# Annelise E Barron

## List of Publications by Citations



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|---|---|---|---|
| 147 papers | 7,837 citations | 46 h-index | 84 g-index |
| 155 ext. papers | 8,429 ext. citations | 5.9 avg, IF | 5.83 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 147 | Peptoids that mimic the structure, function, and mechanism of helical antimicrobial peptides. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 2794-9 | 11.5 | 481 |
| 146 | New peptidomimetic polymers for antifouling surfaces. *Journal of the American Chemical Society*, **2005**, 127, 7972-3 | 16.4 | 367 |
| 145 | Helical peptoid mimics of magainin-2 amide. *Journal of the American Chemical Society*, **2003**, 125, 12092-3 | 16.4 | 316 |
| 144 | Microchannel wall coatings for protein separations by capillary and chip electrophoresis. *Electrophoresis*, **2003**, 24, 34-54 | 3.6 | 255 |
| 143 | Landscape of next-generation sequencing technologies. *Analytical Chemistry*, **2011**, 83, 4327-41 | 7.8 | 253 |
| 142 | Structural and spectroscopic studies of peptoid oligomers with alpha-chiral aliphatic side chains. *Journal of the American Chemical Society*, **2003**, 125, 13525-30 | 16.4 | 245 |
| 141 | Mimicry of bioactive peptides via non-natural, sequence-specific peptidomimetic oligomers. *Current Opinion in Chemical Biology*, **2002**, 6, 872-7 | 9.7 | 232 |
| 140 | Capillary electrophoresis of DNA in uncross-linked polymer solutions. *Journal of Chromatography A*, **1993**, 652, 3-16 | 4.5 | 205 |
| 139 | Peptoid oligomers with alpha-chiral, aromatic side chains: sequence requirements for the formation of stable peptoid helices. *Journal of the American Chemical Society*, **2001**, 123, 6778-84 | 16.4 | 199 |
| 138 | A transient entanglement coupling mechanism for DNA separation by capillary electrophoresis in ultradilute polymer solutions. *Electrophoresis*, **1994**, 15, 597-615 | 3.6 | 194 |
| 137 | Peptoid oligomers with alpha-chiral, aromatic side chains: effects of chain length on secondary structure. *Journal of the American Chemical Society*, **2001**, 123, 2958-63 | 16.4 | 169 |
| 136 | Extreme stability of helices formed by water-soluble poly-N-substituted glycines (polypeptoids) with alpha-chiral side chains. *Biopolymers*, **2002**, 63, 12-20 | 2.2 | 132 |
| 135 | Enhanced function of pancreatic islets co-encapsulated with ECM proteins and mesenchymal stromal cells in a silk hydrogel. *Biomaterials*, **2012**, 33, 6691-7 | 15.6 | 131 |
| 134 | DNA sequencing up to 1300 bases in two hours by capillary electrophoresis with mixed replaceable linear polyacrylamide solutions. *Analytical Chemistry*, **2000**, 72, 1045-52 | 7.8 | 131 |
| 133 | The effects of polymer properties on DNA separations by capillary electrophoresis in uncross-linked polymer solutions. *Electrophoresis*, **1996**, 17, 744-57 | 3.6 | 117 |
| 132 | Soft X-ray tomography of phenotypic switching and the cellular response to antifungal peptoids in Candida albicans. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 19375-80 | 11.5 | 114 |
| 131 | A threaded loop conformation adopted by a family of peptoid nonamers. *Journal of the American Chemical Society*, **2006**, 128, 1733-8 | 16.4 | 113 |

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| 130 | Advantages and limitations of next-generation sequencing technologies: a comparison of electrophoresis and non-electrophoresis methods. *Electrophoresis*, **2008**, 29, 4618-26 | 3.6 | 111 |
| 129 | Polymeric matrices for DNA sequencing by capillary electrophoresis. *Electrophoresis*, **2000**, 21, 4096-111 | 3.6 | 110 |
| 128 | Microchannel DNA sequencing matrices with a thermally controlled "viscosity switch". *Analytical Chemistry*, **2001**, 73, 157-64 | 7.8 | 105 |
| 127 | Antimicrobial peptoids are effective against Pseudomonas aeruginosa biofilms. *Antimicrobial Agents and Chemotherapy*, **2011**, 55, 3054-7 | 5.9 | 101 |
| 126 | End-labeled free-solution electrophoresis of DNA. *Electrophoresis*, **2005**, 26, 331-50 | 3.6 | 96 |
| 125 | DNA sequencing and genotyping in miniaturized electrophoresis systems. *Electrophoresis*, **2004**, 25, 3564-88 | 3.6 | 95 |
| 124 | Short alkylated peptoid mimics of antimicrobial lipopeptides. *Antimicrobial Agents and Chemotherapy*, **2011**, 55, 417-20 | 5.9 | 94 |
| 123 | Surface-immobilised antimicrobial peptoids. *Biofouling*, **2008**, 24, 439-48 | 3.3 | 90 |
| 122 | Poly-N-hydroxyethylacrylamide as a novel, adsorbed coating for protein separation by capillary electrophoresis. *Electrophoresis*, **2003**, 24, 1166-75 | 3.6 | 87 |
| 121 | Multiplexed, high-throughput genotyping by single-base extension and end-labeled free-solution electrophoresis. *Analytical Chemistry*, **2002**, 74, 4328-33 | 7.8 | 81 |
| 120 | Efficacy of antimicrobial peptoids against Mycobacterium tuberculosis. *Antimicrobial Agents and Chemotherapy*, **2011**, 55, 3058-62 | 5.9 | 80 |
| 119 | Critical factors for high-performance physically adsorbed (dynamic) polymeric wall coatings for capillary electrophoresis of DNA. *Electrophoresis*, **2002**, 23, 2766-76 | 3.6 | 79 |
| 118 | Modular enzymatically crosslinked protein polymer hydrogels for in situ gelation. *Biomaterials*, **2010**, 31, 7288-97 | 15.6 | 75 |
| 117 | The use of coated and uncoated capillaries for the electrophoretic separation of DNA in dilute polymer solutions. *Electrophoresis*, **1995**, 16, 64-74 | 3.6 | 74 |
| 116 | A tunable silk-alginate hydrogel scaffold for stem cell culture and transplantation. *Biomaterials*, **2014**, 35, 3736-43 | 15.6 | 72 |
| 115 | Helical peptoid mimics of lung surfactant protein C. *Chemistry and Biology*, **2003**, 10, 1057-63 | | 72 |
| 114 | Simple, helical peptoid analogs of lung surfactant protein B. *Chemistry and Biology*, **2005**, 12, 77-88 | | 71 |
| 113 | Poly-N-hydroxyethylacrylamide (polyDuramide): a novel, hydrophilic, self-coating polymer matrix for DNA sequencing by capillary electrophoresis. *Electrophoresis*, **2002**, 23, 1429-40 | 3.6 | 67 |

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| 112 | Impact of polymer hydrophobicity on the properties and performance of DNA sequencing matrices for capillary electrophoresis. *Electrophoresis*, **2001**, 22, 737-47 | 3.6 | 65 |
| 111 | In Vivo, In Vitro, and In Silico Characterization of Peptoids as Antimicrobial Agents. *PLoS ONE*, **2016**, 11, e0135961 | 3.7 | 64 |
| 110 | High-throughput, high-sensitivity genetic mutation detection by tandem single-strand conformation polymorphism/heteroduplex analysis capillary array electrophoresis. *Analytical Chemistry*, **2002**, 74, 2565-72 | 7.8 | 62 |
| 109 | Peptoids: bio-inspired polymers as potential pharmaceuticals. *Current Pharmaceutical Design*, **2011**, 17, 2732-47 | 3.3 | 59 |
| 108 | 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. *Frontiers in Genetics*, **2018**, 9, 362 | 4.5 | 56 |
| 107 | Ultrafast DNA sequencing on a microchip by a hybrid separation mechanism that gives 600 bases in 6.5 minutes. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 476-81 | 11.5 | 54 |
| 106 | Molar mass profiling of synthetic polymers by free-solution capillary electrophoresis of DNA-polymer conjugates. *Analytical Chemistry*, **2001**, 73, 1795-803 | 7.8 | 54 |
| 105 | Technical challenges in applying capillary electrophoresis-single strand conformation polymorphism for routine genetic analysis. *Electrophoresis*, **2002**, 23, 1375-85 | 3.6 | 53 |
| 104 | Learning from host-defense peptides: cationic, amphipathic peptoids with potent anticancer activity. *PLoS ONE*, **2014**, 9, e90397 | 3.7 | 51 |
| 103 | DNA Separations by Slab Gel, and Capillary Electrophoresis: Theory and Practice. *Separation and Purification Reviews*, **1995**, 24, 1-118 | | 49 |
| 102 | Vipericidins: a novel family of cathelicidin-related peptides from the venom gland of South American pit vipers. *Amino Acids*, **2014**, 46, 2561-71 | 3.5 | 46 |
| 101 | Novel peptoid building blocks: synthesis of functionalized aromatic helix-inducing submonomers. *Organic Letters*, **2010**, 12, 492-5 | 6.2 | 45 |
| 100 | Experimental and theoretical investigation of chain length and surface coverage on fouling of surface grafted polypeptoids. *Biointerphases*, **2009**, 4, FA22-32 | 1.8 | 45 |
| 99 | Chemoselective and microwave-assisted synthesis of glycopeptoids. *Organic Letters*, **2009**, 11, 5210-3 | 6.2 | 45 |
| 98 | Effects of hydrophobic helix length and side chain chemistry on biomimicry in peptoid analogues of SP-C. *Biochemistry*, **2008**, 47, 1808-18 | 3.2 | 45 |
| 97 | Poly(acrylamide-co-alkylacrylamides) for electrophoretic DNA purification in microchannels. *Analytical Chemistry*, **2005**, 77, 772-9 | 7.8 | 45 |
| 96 | A New Cloning Method for the Preparation of Long Repetitive Polypeptides without a Sequence Requirement. *Macromolecules*, **2002**, 35, 8281-8287 | 5.5 | 45 |
| 95 | In vivo biodistribution and small animal PET of (64)Cu-labeled antimicrobial peptoids. *Bioconjugate Chemistry*, **2012**, 23, 1069-79 | 6.3 | 43 |

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| 94 | Visualizing and quantifying cell phenotype using soft X-ray tomography. *BioEssays*, **2012**, 34, 320-7 | 4.1 | 43 |
| 93 | Sustained prolonged topical delivery of bioactive human insulin for potential treatment of cutaneous wounds. *International Journal of Pharmaceutics*, **2010**, 398, 146-54 | 6.5 | 42 |
| 92 | The potential of electrophoretic mobility shift assays for clinical mutation detection. *Electrophoresis*, **2006**, 27, 3805-15 | 3.6 | 41 |
| 91 | Comblike, monodisperse polypeptoid drag-tags for DNA separations by end-labeled free-solution electrophoresis (ELFSE). *Bioconjugate Chemistry*, **2005**, 16, 929-38 | 6.3 | 40 |
| 90 | Tunable, post-translational hydroxylation of collagen Domains in Escherichia coli. *ACS Chemical Biology*, **2011**, 6, 320-4 | 4.9 | 39 |
| 89 | Sparsely cross-linked "nanogel" matrixes as fluid, mechanically stabilized polymer networks for high-throughput microchannel DNA sequencing. *Analytical Chemistry*, **2004**, 76, 5249-56 | 7.8 | 39 |
| 88 | Effects of including an N-terminal insertion region and arginine-mimetic side chains in helical peptoid analogues of lung surfactant protein B. *Biochemistry*, **2006**, 45, 11809-18 | 3.2 | 38 |
| 87 | Alginate-PEG sponge architecture and role in the design of insulin release dressings. *Biomacromolecules*, **2012**, 13, 1478-85 | 6.9 | 36 |
| 86 | Functional synergy between antimicrobial peptoids and peptides against Gram-negative bacteria. *Antimicrobial Agents and Chemotherapy*, **2011**, 55, 5399-402 | 5.9 | 35 |
| 85 | Human antimicrobial peptide LL-37 induces glial-mediated neuroinflammation. *Biochemical Pharmacology*, **2015**, 94, 130-41 | 6 | 34 |
| 84 | Multivalent protein polymer MRI contrast agents: controlling relaxivity via modulation of amino acid sequence. *Biomacromolecules*, **2010**, 11, 1429-36 | 6.9 | 34 |
| 83 | Self-assembling peptide-lipoplexes for substrate-mediated gene delivery. *Acta Biomaterialia*, **2009**, 5, 903-12 | 10.8 | 34 |
| 82 | Comparing bacterial membrane interactions of antimicrobial peptides and their mimics. *Methods in Molecular Biology*, **2010**, 618, 171-82 | 1.4 | 32 |
| 81 | Biophysical mimicry of lung surfactant protein B by random nylon-3 copolymers. *Journal of the American Chemical Society*, **2010**, 132, 7957-67 | 16.4 | 31 |
| 80 | What is the future of electrophoresis in large-scale genomic sequencing?. *Electrophoresis*, **2006**, 27, 3689-702 | 3.6 | 31 |
| 79 | Synthesis and characterization of a new class of cationic protein polymers for multivalent display and biomaterial applications. *Biomacromolecules*, **2009**, 10, 1125-34 | 6.9 | 30 |
| 78 | Biomimicry of surfactant protein C. *Accounts of Chemical Research*, **2008**, 41, 1409-17 | 24.3 | 30 |
| 77 | Sequencing of DNA by free-solution capillary electrophoresis using a genetically engineered protein polymer drag-tag. *Analytical Chemistry*, **2008**, 80, 2842-8 | 7.8 | 30 |

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| 76 | Protein polymer drag-tags for DNA separations by end-labeled free-solution electrophoresis. *Electrophoresis*, **2005**, 26, 2138-48 | 3.6 | 29 |
| 75 | Effect of side chain hydrophobicity and cationic charge on antimicrobial activity and cytotoxicity of helical peptoids. *Bioorganic and Medicinal Chemistry Letters*, **2018**, 28, 170-173 | 2.9 | 29 |
| 74 | Intracellular biomass flocculation as a key mechanism of rapid bacterial killing by cationic, amphipathic antimicrobial peptides and peptoids. *Scientific Reports*, **2017**, 7, 16718 | 4.9 | 27 |
| 73 | Protein and peptide biomimicry: Gold-mining inspiration from Nature's ingenuity. *AICHE Journal*, **2008**, 54, 2-8 | 3.6 | 27 |
| 72 | Evidence that the Human Innate Immune Peptide LL-37 may be a Binding Partner of Amyloid-β and Inhibitor of Fibril Assembly. *Journal of Alzheimer's Disease*, **2017**, 59, 1213-1226 | 4.3 | 27 |
| 71 | No evidence of pathogenic involvement of cathelicidins in patient cohorts and mouse models of lupus and arthritis. *PLoS ONE*, **2014**, 9, e115474 | 3.7 | 26 |
| 70 | Capillary Electrophoretic Separation of DNA Restriction Fragments in Mixtures of Low- and High-Molecular-Weight Hydroxyethylcellulose. *Industrial & Engineering Chemistry Research*, **1996**, 35, 2900-2908 | 3.9 | 26 |
| 69 | Periprosthetic bacterial biofilm and quorum sensing. *Journal of Orthopaedic Research*, **2018**, 36, 2331-2338 | 3.8 | 26 |
| 68 | A 265-base DNA sequencing read by capillary electrophoresis with no separation matrix. *Analytical Chemistry*, **2011**, 83, 509-15 | 7.8 | 25 |
| 67 | Free-solution electrophoresis of DNA modified with drag-tags at both ends. *Electrophoresis*, **2006**, 27, 1702-12 | 3.6 | 25 |
| 66 | An optimized microchip electrophoresis system for mutation detection by tandem SSCP and heteroduplex analysis for p53 gene exons 5-9. *Electrophoresis*, **2006**, 27, 3823-35 | 3.6 | 24 |
| 65 | The use of light scattering for precise characterization of polymers for DNA sequencing by capillary electrophoresis. *Electrophoresis*, **2001**, 22, 4118-28 | 3.6 | 24 |
| 64 | Close mimicry of lung surfactant protein B by "clicked" dimers of helical, cationic peptoids. *Biopolymers*, **2009**, 92, 538-53 | 2.2 | 23 |
| 63 | Multiplexed p53 mutation detection by free-solution conjugate microchannel electrophoresis with polyamide drag-tags. *Analytical Chemistry*, **2007**, 79, 1848-54 | 7.8 | 23 |
| 62 | Purification of HIV RNA from serum using a polymer capture matrix in a microfluidic device. *Analytical Chemistry*, **2011**, 83, 982-8 | 7.8 | 22 |
| 61 | Sparsely cross-linked "nanogels" for microchannel DNA sequencing. *Electrophoresis*, **2003**, 24, 4170-80 | 3.6 | 22 |
| 60 | Profiling solid-phase synthesis products by free-solution conjugate capillary electrophoresis. *Bioconjugate Chemistry*, **2002**, 13, 663-70 | 6.3 | 22 |
| 59 | Lipid composition greatly affects the in vitro surface activity of lung surfactant protein mimics. *Colloids and Surfaces B: Biointerfaces*, **2007**, 57, 37-55 | 6 | 21 |

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| 58 | Protein polymer MRI contrast agents: Longitudinal analysis of biomaterials in vivo. *Magnetic Resonance in Medicine*, **2011**, 65, 220-8 | 4.4 | 20 |
| 57 | Engineering surfaces for substrate-mediated gene delivery using recombinant proteins. *Biomacromolecules*, **2009**, 10, 2779-86 | 6.9 | 20 |
| 56 | Ligase detection reaction for the analysis of point mutations using free-solution conjugate electrophoresis in a polymer microfluidic device. *Electrophoresis*, **2008**, 29, 4751-60 | 3.6 | 20 |
| 55 | Effective in vivo treatment of acute lung injury with helical, amphipathic peptoid mimics of pulmonary surfactant proteins. *Scientific Reports*, **2018**, 8, 6795 | 4.9 | 19 |
| 54 | Self-associating block copolymer networks for microchip electrophoresis provide enhanced DNA separation via "inchworm" chain dynamics. *Analytical Chemistry*, **2006**, 78, 4409-15 | 7.8 | 19 |
| 53 | Versatile Oligo(N-Substituted) Glycines: The Many Roles of Peptoids in Drug Discovery **2005**, 1-31 | | 19 |
| 52 | Peptoid transporters: effects of cationic, amphipathic structure on their cellular uptake. *Molecular BioSystems*, **2012**, 8, 2626-8 | | 18 |
| 51 | Non-ionic, thermo-responsive DEA/DMA nanogels: synthesis, characterization, and use for DNA separations by microchip electrophoresis. *Journal of Colloid and Interface Science*, **2011**, 357, 345-53 | 9.3 | 18 |
| 50 | Biomimetic N-terminal alkylation of peptoid analogues of surfactant protein C. *Biophysical Journal*, **2011**, 101, 1076-85 | 2.9 | 17 |
| 49 | Polymer systems designed specifically for DNA sequencing by microchip electrophoresis: a comparison with commercially available materials. *Electrophoresis*, **2008**, 29, 4652-62 | 3.6 | 17 |
| 48 | A novel thermogelling matrix for microchannel DNA sequencing based on poly-N-alkoxyalkylacrylamide copolymers. *Electrophoresis*, **2003**, 24, 4161-9 | 3.6 | 17 |
| 47 | The Human Host-Defense Peptide Cathelicidin LL-37 is a Nanomolar Inhibitor of Amyloid Self-Assembly of Islet Amyloid Polypeptide (IAPP). *Angewandte Chemie - International Edition*, **2020**, 59, 12837-12841 | 16.4 | 17 |
| 46 | DNA migration mechanism analyses for applications in capillary and microchip electrophoresis. *Electrophoresis*, **2009**, 30, 2014-24 | 3.6 | 16 |
| 45 | A readily applicable strategy to convert peptides to peptoid-based therapeutics. *PLoS ONE*, **2013**, 8, e58874 | 3.7 | 16 |
| 44 | Size-based protein separations by microchip electrophoresis using an acid-labile surfactant as a replacement for SDS. *Electrophoresis*, **2009**, 30, 2117-22 | 3.6 | 15 |
| 43 | Peptide-mediated lipofection is governed by lipoplex physical properties and the density of surface-displayed amines. *Journal of Pharmaceutical Sciences*, **2008**, 97, 4794-806 | 3.9 | 15 |
| 42 | Optimized sample preparation for tandem capillary electrophoresis single-stranded conformational polymorphism/ heteroduplex analysis. *BioTechniques*, **2002**, 33, 318-20, 322, 324-5 | 2.5 | 15 |
| 41 | Optical monitoring of bubble size and shape in a pulsating bubble surfactometer. *Journal of Applied Physiology*, **2005**, 99, 624-33 | 3.7 | 15 |

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| 40 | Halogenation as a tool to tune antimicrobial activity of peptoids. *Scientific Reports*, **2020**, 10, 14805 | 4.9 | 15 |
| 39 | Prostate tumor specific peptide-peptoid hybrid prodrugs. *Bioorganic and Medicinal Chemistry Letters*, **2015**, 25, 2849-52 | 2.9 | 14 |
| 38 | Mimicking SP-C palmitoylation on a peptoid-based SP-B analogue markedly improves surface activity. *Biochimica Et Biophysica Acta - Biomembranes*, **2010**, 1798, 1663-78 | 3.8 | 14 |
| 37 | Characterization of glutamine deamidation in a long, repetitive protein polymer via bioconjugate capillary electrophoresis. *Biomacromolecules*, **2004**, 5, 618-27 | 6.9 | 14 |
| 36 | Microfabricated devices for biomolecule encapsulation. *Electrophoresis*, **2012**, 33, 2639-49 | 3.6 | 13 |
| 35 | Simultaneous detection of 19 K-ras mutations by free-solution conjugate electrophoresis of ligase detection reaction products on glass microchips. *Electrophoresis*, **2013**, 34, 590-7 | 3.6 | 13 |
| 34 | Ultrafast, efficient separations of large-sized dsDNA in a blended polymer matrix by microfluidic chip electrophoresis: a design of experiments approach. *Electrophoresis*, **2011**, 32, 3233-40 | 3.6 | 13 |
| 33 | Capillary electrophoresis of DNA in uncrosslinked polymer solutions: evidence for a new mechanism of DNA separation. *Biotechnology and Bioengineering*, **1996**, 52, 259-70 | 4.9 | 13 |
| 32 | Progress in the de novo design of structured peptoid protein mimics. *Biopolymers*, **2011**, 96, 556-60 | 2.2 | 12 |
| 31 | Stochastic single-molecule videomicroscopy methods to measure electrophoretic DNA migration modalities in polymer solutions above and below entanglement. *Analytical Chemistry*, **2007**, 79, 7740-7 | 7.8 | 12 |
| 30 | Hydrophobically modified polyacrylamide block copolymers for fast, high-resolution DNA sequencing in microfluidic chips. *Electrophoresis*, **2008**, 29, 4669-76 | 3.6 | 12 |
| 29 | A fluorescence polarization assay using an engineered human respiratory syncytial virus F protein as a direct screening platform. *Analytical Biochemistry*, **2011**, 409, 195-201 | 3.1 | 11 |
| 28 | Potent Antiviral Activity against HSV-1 and SARS-CoV-2 by Antimicrobial Peptoids. *Pharmaceuticals*, **2021**, 14, | 5.2 | 11 |
| 27 | Targeting Infectious Agents as a Therapeutic Strategy in Alzheimer's Disease. *CNS Drugs*, **2020**, 34, 673-695 | 6.7 | 10 |
| 26 | DNA sequencing by microchip electrophoresis using mixtures of high- and low-molar mass poly(N,N-dimethylacrylamide) matrices. *Electrophoresis*, **2008**, 29, 4663-8 | 3.6 | 10 |
| 25 | NMEGylation: a novel modification to enhance the bioavailability of therapeutic peptides. *Biopolymers*, **2011**, 96, 688-93 | 2.2 | 9 |
| 24 | A chemically synthesized peptoid-based drag-tag enhances free-solution DNA sequencing by capillary electrophoresis. *Biopolymers*, **2011**, 96, 702-7 | 2.2 | 9 |
| 23 | Completely monodisperse, highly repetitive proteins for bioconjugate capillary electrophoresis: development and characterization. *Biomacromolecules*, **2011**, 12, 2275-84 | 6.9 | 9 |

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|---|---|---|---|
| 22 | Encapsulation of protein microfiber networks supporting pancreatic islets. *Journal of Biomedical Materials Research - Part A*, **2012**, 100, 3384-91 | 5.4 | 8 |
| 21 | A Four-Arm Star-Shaped Poly(ethylene glycol) (StarPEG) Platform for Bombesin Peptide Delivery to Gastrin-Releasing Peptide Receptors in Prostate Cancer. *ACS Macro Letters*, **2012**, 1, 753-757 | 6.6 | 7 |
| 20 | Divergent dispersion behavior of ssDNA fragments during microchip electrophoresis in pDMA and LPA entangled polymer networks. *Electrophoresis*, **2012**, 33, 1411-20 | 3.6 | 7 |
| 19 | Protein polymer hydrogels: effects of endotoxin on biocompatibility. *Journal of Biomaterials Applications*, **2013**, 28, 395-406 | 2.9 | 7 |
| 18 | Blinded study determination of high sensitivity and specificity microchip electrophoresis-SSCP/HA to detect mutations in the p53 gene. *Electrophoresis*, **2011**, 32, 2921-9 | 3.6 | 7 |
| 17 | Quantitative experimental determination of primer-dimer formation risk by free-solution conjugate electrophoresis. *Electrophoresis*, **2012**, 33, 483-91 | 3.6 | 6 |
| 16 | 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. *Electrophoresis*, **2011**, 32, 1201-8 | 3.6 | 6 |
| 15 | Self-Assembly of Antimicrobial Peptoids Impacts Their Biological Effects on Bacterial Pathogens.. *ACS Infectious Diseases*, **2022**, | 5.5 | 6 |
| 14 | Thermoresponsive N-alkoxyalkylacrylamide polymers as a sieving matrix for high-resolution DNA separations on a microfluidic chip. *Electrophoresis*, **2008**, 29, 4677-83 | 3.6 | 5 |
| 13 | Targeting Impaired Antimicrobial Immunity in the Brain for the Treatment of Alzheimer's Disease. *Neuropsychiatric Disease and Treatment*, **2021**, 17, 1311-1339 | 3.1 | 5 |
| 12 | Synthesis and assembly of functional high molecular weight adiponectin multimers in an engineered strain of Escherichia coli. *Biomacromolecules*, **2012**, 13, 1035-42 | 6.9 | 4 |
| 11 | Helical side chain chemistry of a peptoid-based SP-C analogue: Balancing structural rigidity and biomimicry. *Biopolymers*, **2019**, 110, e23277 | 2.2 | 3 |
| 10 | Monodisperse, "highly" positively charged protein polymer drag-tags generated in an intein-mediated purification system used in free-solution electrophoretic separations of DNA. *Biomacromolecules*, **2012**, 13, 117-23 | 6.9 | 2 |
| 9 | Evidence that the Human Innate Immune Peptide LL-37 May Be a Binding Partner of Abeta and Inhibitor of Fibril Assembly. *Biophysical Journal*, **2018**, 114, 393a | 2.9 | 2 |
| 8 | Optimizing Exogenous Surfactant as a Pulmonary Delivery Vehicle for Chicken Cathelicidin-2. *Scientific Reports*, **2020**, 10, 9392 | 4.9 | 1 |
| 7 | 1072 INHIBITION OF BLADDER CANCER CELL GROWTH BY TREATMENT WITH SYNTHETICALLY DERIVED ANTI-CANCER PEPTOIDS. *Journal of Urology*, **2012**, 187, | 2.5 | 1 |
| 6 | Biophysical Mechanisms of Host Defense Peptide (HDP) Toxicity as Revealed by a Study of Peptoid Mimics of HDPs. *FASEB Journal*, **2011**, 25, 206.2 | 0.9 | 1 |
| 5 | Hyperactivation of monocytes and macrophages in MCI patients contributes to the progression of Alzheimer's disease. *Immunity and Ageing*, **2021**, 18, 29 | 9.7 | 1 |

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| 4 | Microchip-Based Sanger Sequencing of DNA153-163 | | 1 |
| 3 | Efficacy of Cathelicidin-Mimetic Antimicrobial Peptoids against Staphylococcus aureus.. *Microbiology Spectrum*, **2022**, e0053422 | 8.9 | 1 |
| 2 | Das humane Wirtsabwehrpeptid Cathelicidin LL-37 ist ein nanomolarer Inhibitor der amyloiden Selbstassoziation von Inselamyloid-Polypeptid (IAPP). *Angewandte Chemie*, **2020**, 132, 12937-12941 | 3.6 | 0 |
| 1 | Broad-spectrum CRISPR-mediated inhibition of SARS-CoV-2 variants and endemic coronaviruses in vitro.. *Nature Communications*, **2022**, 13, 2766 | 17.4 | 0 |