John D Brennan

List of Publications by Year in descending order

204 papers	9,528 citations	34493 54 h-index	54771 88 g-index
211 all docs	211 docs citations	211 times ranked	9063 citing authors

#	Article	IF	Citations
1	A Lateral Flow Test for Staphylococcus aureus in Nasal Mucus Using a New DNAzyme as the Recognition Element. Angewandte Chemie - International Edition, 2022, 61, e202112346.	7.2	24
2	A Universal DNA Aptamer that Recognizes Spike Proteins of Diverse SARSâ€CoVâ€2 Variants of Concern. Chemistry - A European Journal, 2022, 28, .	1.7	30
3	A Universal DNA Aptamer that Recognizes Spike Proteins of Diverse SARSâ€CoVâ€2 Variants of Concern. Chemistry - A European Journal, 2022, 28, e202200524.	1.7	9
4	Investigation of discordant SARS-CoV-2 RT-PCR results using minimally processed saliva. Scientific Reports, 2022, 12, 2806.	1.6	7
5	A Lateral Flow Test for Staphylococcus aureus in Nasal Mucus Using a New DNAzyme as the Recognition Element. Angewandte Chemie, 2022, 134, .	1.6	2
6	Aptamers for SARSâ€CoVâ€2: Isolation, Characterization, and Diagnostic and Therapeutic Developments. Analysis & Sensing, 2022, 2, .	1.1	17
7	Quantifying DNA damage on paper sensors via controlled template-independent DNA polymerization. Chemical Science, 2022, 13, 6496-6501.	3.7	2
8	Biosensing with DNAzymes. Chemical Society Reviews, 2021, 50, 8954-8994.	18.7	193
9	DNAzymes as key components of biosensing systems for the detection of biological targets. Biosensors and Bioelectronics, 2021, 177, 112972.	5.3	44
10	Diverse high-affinity DNA aptamers for wild-type and B.1.1.7 SARS-CoV-2 spike proteins from a pre-structured DNA library. Nucleic Acids Research, 2021, 49, 7267-7279.	6.5	77
11	Quantitative Point-of-Care Colorimetric Assay Modeling Using a Handheld Colorimeter. ACS Omega, 2021, 6, 22439-22446.	1.6	7
12	Highâ€Affinity Dimeric Aptamers Enable the Rapid Electrochemical Detection of Wildâ€Type and B.1.1.7 SARSâ€CoVâ€2 in Unprocessed Saliva. Angewandte Chemie, 2021, 133, 24468-24476.	1.6	21
13	Highâ€Affinity Dimeric Aptamers Enable the Rapid Electrochemical Detection of Wildâ€Type and B.1.1.7 SARSâ€CoVâ€2 in Unprocessed Saliva. Angewandte Chemie - International Edition, 2021, 60, 24266-24274.	7.2	101
14	Targetâ€Dependent Protection of DNA Aptamers against Nucleolytic Digestion Enables Signalâ€On Biosensing with Toeholdâ€Mediated Rolling Circle Amplification. Chemistry - A European Journal, 2021, 27, 14543-14549.	1.7	4
15	Functional Nucleic Acids for Pathogenic Bacteria Detection. Accounts of Chemical Research, 2021, 54, 3540-3549.	7.6	54
16	Targetâ€Mediated 5â€™â€Exonuclease Digestion of DNA Aptamers with RecJ to Modulate Rolling Circle Amplification for Biosensing. ChemBioChem, 2021, , .	1.3	3
17	Engineering Micrometerâ€Sized DNA Tracks for Highâ€Speed DNA Synthesis and Biosensing. Angewandte Chemie, 2020, 132, 23147-23151.	1.6	3
18	Engineering Micrometerâ€Sized DNA Tracks for Highâ€Speed DNA Synthesis and Biosensing. Angewandte Chemie - International Edition, 2020, 59, 22947-22951.	7.2	10

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19	RÃ¼cktitelbild: Engineering Micrometerâ€Sized DNA Tracks for Highâ€Speed DNA Synthesis and Biosensing (Angew. Chem. 51/2020). Angewandte Chemie, 2020, 132, 23548-23548.	1.6	0
20	Inâ€...Vitro Selection of a DNA Aptamer Targeting Degraded Protein Fragments for Biosensing. Angewandte Chemie, 2020, 132, 7780-7784.	1.6	6
21	Inâ€...Vitro Selection of a DNA Aptamer Targeting Degraded Protein Fragments for Biosensing. Angewandte Chemie - International Edition, 2020, 59, 7706-7710.	7.2	49
22	A Multiâ€component Allâ€DNA Biosensing System Controlled by a DNAzyme. Angewandte Chemie - International Edition, 2020, 59, 10401-10405.	7.2	45
23	A Multiâ€component Allâ€DNA Biosensing System Controlled by a DNAzyme. Angewandte Chemie, 2020, 132, 10487-10491.	1.6	2
24	Proteinâ€Mediated Suppression of Rolling Circle Amplification for Biosensing with an Aptamerâ€Containing DNA Primer. Chemistry - A European Journal, 2020, 26, 5085-5092.	1.7	27
25	A paper-based biosensor for visual detection of glucose-6-phosphate dehydrogenase from whole blood. Analyst, The, 2020, 145, 1817-1824.	1.7	13
26	In Vitro Selection of Circular DNA Aptamers for Biosensing Applications. Angewandte Chemie, 2019, 131, 8097-8101.	1.6	8
27	Printed Thin Films with Controlled Porosity as Lateral Flow Media. Industrial & Engineering Chemistry Research, 2019, 58, 21014-21021.	1.8	4
28	A DNAzymeâ€Based Colorimetric Paper Sensor for Helicobacter pylori. Angewandte Chemie, 2019, 131, 10012-10016.	1.6	29
29	A DNAzymeâ€Based Colorimetric Paper Sensor for Helicobacter pylori. Angewandte Chemie - International Edition, 2019, 58, 9907-9911.	7.2	115
30	In Vitro Selection of Circular DNA Aptamers for Biosensing Applications. Angewandte Chemie - International Edition, 2019, 58, 8013-8017.	7.2	69
31	Enzymatic Litmus Test for Selective Colorimetric Detection of Câ€“C Single Nucleotide Polymorphisms. Analytical Chemistry, 2019, 91, 4735-4740.	3.2	24
32	Deposited Nanoparticles Can Promote Air Clogging of Piezoelectric Inkjet Printhead Nozzles. Langmuir, 2019, 35, 5517-5524.	1.6	22
33	Investigation of RNA structure-switching aptamers in tunable solâ€“gel-derived materials. Journal of Sol-Gel Science and Technology, 2019, 89, 234-243.	1.1	2
34	A Paper Sensor Printed with Multifunctional Bio/Nano Materials. Angewandte Chemie - International Edition, 2018, 57, 4549-4553.	7.2	73
35	Frontispiece: DNAzyme Feedback Amplification: Relaying Molecular Recognition to Exponential DNA Amplification. Chemistry - A European Journal, 2018, 24, .	1.7	0
36	A Paper Sensor Printed with Multifunctional Bio/Nano Materials. Angewandte Chemie, 2018, 130, 4639-4643.	1.6	21

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37	Selection and characterization of DNA aptamers for detection of glutamate dehydrogenase from Clostridium difficile. Biochimie, 2018, 145, 151-157.	1.3	20
38	DNAzyme Feedback Amplification: Relaying Molecular Recognition to Exponential DNA Amplification. Chemistry - A European Journal, 2018, 24, 4473-4479.	1.7	21
39	Graphene-DNAzyme-based fluorescent biosensor for Escherichia coli detection. MRS Communications, 2018, 8, 687-694.	0.8	40
40	Selfâ€Assembled Functional DNA Superstructures as Highâ€Density and Versatile Recognition Elements for Printed Paper Sensors. Angewandte Chemie, 2018, 130, 12620-12623.	1.6	19
41	Selfâ€Assembled Functional DNA Superstructures as Highâ€Density and Versatile Recognition Elements for Printed Paper Sensors. Angewandte Chemie - International Edition, 2018, 57, 12440-12443.	7.2	58
42	Optimizing piezoelectric inkjet printing of silica sols for biosensor production. Journal of Sol-Gel Science and Technology, 2018, 87, 657-664.	1.1	13
43	RNA Protection is Effectively Achieved by Pullulan Film Formation. ChemBioChem, 2017, 18, 502-505.	1.3	22
44	Automating multi-step paper-based assays using integrated layering of reagents. Lab on A Chip, 2017, 17, 943-950.	3.1	20
45	Solâ€“Gelâ€Derived Biohybrid Materials Incorporating Longâ€Chain DNA Aptamers. Angewandte Chemie - International Edition, 2017, 56, 10686-10690.	7.2	18
46	A DNAzyme Feedback Amplification Strategy for Biosensing. Angewandte Chemie, 2017, 129, 6238-6242.	1.6	37
47	A DNAzyme Feedback Amplification Strategy for Biosensing. Angewandte Chemie - International Edition, 2017, 56, 6142-6146.	7.2	126
48	A Printed Multicomponent Paper Sensor for Bacterial Detection. Scientific Reports, 2017, 7, 12335.	1.6	82
49	Innentitelbild: Solâ€“Gelâ€Derived Biohybrid Materials Incorporating Longâ€Chain DNA Aptamers (Angew.) Tj ETQq1 1 0.784314 rgBT	1.6	0
50	Solâ€“Gelâ€Derived Biohybrid Materials Incorporating Longâ€Chain DNA Aptamers. Angewandte Chemie, 2017, 129, 10826-10830.	1.6	2
51	Targetâ€Induced and Equipmentâ€Free DNA Amplification with a Simple Paper Device. Angewandte Chemie, 2016, 128, 2759-2763.	1.6	38
52	Programming a topologically constrained DNA nanostructure into a sensor. Nature Communications, 2016, 7, 12074.	5.8	67
53	Development of a functional point-of-need diagnostic for myeloperoxidase detection to identify neutrophilic bronchitis. Analyst, The, 2016, 141, 6438-6443.	1.7	10
54	Targetâ€Induced and Equipmentâ€Free DNA Amplification with a Simple Paper Device. Angewandte Chemie - International Edition, 2016, 55, 2709-2713.	7.2	113

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55	Simple and ultrastable all-inclusive pullulan tablets for challenging bioassays. Chemical Science, 2016, 7, 2342-2346.	3.7	36
56	Biosensing by Tandem Reactions of Structure Switching, Nucleolytic Digestion, and DNA Amplification of a DNA Assembly. Angewandte Chemie - International Edition, 2015, 54, 9637-9641.	7.2	63
57	Tools for water quality monitoring and mapping using paper-based sensors and cell phones. Water Research, 2015, 70, 360-369.	5.3	176
58	Design Rules for Fluorocarbon-Free Omniphobic Solvent Barriers in Paper-Based Devices. ACS Applied Materials & Interfaces, 2015, 7, 25434-25440.	4.0	9
59	Patterned Paper Sensors Printed with Longâ€Chain DNA Aptamers. Chemistry - A European Journal, 2015, 21, 7369-7373.	1.7	66
60	Integrating graphene oxide, functional DNA and nucleic-acid-manipulating strategies for amplified biosensing. TrAC - Trends in Analytical Chemistry, 2015, 74, 120-129.	5.8	33
61	Printed Paper Sensors for Serum Lactate Dehydrogenase using Pullulan-Based Inks to Immobilize Reagents. Analytical Chemistry, 2015, 87, 9288-9293.	3.2	66
62	Tailoring the properties of sub-3 Î¼m silica coreâ€“shell particles prepared by a multilayer-by-multilayer process. Journal of Colloid and Interface Science, 2015, 437, 50-57.	5.0	14
63	Evaluation of the Calmodulinâ€SOX9 Interaction by â€œMagnetic Fishingâ€•Coupled to Mass Spectrometry. ChemBioChem, 2014, 15, 2411-2419.	1.3	1
64	Simultaneous Inhibition Assay for Human and Microbial Kinases via MALDIâ€MS/MS. ChemBioChem, 2014, 15, 587-594.	1.3	5
65	Pullulan Encapsulation of Labile Biomolecules to Give Stable Bioassay Tablets. Angewandte Chemie - International Edition, 2014, 53, 6155-6158.	7.2	75
66	Hydrophobic solâ€“gel channel patterning strategies for paper-based microfluidics. Lab on A Chip, 2014, 14, 691-695.	3.1	137
67	Paper-based microfluidics with an erodible polymeric bridge giving controlled release and timed flow shutoff. Lab on A Chip, 2014, 14, 229-236.	3.1	89
68	Stoichiometrically controlled production of bimetallic Gold-Silver alloy colloids using micro-alga cultures. Journal of Colloid and Interface Science, 2014, 416, 67-72.	5.0	55
69	Delineation of key XRCC4/Ligase IV interfaces for targeted disruption of non-homologous end joining DNA repair. Proteins: Structure, Function and Bioinformatics, 2014, 82, 187-194.	1.5	7
70	An inkjet-printed bioactive paper sensor that reports ATP through odour generation. Analyst, The, 2014, 139, 4775.	1.7	10
71	Printing silicone-based hydrophobic barriers on paper for microfluidic assays using low-cost ink jet printers. Analyst, The, 2014, 139, 6361-6365.	1.7	54
72	An automated materials screening approach for the development of solâ€“gel derived monolithic silica enzyme reactor columns. RSC Advances, 2014, 4, 15952.	1.7	8

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73	Bio-Solid-Phase Extraction/Tandem Mass Spectrometry for Identification of Bioactive Compounds in Mixtures. Analytical Chemistry, 2014, 86, 8457-8465.	3.2	10
74	A rapid and sensitive fluorimetric Î²-galactosidase assay for coliform detection using chlorophenol red-Î²-d-galactopyranoside. Analytical and Bioanalytical Chemistry, 2014, 406, 5395-5403.	1.9	24
75	Poly(oligoethylene glycol methacrylate) Dip-Coating: Turning Cellulose Paper into a Protein-Repellent Platform for Biosensors. Journal of the American Chemical Society, 2014, 136, 12852-12855.	6.6	42
76	Solid-Phase Biological Assays for Drug Discovery. Annual Review of Analytical Chemistry, 2014, 7, 337-359.	2.8	16
77	Fluorescence Analysis of the Properties of Structure-Switching DNA Aptamers Entrapped in Solâ€“Gel-Derived Silica Materials. Chemistry of Materials, 2014, 26, 1896-1904.	3.2	14
78	A Graphene-Based Biosensing Platform Based on the Release of DNA Probes and Rolling Circle Amplification. ACS Nano, 2014, 8, 5564-5573.	7.3	139
79	Morphology and Entrapped Enzyme Performance in Inkjet-Printed Solâ€“Gel Coatings on Paper. Chemistry of Materials, 2014, 26, 1941-1947.	3.2	33
80	Functional nucleic acid entrapment in solâ€“gel derived materials. Methods, 2013, 63, 255-265.	1.9	6
81	A matrix-assisted laser desorption/ionization tandem mass spectrometry method for direct screening of small molecule mixtures against an aminoglycoside kinase. Analytica Chimica Acta, 2013, 786, 103-110.	2.6	9
82	Bioactive paper: Biomolecule immobilization methods and applications in environmental monitoring. MRS Bulletin, 2013, 38, 331-334.	1.7	27
83	Entrapment of Living Bacterial Cells in Low-Concentration Silica Materials Preserves Cell Division and Promoter Regulation. Chemistry of Materials, 2013, 25, 4798-4805.	3.2	23
84	Solâ€“Gel-Derived Materials for Production of Pin-Printed Reporter Gene Living-Cell Microarrays. Analytical Chemistry, 2013, 85, 12108-12117.	3.2	12
85	Flexographic printability of sol-gel precursor dispersions for bioactive paper. Nordic Pulp and Paper Research Journal, 2013, 28, 450-457.	0.3	5
86	One-pot synthesis of silica coreâ€“shell particles with double shells and different pore orientations from their nonporous counterparts. Journal of Materials Chemistry, 2012, 22, 13197.	6.7	30
87	Effects of Temperature and Relative Humidity on the Stability of Paper-Immobilized Antibodies. Biomacromolecules, 2012, 13, 559-564.	2.6	47
88	Stabilizing Structure-Switching Signaling RNA Aptamers by Entrapment in Solâ€“Gel Derived Materials for Solid-Phase Assays. Journal of the American Chemical Society, 2012, 134, 10998-11005.	6.6	47
89	Creating fast flow channels in paper fluidic devices to control timing of sequential reactions. Lab on A Chip, 2012, 12, 5079.	3.1	118
90	Tailoring Solâ€“Gel-Derived Silica Materials for Optical Biosensing. Chemistry of Materials, 2012, 24, 796-811.	3.2	114

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91	Multiplexed paper test strip for quantitative bacterial detection. Analytical and Bioanalytical Chemistry, 2012, 403, 1567-1576.	1.9	194
92	Materials Screening for Solâ€“Gel-Derived High-Density Multi-Kinase Microarrays. Chemistry of Materials, 2011, 23, 3685-3691.	3.2	13
93	Surface Immobilization of Structure-Switching DNA Aptamers on Macroporous Solâ^'Gel-Derived Films for Solid-Phase Biosensing Applications. Analytical Chemistry, 2011, 83, 957-965.	3.2	40
94	Enhancing Sensitivity and Selectivity of Long-Period Grating Sensors using Structure-Switching Aptamers Bound to Gold-Doped Macroporous Silica Coatings. Analytical Chemistry, 2011, 83, 7984-7991.	3.2	27
95	Î²-Galactosidase-Based Colorimetric Paper Sensor for Determination of Heavy Metals. Analytical Chemistry, 2011, 83, 8772-8778.	3.2	272
96	Continuous Flow Immobilized Enzyme Reactorâ€“Tandem Mass Spectrometry for Screening of AChE Inhibitors in Complex Mixtures. Analytical Chemistry, 2011, 83, 5230-5236.	3.2	38
97	Structureâ€“activity studies on acetylcholinesterase inhibition in the lycorine series of Amaryllidaceae alkaloids. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 5290-5294.	1.0	55
98	Magnetic â€œFishingâ€•Assay To Screen Small-Molecule Mixtures for Modulators of Proteinâ^'Protein Interactions. Analytical Chemistry, 2010, 82, 9850-9857.	3.2	25
99	A Solâ^'Gel-Derived Acetylcholinesterase Microarray for Nanovolume Small-Molecule Screening. Analytical Chemistry, 2010, 82, 9365-9373.	3.2	33
100	Bioactive paper dipstick sensors for acetylcholinesterase inhibitors based on solâ€“gel/enzyme/gold nanoparticle composites. Analyst, The, 2010, 135, 2028.	1.7	101
101	Probing the dynamics of domain III of human serum albumin entrapped in solâ€“gel derived silica using a Sudlowâ€™s site II specific fluorescent ligand. Journal of Sol-Gel Science and Technology, 2009, 50, 184-193.	1.1	6
102	Reagentless Bidirectional Lateral Flow Bioactive Paper Sensors for Detection of Pesticides in Beverage and Food Samples. Analytical Chemistry, 2009, 81, 9055-9064.	3.2	285
103	Functionalized Carborane Complexes of the [M(CO)₂(NO)]²⁺ Core (M =) Tj ETQq1 1 0.784314 rgBT /Overlo Vivo</i> Imaging. Organometallics, 2009, 28, 2986-2992.	1.1	32
104	Development of a Bioactive Paper Sensor for Detection of Neurotoxins Using Piezoelectric Inkjet Printing of Solâ^'Gel-Derived Bioinks. Analytical Chemistry, 2009, 81, 5474-5483.	3.2	247
105	Macroporous silica using a â€œstickyâ€•StÃ¶ber process. Journal of Materials Chemistry, 2009, 19, 1583.	6.7	19
106	An ESIâ€MS/MS Method for Screening of Smallâ€Molecule Mixtures against Glycogen Synthase Kinaseâ€3Î² (GSKâ€3Î²). ChemBioChem, 2008, 9, 1065-1073.	1.3	13
107	Water-in-Silicone Oil Emulsion Stabilizing Surfactants Formed From Native Albumin and Î±,Ï‰-Triethoxysilylpropyl-Polydimethylsiloxane. Biomacromolecules, 2008, 9, 2153-2161.	2.6	21
108	Solid-phase assays for small molecule screening using sol-gel entrapped proteinsThis paper is one of a selection of papers published in this Special Issue, entitled CSBMCB â€" Systems and Chemical Biology, and has undergone the Journal's usual peer review process.. Biochemistry and Cell Biology, 2008, 86, 100-110.	0.9	17

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109	Assaying Small-Moleculeâ^'Receptor Interactions by Continuous Flow Competitive Displacement Chromatography/Mass Spectrometry. Analytical Chemistry, 2008, 80, 3213-3220.	3.2	19
110	Quantification of Cell Proliferation and Alpha-Toxin Gene Expression ofClostridium perfringensin the Development of Necrotic Enteritis in Broiler Chickens. Applied and Environmental Microbiology, 2007, 73, 7110-7113.	1.4	46
111	Towards the development of a covalently tethered MALDI system â€" A study of allyl-modified MALDI matrixes. Canadian Journal of Chemistry, 2007, 85, 66-76.	0.6	11
112	Entrapment of Fluorescence Signaling DNA Enzymes in Solâ^'Gel-Derived Materials for Metal Ion Sensing. Analytical Chemistry, 2007, 79, 3494-3503.	3.2	60
113	Non-destructive horseradish peroxidase immobilization in porous silica nanoparticles. Journal of Materials Chemistry, 2007, 17, 4854.	6.7	31
114	Effect of Ormosil and Polymer Doping on the Morphology of Separately and Co-hydrolyzed Silica Films Formed by a Two-Step Aqueous Processing Method. Chemistry of Materials, 2007, 19, 5336-5346.	3.2	12
115	Biofriendly Solâ€"Gel Processing for the Entrapment of Soluble and Membrane-Bound Proteins: Toward Novel Solid-Phase Assays for High-Throughput Screening. Accounts of Chemical Research, 2007, 40, 827-835.	7.6	69
116	Entrapment of horseradish peroxidase in sugar-modified silica monoliths: Toward the development of a biocatalytic sensor. Biosensors and Bioelectronics, 2007, 22, 1861-1867.	5.3	38
117	Sensitization of Lanthanides by Nonnatural Amino AcidsÂ¶. Photochemistry and Photobiology, 2007, 75, 117-121.	1.3	0
118	Development of Macroporous Titania Monoliths Using a Biocompatible Method. Part 1:Â Material Fabrication and Characterization. Chemistry of Materials, 2006, 18, 5326-5335.	3.2	53
119	Two-Site Ionic Labeling with Pyranine:Â Implications for Structural Dynamics Studies of Polymers and Polypeptides by Time-Resolved Fluorescence Anisotropy. Journal of the American Chemical Society, 2006, 128, 5496-5505.	6.6	13
120	Quantifying Surface Coverage of Colloidal Silica by a Cationic Peptide Using a Combined Centrifugation/Time-Resolved Fluorescence Anisotropy Approach. Langmuir, 2006, 22, 1852-1857.	1.6	6
121	Monitoring the Distribution of Covalently Tethered Sugar Moieties in Solâ^'Gel-Based Silica Monoliths with Fluorescence Anisotropy:Â Implications for Entrapped Enzyme Activity. Chemistry of Materials, 2006, 18, 887-896.	3.2	12
122	Controlling the Morphology of Methylsilsesquioxane Monoliths Using a Two-Step Processing Method. Chemistry of Materials, 2006, 18, 541-546.	3.2	35
123	Development of Macroporous Titania Monoliths by a Biocompatible Method. Part 2:Â Enzyme Entrapment Studies. Chemistry of Materials, 2006, 18, 5336-5342.	3.2	22
124	Macroporous Monolithic Methylsilsesquioxanes Prepared by a Two-Step Acid/Acid Processing Method. Chemistry of Materials, 2006, 18, 4176-4182.	3.2	44
125	Quenching of Fluorophore-Labeled DNA Oligonucleotides by Divalent Metal Ions:Â Implications for Selection, Design, and Applications of Signaling Aptamers and Signaling Deoxyribozymes. Journal of the American Chemical Society, 2006, 128, 780-790.	6.6	86
126	Monolithic membrane-receptor columns: Optimization of column performance for frontal affinity chromatography/mass spectrometry applications. Analytica Chimica Acta, 2006, 561, 107-118.	2.6	32

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127	Immobilized enzyme reactor chromatography: Optimization of protein retention and enzyme activity in monolithic silica stationary phases. Analytica Chimica Acta, 2006, 564, 106-115.	2.6	48
128	Entrapment of membrane proteins in sol-gel derived silica. Journal of Sol-Gel Science and Technology, 2006, 40, 209-225.	1.1	52
129	Catalysis and Rational Engineering of trans-Acting pH6DZ1, an RNA-Cleaving and Fluorescence-Signaling Deoxyribozyme with a Four-Way Junction Structure. ChemBioChem, 2006, 7, 1343-1348.	1.3	49
130	Solid-Phase Enzyme Activity Assay Utilizing an Entrapped Fluorescence-Signaling DNA Aptamer. Angewandte Chemie - International Edition, 2006, 45, 3295-3299.	7.2	64
131	Macroporous Silica Monoliths Derived from Glyceroxysilanes: Controlling Gel Formation and Pore Structure. Macromolecular Symposia, 2005, 226, 253-262.	0.4	5
132	Interferences in Fluo-3 based ion-flux assays for ligand-gated-ion channels. Analytica Chimica Acta, 2005, 537, 125-134.	2.6	2
133	Using light to drive biosynthesis. Nature Materials, 2005, 4, 189-190.	13.3	8
134	A New Route to Monolithic Methylsilsesquioxanes:Â Gelation Behavior of Methyltrimethoxysilane and Morphology of Resulting Methylsilsesquioxanes under One-Step and Two-Step Processing. Chemistry of Materials, 2005, 17, 2807-2816.	3.2	108
135	Reduced shrinkage of solâ€“gel derived silicas using sugar-based silsesquioxane precursors. Journal of Materials Chemistry, 2005, 15, 3132.	6.7	30
136	Nanovolume Kinase Inhibition Assay Using a Solâˆ’Gel-Derived Multicomponent Microarray. Analytical Chemistry, 2005, 77, 8013-8019.	3.2	25
137	Shrinkage and Springback Behavior of Methylsilsesquioxanes Prepared by an Acid/Base Two-Step Processing Procedure. Chemistry of Materials, 2005, 17, 6012-6017.	3.2	17
138	Inhibitor Screening Using Immobilized Enzyme Reactor Chromatography/Mass Spectrometry. Analytical Chemistry, 2005, 77, 7512-7519.	3.2	57
139	Properties of Human Serum Albumin Entrapped in Solâˆ’Gel-Derived Silica Bearing Covalently Tethered Sugars. Chemistry of Materials, 2005, 17, 1174-1182.	3.2	47
140	Direct and Indirect Monitoring of Peptideâˆ’Silica Interactions Using Time-Resolved Fluorescence Anisotropy. Langmuir, 2005, 21, 4996-5001.	1.6	16
141	Capillary-Scale Monolithic Immunoaffinity Columns for Immunoextraction with In-Line Laser-Induced Fluorescence Detection. Analytical Chemistry, 2005, 77, 4404-4412.	3.2	42
142	Evidence for Rigid Binding of Rhodamine 6G to Silica Surfaces in Aqueous Solution Based on Fluorescence Anisotropy Decay Analysis. Journal of Physical Chemistry B, 2005, 109, 7850-7858.	1.2	22
143	Entrapment of Fluorescent Signaling DNA Aptamers in Solâˆ’Gel-Derived Silica. Analytical Chemistry, 2005, 77, 4300-4307.	3.2	81
144	Capillary-Scale Frontal Affinity Chromatography/MALDI Tandem Mass Spectrometry Using Protein-Doped Monolithic Silica Columns. Analytical Chemistry, 2005, 77, 3340-3350.	3.2	53

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145	Proteins Entrapped in Silica Monoliths Prepared from Glyceroxysilanes. Journal of Sol-Gel Science and Technology, 2004, 31, 343-348.	1.1	52
146	Time-Resolved Fluorescence Anisotropy in Assessing Side-Chain and Segmental Motions in Polyamines Entrapped in Solâ^'Gel Derived Silica. Journal of Physical Chemistry B, 2004, 108, 10692-10699.	1.2	13
147	Protein-Doped Monolithic Silica Columns for Capillary Liquid Chromatography Prepared by the Solâ^'Gel Method:Â Applications to Frontal Affinity Chromatography. Analytical Chemistry, 2004, 76, 2780-2790.	3.2	93
148	Sugar-modified silanes: precursors for silica monoliths. Journal of Materials Chemistry, 2004, 14, 1469-1479.	6.7	122
149	Entrapment of Highly Active Membrane-Bound Receptors in Macroporous Solâ^'Gel Derived Silica. Analytical Chemistry, 2004, 76, 6470-6475.	3.2	52
150	Evaluating Formation and Growth Mechanisms of Silica Particles Using Fluorescence Anisotropy Decay Analysis. Langmuir, 2004, 20, 5924-5932.	1.6	31
151	Bridging the Gap between in Vitro and in Vivo Imaging:Â Isostructural Re and99mTc Complexes for Correlating Fluorescence and Radioimaging Studies. Journal of the American Chemical Society, 2004, 126, 8598-8599.	6.6	200
152	Fluorescence Anisotropy in Studies of Solute Interactions with Covalently Modified Colloidal Silica Nanoparticles. Langmuir, 2004, 20, 848-854.	1.6	33
153	Monitoring Solute Interactions with Poly(ethylene oxide)-Modified Colloidal Silica Nanoparticles via Fluorescence Anisotropy Decay. Langmuir, 2004, 20, 101-108.	1.6	25
154	Ultrasensitive ATP Detection Using Firefly Luciferase Entrapped in Sugar-Modified Solâ^'Gel-Derived Silica. Journal of the American Chemical Society, 2004, 126, 6878-6879.	6.6	99
155	Entrapment of Src Protein Tyrosine Kinase in Sugar-Modified Silica. Analytical Chemistry, 2004, 76, 4182-4188.	3.2	51
156	Coupled enzyme reaction microarrays based on pin-printing of solâ€“gel derived biomaterials. Analytica Chimica Acta, 2003, 500, 3-12.	2.6	31
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