics Express, 2011, 2, 2096-109.	1.5	5

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109	<title>Nanostructured fluorescent particles for glucose sensing</title>. , 2002, 4624, 47.		4
110	Optical instrument design for interrogation of dermally-implanted luminescent microparticle sensors. , 2008, 2008, 5656-9.		4
111	Chondrocyte Behavior on Micropatterns Fabricated Using Layer-by-Layer Lift-Off: Morphological Analysis. Journal of Medical Engineering, 2013, 2013, 1-12.	1.1	4
112	Electrostatic Self-Assembly: Layer-by-Layer. , 0, , 1342-1358.		4
113	<title>Peak-hopping stepwise wavelength selection algorithm</title>. , 1999, , .		3
114	Cell adhesion testing using novel testbeds containing micropatterns of complex nanoengineered multilayer films. , 2004, 2004, 2671-4.		3
115	Self-assembly of polymer/nanoparticle films for fabrication of fiber optic sensors based on SPR. , 2004, , .		3
116	Glucose micro- and nanosensors based on nanoassembled enzyme/polymer/dye composites. Proceedings of SPIE, 2004, , .	0.8	3
117	Modeling of Selective Photon Capture for Collection of Fluorescence Emitted from Dermally-Implanted Microparticle Sensors. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 2972-5.	0.5	3
118	Experimental validation of an optical system for interrogation of dermally-implanted microparticle sensors. , 2009, 2009, 122-5.		3
119	<i>In vitro</i> performance of a perfusion and oxygenation optical sensor using a unique liver phantom. , 2012, , .		3
120	Process for Faculty-Driven, Data-Informed Curriculum Continuity Review in Biomedical Engineering. Biomedical Engineering Education, 2022, 2, 265-280.	0.6	3
121	Monte Carlo method for assessment of a multimodal insertable biosensor. Journal of Biomedical Optics, 2022, 27, .	1.4	3
122	Electrostatic self-assembly of nanocomposite hybrid fluorescent sensors. , 2004, , .		2
123	Transduction of pH and Glucose-Sensitive Hydrogel Swelling Through Fluorescence Resonance Energy Transfer. , 0, , .		2
124	Stability of response and in vivo potential of microparticle glucose sensors. Proceedings of SPIE, 2008, , .	0.8	2
125	High-efficiency optical systems for interrogation of dermally-implanted sensors. , 2010, 2010, 1033-6.		2
126	Growth and behaviour of bovine articular chondrocytes on nanoengineered surfaces: Part I. International Journal of Nanotechnology, 2011, 8, 679.	0.1	2

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127	Incorporation of optical enzymatic sensing chemistry into biocompatible hydrogels. , 2011, , .		2
128	Design of an Optical System for Interrogation of Implanted Luminescent Sensors and Verification with Silicone Skin Phantoms. IEEE Transactions on Biomedical Engineering, 2012, 59, 2459-2465.	2.5	2
129	Enzymatic glucose sensor compensation for variations in ambient oxygen concentration. , 2013, 8591, .		2
130	<title>Probe design for implantable fluorescence-based sensors</title>. , 1999, , .		2
131	<title>Variable selection for quantitative determination of glucose concentration with near-infrared spectroscopy</title>. , 1997, , .		1
132	<title>Effects of temperature on the near-infrared spectroscopic measurement of glucose</title>. , 1998, , .		1
133	Nanoassembly of immobilized ligninolytic enzymes for biocatalysis, bioremediation, and biosensing. , 2004, , .		1
134	Bulk micromachining of a MEMS tunable Fabry-Perot interferometer: effect of residual silicon on device performance. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2004, 3, 579.	1.0	1
135	Competitive Binding Assays in Microcapsules as "Smart Tattoo" Biosensors. , 0, , .		1
136	Nanofilm coatings for transport control and biocompatibility. , 2008, , .		1
137	MODELING MASS TRANSFER OF FITC-LABELED DEXTRAN FROM POLYELECTROLYTE MICROCAPSULES. Chemical Engineering Communications, 2009, 196, 812-823.	1.5	1
138	Supported Nanocomposite Membranes: Bridging Microtechnology with Nanotechnology. Journal of Nanoscience and Nanotechnology, 2009, 9, 2965-2969.	0.9	1
139	Dynamic testing and in vivo evaluation of dermally implantable luminescent microparticle glucose sensors. Proceedings of SPIE, 2010, , .	0.8	1
140	Simultaneous, accurate lifetime determination of two luminophores using time-domain techniques. , 2011, , .		1
141	In vitro evaluation of chondrosarcoma cells and canine chondrocytes on layer-by-layer (LbL) self-assembled multilayer nanofilms. Biofabrication, 2013, 5, 015004.	3.7	1
142	SERS-based hydrogel sensors for pH and enzymatic substrates. , 2015, , .		1
143	Albuminated Glycoenzymes: Enzyme Stabilization through Orthogonal Attachment of a Single-Layered Protein Shell around a Central Glycoenzyme Core. Bioconjugate Chemistry, 2016, 27, 1285-1292.	1.8	1
144	Hybrid Inorganic-Organic Interpenetrating Network Hydrogels as Optical Biosensors. , 2016, , .		1

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145	Comparison of SERS pH probe responses after microencapsulation within hydrogel matrices. Journal of Biomedical Optics, 2021, 26, .	1.4	1
146	Growth and behavior of chondrocytes on nanocomposite ultrathin films. FASEB Journal, 2006, 20, A25.	0.2	1
147	Evaluating hydrogels for implantable probes using SERS. , 2019, , .		1
148	Implantable Sensors. , 2022, , .		1
149	<title>Determination of cell culture medium components with overlapping near-IR absorbance peaks</title>. , 1998, , .		0
150	Integrated micro-/nanofabrication of cell culture scaffolds with selective cell adhesion and fluorescent indicators. , 2004, , .		0
151	Intrinsic optical signal imaging of a ratiometric fluorescence oxygen nanosensor. , 0, , .		0
152	Lithography Combined with Multilayer Nanoassembly: Versatile Approach to Fabricate Nanocomposite Micropatterns for Biointerfaces. , 0, , .		0
153	Assembly and testing of microparticle and microcapsule smart tattoo materials. , 2007, , .		0
154	Dissolved core alginate microspheres as “smart-tattoo” glucose sensors. , 2009, 2009, 4098-101.		0
155	Dual-probe luminescence lifetime measurements for the oxygen compensation in enzymatic biosensors. , 2009, , .		0
156	Nanofilms as universal coatings for biosensors. , 2009, , .		0
157	Tuning of luminescent sensor response and degradation through manipulation of nanofilm coating properties. , 2010, , .		0
158	High-throughput spectral system for interrogation of dermally-implanted luminescent sensors. , 2012, 2012, 2351-4.		0
159	BEHAVIOR OF ARTICULAR CHONDROCYTES ON NANOENGINEERED SURFACES. Nano LIFE, 2013, 03, 1342001.	0.6	0
160	IEEE Council Representatives Reports. IEEE Instrumentation and Measurement Magazine, 2016, 19, 51-58.	1.2	0
161	Guest Editorial Special Issue on Selected Papers From the IEEE Sensors Conference 2014. IEEE Sensors Journal, 2016, 16, 3348-3348.	2.4	0
162	Real-time continuous glucose sensing of implantable probes using SERS. , 2019, , .		0

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163	Assembly and Transport Properties of Nanoscale Biopolyelectrolyte Multilayers. Coatings, 2021, 11, 1024.	1.2	0
164	Encapsulated Probes. , 2009, , 1-21.		0
165	Nanoengineered capsules for selective SERS analysis of biological samples. , 2018, , .		0
166	A One Inch in Diameter Point-of-Care Reader Head for the Measurement of Different Bio-Analytes Concentrations. , 2022, , .		0