

Annelise E Barron

List of Publications by Year in descending order

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papers

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41323

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all docs

155
docs citations

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times ranked

8034
citing authors

#	ARTICLE	IF	CITATIONS
1	Peptoids that mimic the structure, function, and mechanism of helical antimicrobial peptides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 2794-2799.	3.3	558
2	New Peptidomimetic Polymers for Antifouling Surfaces. <i>Journal of the American Chemical Society</i> , 2005, 127, 7972-7973.	6.6	402
3	Helical Peptoid Mimics of Magainin-2 Amide. <i>Journal of the American Chemical Society</i> , 2003, 125, 12092-12093.	6.6	342
4	Landscape of Next-Generation Sequencing Technologies. <i>Analytical Chemistry</i> , 2011, 83, 4327-4341.	3.2	314
5	Structural and Spectroscopic Studies of Peptoid Oligomers with $\hat{\pm}$ -Chiral Aliphatic Side Chains. <i>Journal of the American Chemical Society</i> , 2003, 125, 13525-13530.	6.6	279
6	Microchannel wall coatings for protein separations by capillary and chip electrophoresis. <i>Electrophoresis</i> , 2003, 24, 34-54.	1.3	264
7	Mimicry of bioactive peptides via non-natural, sequence-specific peptidomimetic oligomers. <i>Current Opinion in Chemical Biology</i> , 2002, 6, 872-877.	2.8	246
8	Peptoid Oligomers with $\hat{\pm}$ -Chiral, Aromatic Side Chains: Sequence Requirements for the Formation of Stable Peptoid Helices. <i>Journal of the American Chemical Society</i> , 2001, 123, 6778-6784.	6.6	229
9	Capillary electrophoresis of DNA in uncross-linked polymer solutions. <i>Journal of Chromatography A</i> , 1993, 652, 3-16.	1.8	220
10	A transient entanglement coupling mechanism for DNA separation by capillary electrophoresis in ultradilute polymer solutions. <i>Electrophoresis</i> , 1994, 15, 597-615.	1.3	212
11	Peptoid Oligomers with $\hat{\pm}$ -Chiral, Aromatic Side Chains: Effects of Chain Length on Secondary Structure. <i>Journal of the American Chemical Society</i> , 2001, 123, 2958-2963.	6.6	189
12	Enhanced function of pancreatic islets co-encapsulated with ECM proteins and mesenchymal stromal cells in a silk hydrogel. <i>Biomaterials</i> , 2012, 33, 6691-6697.	5.7	154
13	DNA Sequencing up to 1300 Bases in Two Hours by Capillary Electrophoresis with Mixed Replaceable Linear Polyacrylamide Solutions. <i>Analytical Chemistry</i> , 2000, 72, 1045-1052.	3.2	144
14	Extreme stability of helices formed by water-soluble poly-N-substituted glycines (polypeptoids) with $\hat{\pm}$ -chiral side chains. <i>Biopolymers</i> , 2002, 63, 12-20.	1.2	144
15	Soft X-ray tomography of phenotypic switching and the cellular response to antifungal peptoids in <i>Candida albicans</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 19375-19380.	3.3	137
16	Advantages and limitations of next-generation sequencing technologies: A comparison of electrophoresis and non-electrophoresis methods. <i>Electrophoresis</i> , 2008, 29, 4618-4626.	1.3	132
17	The effects of polymer properties on DNA separations by capillary electrophoresis in uncross-linked polymer solutions. <i>Electrophoresis</i> , 1996, 17, 744-757.	1.3	125
18	A Threaded Loop Conformation Adopted by a Family of Peptoid Nonamers. <i>Journal of the American Chemical Society</i> , 2006, 128, 1733-1738.	6.6	124

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19	Polymeric matrices for DNA sequencing by capillary electrophoresis. <i>Electrophoresis</i> , 2000, 21, 4096-4111.	1.3	119
20	Antimicrobial Peptoids Are Effective against <i>Pseudomonas aeruginosa</i> Biofilms. <i>Antimicrobial Agents and Chemotherapy</i> , 2011, 55, 3054-3057.	1.4	115
21	Microchannel DNA Sequencing Matrices with a Thermally Controlled "Viscosity Switch". <i>Analytical Chemistry</i> , 2001, 73, 157-164.	3.2	111
22	DNA sequencing and genotyping in miniaturized electrophoresis systems. <i>Electrophoresis</i> , 2004, 25, 3564-3588.	1.3	108
23	Short Alkylated Peptoid Mimics of Antimicrobial Lipopeptides. <i>Antimicrobial Agents and Chemotherapy</i> , 2011, 55, 417-420.	1.4	108
24	End-labeled free-solution electrophoresis of DNA. <i>Electrophoresis</i> , 2005, 26, 331-350.	1.3	104
25	Surface-immobilised antimicrobial peptoids. <i>Biofouling</i> , 2008, 24, 439-448.	0.8	97
26	Efficacy of Antimicrobial Peptoids against <i>Mycobacterium tuberculosis</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2011, 55, 3058-3062.	1.4	93
27	Modular enzymatically crosslinked protein polymer hydrogels for in situ gelation. <i>Biomaterials</i> , 2010, 31, 7288-7297.	5.7	92
28	Poly-N-hydroxyethylacrylamide as a novel, adsorbed coating for protein separation by capillary electrophoresis. <i>Electrophoresis</i> , 2003, 24, 1166-1175.	1.3	91
29	Role of Microbes in the Development of Alzheimer's Disease: State of the Art " An International Symposium Presented at the 2017 IAGG Congress in San Francisco. <i>Frontiers in Genetics</i> , 2018, 9, 362.	1.1	91
30	Multiplexed, High-Throughput Genotyping by Single-Base Extension and End-Labeled Free-Solution Electrophoresis. <i>Analytical Chemistry</i> , 2002, 74, 4328-4333.	3.2	88
31	Critical factors for high-performance physically adsorbed (dynamic) polymeric wall coatings for capillary electrophoresis of DNA. <i>Electrophoresis</i> , 2002, 23, 2766-2776.	1.3	85
32	The use of coated and uncoated capillaries for the electrophoretic separation of DNA in dilute polymer solutions. <i>Electrophoresis</i> , 1995, 16, 64-74.	1.3	80
33	A tunable silk-alginate hydrogel scaffold for stem cell culture and transplantation. <i>Biomaterials</i> , 2014, 35, 3736-3743.	5.7	80
34	In Vivo, In Vitro, and In Silico Characterization of Peptoids as Antimicrobial Agents. <i>PLoS ONE</i> , 2016, 11, e0135961.	1.1	78
35	Helical Peptoid Mimics of Lung Surfactant Protein C. <i>Chemistry and Biology</i> , 2003, 10, 1057-1063.	6.2	76
36	Simple, Helical Peptoid Analogs of Lung Surfactant Protein B. <i>Chemistry and Biology</i> , 2005, 12, 77-88.	6.2	74

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37	Peptoids: Bio-Inspired Polymers as Potential Pharmaceuticals. <i>Current Pharmaceutical Design</i> , 2011, 17, 2732-2747.	0.9	73
38	Poly-N-hydroxyethylacrylamide (polyDuramide \hat{a} , ϕ): A novel, hydrophilic, self-coating polymer matrix for DNA sequencing by capillary electrophoresis. <i>Electrophoresis</i> , 2002, 23, 1429.	1.3	72
39	Impact of polymer hydrophobicity on the properties and performance of DNA sequencing matrices for capillary electrophoresis. <i>Electrophoresis</i> , 2001, 22, 737-747.	1.3	69
40	Ultrafast DNA sequencing on a microchip by a hybrid separation mechanism that gives 600 bases in 6.5 minutes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 476-481.	3.3	64
41	High-Throughput, High-Sensitivity Genetic Mutation Detection by Tandem Single-Strand Conformation Polymorphism/Heteroduplex Analysis Capillary Array Electrophoresis. <i>Analytical Chemistry</i> , 2002, 74, 2565-2572.	3.2	63
42	Viperidins: a novel family of cathelicidin-related peptides from the venom gland of South American pit vipers. <i>Amino Acids</i> , 2014, 46, 2561-2571.	1.2	60
43	Halogenation as a tool to tune antimicrobial activity of peptoids. <i>Scientific Reports</i> , 2020, 10, 14805.	1.6	60
44	Learning from Host-Defense Peptides: Cationic, Amphipathic Peptoids with Potent Anticancer Activity. <i>PLoS ONE</i> , 2014, 9, e90397.	1.1	60
45	Molar Mass Profiling of Synthetic Polymers by Free-Solution Capillary Electrophoresis of DNA \hat{a} ~Polymer Conjugates. <i>Analytical Chemistry</i> , 2001, 73, 1795-1803.	3.2	59
46	Technical challenges in applying capillary electrophoresis-single strand conformation polymorphism for routine genetic analysis. <i>Electrophoresis</i> , 2002, 23, 1375.	1.3	56
47	Human antimicrobial peptide LL-37 induces glial-mediated neuroinflammation. <i>Biochemical Pharmacology</i> , 2015, 94, 130-141.	2.0	54
48	Poly(acrylamide-co-alkylacrylamides) for Electrophoretic DNA Purification in Microchannels. <i>Analytical Chemistry</i> , 2005, 77, 772-779.	3.2	51
49	<i>In Vivo</i> Biodistribution and Small Animal PET of ⁶⁴ Cu-Labeled Antimicrobial Peptoids. <i>Bioconjugate Chemistry</i> , 2012, 23, 1069-1079.	1.8	51
50	DNA Separations by Slab Gel, and Capillary Electrophoresis: Theory and Practice. <i>Separation and Purification Reviews</i> , 1995, 24, 1-118.	0.8	50
51	A New Cloning Method for the Preparation of Long Repetitive Polypeptides without a Sequence Requirement. <i>Macromolecules</i> , 2002, 35, 8281-8287.	2.2	50
52	Experimental and theoretical investigation of chain length and surface coverage on fouling of surface grafted polypeptoids. <i>Biointerphases</i> , 2009, 4, FA22-FA32.	0.6	49
53	Visualizing and quantifying cell phenotype using soft X-ray tomography. <i>BioEssays</i> , 2012, 34, 320-327.	1.2	49
54	Chemoselective and Microwave-Assisted Synthesis of Glycopeptoids. <i>Organic Letters</i> , 2009, 11, 5210-5213.	2.4	48

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55	Novel Peptoid Building Blocks: Synthesis of Functionalized Aromatic Helix-Inducing Submonomers. <i>Organic Letters</i> , 2010, 12, 492-495.	2.4	48
56	Sustained prolonged topical delivery of bioactive human insulin for potential treatment of cutaneous wounds. <i>International Journal of Pharmaceutics</i> , 2010, 398, 146-154.	2.6	47
57	Tunable, Post-translational Hydroxylation of Collagen Domains in <i>Escherichia coli</i> . <i>ACS Chemical Biology</i> , 2011, 6, 320-324.	1.6	47
58	Comblike, Monodisperse Polypeptoid Drag-Tags for DNA Separations by End-Labeled Free-Solution Electrophoresis (ELFSE). <i>Bioconjugate Chemistry</i> , 2005, 16, 929-938.	1.8	46
59	Effects of Hydrophobic Helix Length and Side Chain Chemistry on Biomimicry in Peptoid Analogues of SP-C. <i>Biochemistry</i> , 2008, 47, 1808-1818.	1.2	46
60	Alginate-PEG Sponge Architecture and Role in the Design of Insulin Release Dressings. <i>Biomacromolecules</i> , 2012, 13, 1478-1485.	2.6	45
61	No Evidence of Pathogenic Involvement of Cathelicidins in Patient Cohorts and Mouse Models of Lupus and Arthritis. <i>PLoS ONE</i> , 2014, 9, e115474.	1.1	45
62	Intracellular biomass flocculation as a key mechanism of rapid bacterial killing by cationic, amphipathic antimicrobial peptides and peptoids. <i>Scientific Reports</i> , 2017, 7, 16718.	1.6	45
63	The potential of electrophoretic mobility shift assays for clinical mutation detection. <i>Electrophoresis</i> , 2006, 27, 3805-3815.	1.3	44
64	Evidence that the Human Innate Immune Peptide LL-37 may be a Binding Partner of Amyloid- β^2 and Inhibitor of Fibril Assembly. <i>Journal of Alzheimer's Disease</i> , 2017, 59, 1213-1226.	1.2	44
65	Periprosthetic bacterial biofilm and quorum sensing. <i>Journal of Orthopaedic Research</i> , 2018, 36, 2331-2339.	1.2	43
66	Sparsely Cross-Linked "Nanogel" Matrixes as Fluid, Mechanically Stabilized Polymer Networks for High-Throughput Microchannel DNA Sequencing. <i>Analytical Chemistry</i> , 2004, 76, 5249-5256.	3.2	42
67	Effect of side chain hydrophobicity and cationic charge on antimicrobial activity and cytotoxicity of helical peptoids. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2018, 28, 170-173.	1.0	41
68	Effects of Including an N-Terminal Insertion Region and Arginine-Mimetic Side Chains in Helical Peptoid Analogues of Lung Surfactant Protein B. <i>Biochemistry</i> , 2006, 45, 11809-11818.	1.2	40
69	Self-assembling peptide-lipoplexes for substrate-mediated gene delivery. <i>Acta Biomaterialia</i> , 2009, 5, 903-912.	4.1	40
70	Multivalent Protein Polymer MRI Contrast Agents: Controlling Relaxivity via Modulation of Amino Acid Sequence. <i>Biomacromolecules</i> , 2010, 11, 1429-1436.	2.6	36
71	Functional Synergy between Antimicrobial Peptoids and Peptides against Gram-Negative Bacteria. <i>Antimicrobial Agents and Chemotherapy</i> , 2011, 55, 5399-5402.	1.4	36
72	What is the future of electrophoresis in large-scale genomic sequencing?. <i>Electrophoresis</i> , 2006, 27, 3689-3702.	1.3	35

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73	Hyperactivation of monocytes and macrophages in MCI patients contributes to the progression of Alzheimer's disease. <i>Immunity and Ageing</i> , 2021, 18, 29.	1.8	35
74	Self-Assembly of Antimicrobial Peptoids Impacts Their Biological Effects on <i>ESKAPE</i> Bacterial Pathogens. <i>ACS Infectious Diseases</i> , 2022, 8, 533-545.	1.8	35
75	Biomimicry of Surfactant Protein C. <i>Accounts of Chemical Research</i> , 2008, 41, 1409-1417.	7.6	34
76	Comparing Bacterial Membrane Interactions of Antimicrobial Peptides and Their Mimics. <i>Methods in Molecular Biology</i> , 2010, 618, 171-182.	0.4	34
77	The Human Host Defense Peptide Cathelicidin LL-37 is a Nanomolar Inhibitor of Amyloid Self-Assembly of Islet Amyloid Polypeptide (IAPP). <i>Angewandte Chemie - International Edition</i> , 2020, 59, 12837-12841.	7.2	34
78	Sequencing of DNA by Free-Solution Capillary Electrophoresis Using a Genetically Engineered Protein Polymer Drag-Tag. <i>Analytical Chemistry</i> , 2008, 80, 2842-2848.	3.2	33
79	Biophysical Mimicry of Lung Surfactant Protein B by Random Nylon-3 Copolymers. <i>Journal of the American Chemical Society</i> , 2010, 132, 7957-7967.	6.6	32
80	Synthesis and Characterization of a New Class of Cationic Protein Polymers for Multivalent Display and Biomaterial Applications. <i>Biomacromolecules</i> , 2009, 10, 1125-1134.	2.6	31
81	Capillary Electrophoretic Separation of DNA Restriction Fragments in Mixtures of Low- and High-Molecular-Weight Hydroxyethylcellulose. <i>Industrial & Engineering Chemistry Research</i> , 1996, 35, 2900-2908.	1.8	30
82	Protein polymer drag-tags for DNA separations by end-labeled free-solution electrophoresis. <i>Electrophoresis</i> , 2005, 26, 2138-2148.	1.3	30
83	Protein and peptide biomimicry: Gold mining inspiration from Nature's ingenuity. <i>AIChE Journal</i> , 2008, 54, 2-8.	1.8	30
84	Versatile Oligo(N-Substituted) Glycines: The Many Roles of Peptoids in Drug Discovery. , 2005, , 1-31.		29
85	Sparsely cross-linked nanogels for microchannel DNA sequencing. <i>Electrophoresis</i> , 2003, 24, 4170-4180.	1.3	28
86	Potent Antiviral Activity against HSV-1 and SARS-CoV-2 by Antimicrobial Peptoids. <i>Pharmaceuticals</i> , 2021, 14, 304.	1.7	28
87	Multiplexed p53 Mutation Detection by Free-Solution Conjugate Microchannel Electrophoresis with Polyamide Drag-Tags. <i>Analytical Chemistry</i> , 2007, 79, 1848-1854.	3.2	27
88	Purification of HIV RNA from Serum Using a Polymer Capture Matrix in a Microfluidic Device. <i>Analytical Chemistry</i> , 2011, 83, 982-988.	3.2	27
89	Effective in vivo treatment of acute lung injury with helical, amphipathic peptoid mimics of pulmonary surfactant proteins. <i>Scientific Reports</i> , 2018, 8, 6795.	1.6	27
90	Free-solution electrophoresis of DNA modified with drag-tags at both ends. <i>Electrophoresis</i> , 2006, 27, 1702-1712.	1.3	26

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91	Close mimicry of lung surfactant protein B by "clicked" dimers of helical, cationic peptoids. <i>Biopolymers</i> , 2009, 92, 538-553.	1.2	26
92	A 265-Base DNA Sequencing Read by Capillary Electrophoresis with No Separation Matrix. <i>Analytical Chemistry</i> , 2011, 83, 509-515.	3.2	26
93	Profiling Solid-Phase Synthesis Products by Free-Solution Conjugate Capillary Electrophoresis. <i>Bioconjugate Chemistry</i> , 2002, 13, 663-670.	1.8	25
94	An optimized microchip electrophoresis system for mutation detection by tandem SSCP and heteroduplex analysis for p53 gene exons 5-9. <i>Electrophoresis</i> , 2006, 27, 3823-3835.	1.3	25
95	Protein polymer MRI contrast agents: Longitudinal analysis of biomaterials in vivo. <i>Magnetic Resonance in Medicine</i> , 2011, 65, 220-228.	1.9	25
96	The use of light scattering for precise characterization of polymers for DNA sequencing by capillary electrophoresis. <i>Electrophoresis</i> , 2001, 22, 4118-4128.	1.3	24
97	Ligase detection reaction for the analysis of point mutations using free solution conjugate electrophoresis in a polymer microfluidic device. <i>Electrophoresis</i> , 2008, 29, 4751-4760.	1.3	24
98	Capillary electrophoresis of DNA in uncrosslinked polymer solutions: Evidence for a new mechanism of DNA separation. , 2000, 52, 259-270.		22
99	Self-Associating Block Copolymer Networks for Microchip Electrophoresis Provide Enhanced DNA Separation via "Inchworm" Chain Dynamics. <i>Analytical Chemistry</i> , 2006, 78, 4409-4415.	3.2	22
100	Engineering Surfaces for Substrate-Mediated Gene Delivery Using Recombinant Proteins. <i>Biomacromolecules</i> , 2009, 10, 2779-2786.	2.6	22
101	Non-ionic, thermo-responsive DEA/DMA nanogels: Synthesis, characterization, and use for DNA separations by microchip electrophoresis. <i>Journal of Colloid and Interface Science</i> , 2011, 357, 345-353.	5.0	22
102	Lipid composition greatly affects the in vitro surface activity of lung surfactant protein mimics. <i>Colloids and Surfaces B: Biointerfaces</i> , 2007, 57, 37-55.	2.5	21
103	Biomimetic N-Terminal Alkylation of Peptoid Analogues of Surfactant Protein C. <i>Biophysical Journal</i> , 2011, 101, 1076-1085.	0.2	21
104	Peptoid transporters: effects of cationic, amphipathic structure on their cellular uptake. <i>Molecular BioSystems</i> , 2012, 8, 2626.	2.9	21
105	Broad-spectrum CRISPR-mediated inhibition of SARS-CoV-2 variants and endemic coronaviruses in vitro. <i>Nature Communications</i> , 2022, 13, 2766.	5.8	20
106	Optical monitoring of bubble size and shape in a pulsating bubble surfactometer. <i>Journal of Applied Physiology</i> , 2005, 99, 624-633.	1.2	19
107	Mimicking SP-C palmitoylation on a peptoid-based SP-B analogue markedly improves surface activity. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2010, 1798, 1663-1678.	1.4	19
108	Targeting Infectious Agents as a Therapeutic Strategy in Alzheimer's Disease. <i>CNS Drugs</i> , 2020, 34, 673-695.	2.7	19

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109	A novel thermogelling matrix for microchannel DNA sequencing based on poly-N-alkoxyalkylacrylamide copolymers. <i>Electrophoresis</i> , 2003, 24, 4161-4169.	1.3	18
110	Polymer systems designed specifically for DNA sequencing by microchip electrophoresis: A comparison with commercially available materials. <i>Electrophoresis</i> , 2008, 29, 4652-4662.	1.3	18
111	Optimized Sample Preparation for Tandem Capillary Electrophoresis Single-Stranded Conformational Polymorphism/Heteroduplex Analysis. <i>BioTechniques</i> , 2002, 33, 318-325.	0.8	17
112	Characterization of Glutamine Deamidation in a Long, Repetitive Protein Polymer via Bioconjugate Capillary Electrophoresis. <i>Biomacromolecules</i> , 2004, 5, 618-627.	2.6	17
113	Microfabricated devices for biomolecule encapsulation. <i>Electrophoresis</i> , 2012, 33, 2639-2649.	1.3	17
114	Prostate tumor specific peptide-peptoid hybrid prodrugs. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 2849-2852.	1.0	17
115	A Readily Applicable Strategy to Convert Peptides to Peptoid-based Therapeutics. <i>PLoS ONE</i> , 2013, 8, e58874.	1.1	17
116	DNA migration mechanism analyses for applications in capillary and microchip electrophoresis. <i>Electrophoresis</i> , 2009, 30, 2014-2024.	1.3	16
117	Stochastic Single-Molecule Videomicroscopy Methods To Measure Electrophoretic DNA Migration Modalities in Polymer Solutions above and below Entanglement. <i>Analytical Chemistry</i> , 2007, 79, 7740-7747.	3.2	15
118	Peptide-mediated lipofection is governed by lipoplex physical properties and the density of surface-displayed amines. <i>Journal of Pharmaceutical Sciences</i> , 2008, 97, 4794-4806.	1.6	15
119	Size-based protein separations by microchip electrophoresis using an acid-labile surfactant as a replacement for SDS. <i>Electrophoresis</i> , 2009, 30, 2117-2122.	1.3	15
120	A fluorescence polarization assay using an engineered human respiratory syncytial virus F protein as a direct screening platform. <i>Analytical Biochemistry</i> , 2011, 409, 195-201.	1.1	14
121	Simultaneous detection of 19 KRAS mutations by free-solution conjugate electrophoresis of ligase detection reaction products on glass microchips. <i>Electrophoresis</i> , 2013, 34, 590-597.	1.3	14
122	Hydrophobically modified polyacrylamide block copolymers for fast, high-resolution DNA sequencing in microfluidic chips. <i>Electrophoresis</i> , 2008, 29, 4669-4676.	1.3	13
123	Ultrafast, efficient separations of large-sized dsDNA in a blended polymer matrix by microfluidic chip electrophoresis: A design of experiments approach. <i>Electrophoresis</i> , 2011, 32, 3233-3240.	1.3	13
124	Targeting Impaired Antimicrobial Immunity in the Brain for the Treatment of Alzheimer's Disease. <i>Neuropsychiatric Disease and Treatment</i> , 2021, Volume 17, 1311-1339.	1.0	13
125	NMECylation: A novel modification to enhance the bioavailability of therapeutic peptides. <i>Biopolymers</i> , 2011, 96, 688-693.	1.2	12
126	Commentary progress in the de novo design of structured peptoid protein mimics. <i>Biopolymers</i> , 2011, 96, 556-560.	1.2	12

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127	DNA sequencing by microchip electrophoresis using mixtures of high- and low-molar mass poly(<i>N,N</i> -dimethylacrylamide) matrices. <i>Electrophoresis</i> , 2008, 29, 4663-4668.	1.3	11
128	Protein polymer hydrogels: Effects of endotoxin on biocompatibility. <i>Journal of Biomaterials Applications</i> , 2013, 28, 395-406.	1.2	11
129	Completely Monodisperse, Highly Repetitive Proteins for Bioconjugate Capillary Electrophoresis: Development and Characterization. <i>Biomacromolecules</i> , 2011, 12, 2275-2284.	2.6	9
130	A chemically synthesized peptoid-based drag-tag enhances free-solution DNA sequencing by capillary electrophoresis. <i>Biopolymers</i> , 2011, 96, 702-707.	1.2	9
131	A Four-Arm Star-Shaped Poly(ethylene glycol) (StarPEG) Platform for Bombesin Peptide Delivery to Gastrin-Releasing Peptide Receptors in Prostate Cancer. <i>ACS Macro Letters</i> , 2012, 1, 753-757.	2.3	8
132	Encapsulation of protein microfiber networks supporting pancreatic islets. <i>Journal of Biomedical Materials Research - Part A</i> , 2012, 100A, 3384-3391.	2.1	8
133	Efficacy of Cathelicidin-Mimetic Antimicrobial Peptoids against <i>Staphylococcus aureus</i> . <i>Microbiology Spectrum</i> , 2022, 10, e0053422.	1.2	8
134	Blinded study determination of high sensitivity and specificity microchip electrophoresis-SSCP/HA to detect mutations in the p53 gene. <i>Electrophoresis</i> , 2011, 32, 2921-2929.	1.3	7
135	Divergent dispersion behavior of ssDNA fragments during microchip electrophoresis in pDMA and LPA entangled polymer networks. <i>Electrophoresis</i> , 2012, 33, 1411-1420.	1.3	7
136	Quantitative experimental determination of primer-dimer formation risk by free-solution conjugate electrophoresis. <i>Electrophoresis</i> , 2012, 33, 483-491.	1.3	7
137	Thermoresponsive <i>N</i> -alkoxyalkylacrylamide polymers as a sieving matrix for high-resolution DNA separations on a microfluidic chip. <i>Electrophoresis</i> , 2008, 29, 4677-4683.	1.3	6
138	Free-solution electrophoretic separations of DNA-drag-tag conjugates on glass microchips with no polymer network and no loss of resolution at increased electric field strength. <i>Electrophoresis</i> , 2011, 32, 1201-1208.	1.3	6
139	Helical side chain chemistry of a peptoid-based SP- α analogue: Balancing structural rigidity and biomimicry. <i>Biopolymers</i> , 2019, 110, e23277.	1.2	6
140	Optimizing Exogenous Surfactant as a Pulmonary Delivery Vehicle for Chicken Cathelicidin-2. <i>Scientific Reports</i> , 2020, 10, 9392.	1.6	5
141	Synthesis and Assembly of Functional High Molecular Weight Adiponectin Multimers in an Engineered Strain of <i>Escherichia coli</i> . <i>Biomacromolecules</i> , 2012, 13, 1035-1042.	2.6	4
142	1072 INHIBITION OF BLADDER CANCER CELL GROWTH BY TREATMENT WITH SYNTHETICALLY DERIVED ANTI-CANCER PEPTOIDS. <i>Journal of Urology</i> , 2012, 187, .	0.2	2
143	Monodisperse, Highly-Positively Charged Protein Polymer Drag-Tags Generated in an Intein-Mediated Purification System Used in Free-Solution Electrophoretic Separations of DNA. <i>Biomacromolecules</i> , 2012, 13, 117-123.	2.6	2
144	Evidence that the Human Innate Immune Peptide LL-37 May Be a Binding Partner of A β and Inhibitor of Fibril Assembly. <i>Biophysical Journal</i> , 2018, 114, 393a.	0.2	2

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145	Das humane Wirtsabwehrpeptid Cathelicidin LL% ist ein nanomolarer Inhibitor der amyloiden Selbstassoziation von InselamyloidÜPolypeptid (IAPP). Angewandte Chemie, 2020, 132, 12937-12941.	1.6	2
146	Surface Behaviour of Peptoid Mimics of Pulmonary Surfactant Protein SP-C: Captive Bubble Surfactometry. Biophysical Journal, 2009, 96, 352a.	0.2	1
147	Gene libraries open up. Nature Materials, 2011, 10, 83-84.	13.3	1
148	Microchip-Based Sanger Sequencing of DNA. , 0, , 153-163.		1
149	Biophysical Mechanisms of Host Defense Peptide (HDP) Toxicity as Revealed by a Study of Peptoid Mimics of HDPs. FASEB Journal, 2011, 25, 206.2.	0.2	1
150	Surface Rheological and Morphological Studies of Peptoid Mimics of Lung Surfactant Protein C. Biophysical Journal, 2010, 98, 89a-90a.	0.2	0
151	Potent antiviral activity against HSV-1 and SARS-CoV-2 by antimicrobial peptoids. , 0, , .		0