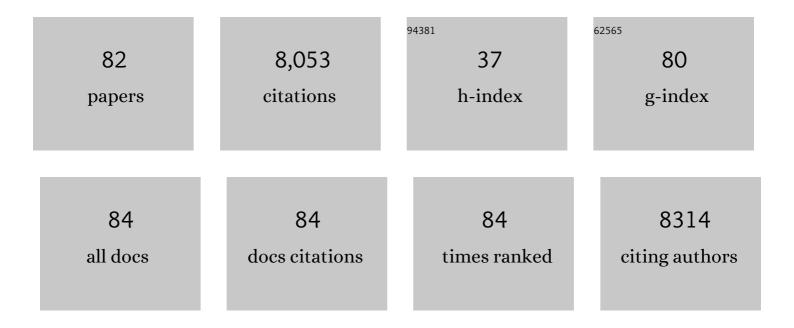
List of Publications by Year in descending order

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FLIZABETH M NOLAN

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Tools and Tactics for the Optical Detection of Mercuric Ion. Chemical Reviews, 2008, 108, 3443-3480. | 23.0 | 2,188 |
| 2 | A "Turn-On―Fluorescent Sensor for the Selective Detection of Mercuric Ion in Aqueous Media. Journal of the American Chemical Society, 2003, 125, 14270-14271. | 6.6 | 625 |
| 3 | Small-Molecule Fluorescent Sensors for Investigating Zinc Metalloneurochemistry. Accounts of Chemical Research, 2009, 42, 193-203. | 7.6 | 587 |
| 4 | Turn-On and Ratiometric Mercury Sensing in Water with a Red-Emitting Probe. Journal of the American Chemical Society, 2007, 129, 5910-5918. | 6.6 | 412 |
| 5 | Beyond iron: non-classical biological functions of bacterial siderophores. Dalton Transactions, 2015, 44, 6320-6339. | 1.6 | 332 |
| 6 | QZ1 and QZ2:Â Rapid, Reversible Quinoline-Derivatized Fluoresceins for Sensing Biological Zn(II). Journal of the American Chemical Society, 2005, 127, 16812-16823. | 6.6 | 251 |
| 7 | Zinspy Sensors with Enhanced Dynamic Range for Imaging Neuronal Cell Zinc Uptake and Mobilization. Journal of the American Chemical Society, 2006, 128, 15517-15528. | 6.6 | 232 |
| 8 | Human calprotectin is an iron-sequestering host-defense protein. Nature Chemical Biology, 2015, 11, 765-771. | 3.9 | 218 |
| 9 | Selective Hg(II) Detection in Aqueous Solution with Thiol Derivatized Fluoresceins. Inorganic Chemistry, 2006, 45, 2742-2749. | 1.9 | 162 |
| 10 | Calcium Ion Gradients Modulate the Zinc Affinity and Antibacterial Activity of Human Calprotectin. Journal of the American Chemical Society, 2012, 134, 18089-18100. | 6.6 | 146 |
| 11 | Membrane anchoring stabilizes and favors secretion of New Delhi metallo-β-lactamase. Nature Chemical Biology, 2016, 12, 516-522. | 3.9 | 138 |
| 12 | Transition Metal Sequestration by the Host-Defense Protein Calprotectin. Annual Review of Biochemistry, 2018, 87, 621-643. | 5.0 | 138 |
| 13 | Synthesis and Characterization of Zinc Sensors Based on a Monosubstituted Fluorescein Platform. Inorganic Chemistry, 2004, 43, 2624-2635. | 1.9 | 132 |
| 14 | Enterobactin-Mediated Delivery of β-Lactam Antibiotics Enhances Antibacterial Activity against Pathogenic <i>Escherichia coli</i> . Journal of the American Chemical Society, 2014, 136, 9677-9691. | 6.6 | 129 |
| 15 | High-Affinity Manganese Coordination by Human Calprotectin Is Calcium-Dependent and Requires the Histidine-Rich Site Formed at the Dimer Interface. Journal of the American Chemical Society, 2013, 135, 775-787. | 6.6 | 121 |
| 16 | The Zinspy Family of Fluorescent Zinc Sensors:Â Syntheses and Spectroscopic Investigations. Inorganic Chemistry, 2004, 43, 8310-8317. | 1.9 | 106 |
| 17 | MS4, a seminaphthofluorescein-based chemosensor for the ratiometric detection of Hg(ii). Journal of Materials Chemistry, 2005, 15, 2778. | 6.7 | 103 |
| 18 | Esterase-Catalyzed Siderophore Hydrolysis Activates an Enterobactin–Ciprofloxacin Conjugate and Confers Targeted Antibacterial Activity. Journal of the American Chemical Society, 2018, 140, 5193-5201. | 6.6 | 101 |

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|----|---|-----|-----------|
| 19 | Nickel Sequestration by the Host-Defense Protein Human Calprotectin. Journal of the American Chemical Society, 2017, 139, 8828-8836. | 6.6 | 99 |
| 20 | Siderophore-Mediated Cargo Delivery to the Cytoplasm of <i>Escherichia coli</i> and <i>Pseudomonas aeruginosa</i> : Syntheses of Monofunctionalized Enterobactin Scaffolds and Evaluation of Enterobactin–Cargo Conjugate Uptake. Journal of the American Chemical Society, 2012, 134, 18388-18400. | 6.6 | 92 |
| 21 | Defensins, lectins, mucins, and secretory immunoglobulin A: microbe-binding biomolecules that contribute to mucosal immunity in the human gut. Critical Reviews in Biochemistry and Molecular Biology, 2017, 52, 45-56. | 2.3 | 84 |
| 22 | Visualizing Attack of <i>Escherichia coli</i> by the Antimicrobial Peptide Human Defensin 5. Biochemistry, 2015, 54, 1767-1777. | 1.2 | 80 |
| 23 | Molecular Basis for Self-Assembly of a Human Host-Defense Peptide That Entraps Bacterial Pathogens. Journal of the American Chemical Society, 2014, 136, 13267-13276. | 6.6 | 79 |
| 24 | Manganese and Microbial Pathogenesis: Sequestration by the Mammalian Immune System and Utilization by Microorganisms. ACS Chemical Biology, 2015, 10, 641-651. | 1.6 | 78 |
| 25 | Contributions of the S100A9 C-Terminal Tail to High-Affinity Mn(II) Chelation by the Host-Defense Protein Human Calprotectin. Journal of the American Chemical Society, 2013, 135, 17804-17817. | 6.6 | 71 |
| 26 | Targeting virulence: salmochelin modification tunes the antibacterial activity spectrum of β-lactams for pathogen-selective killing of Escherichia coli. Chemical Science, 2015, 6, 4458-4471. | 3.7 | 67 |
| 27 | Midrange Affinity Fluorescent Zn(II) Sensors of the Zinpyr Family:Â Syntheses, Characterization, and Biological Imaging Applications. Inorganic Chemistry, 2006, 45, 9748-9757. | 1.9 | 66 |
| 28 | Manganese Binding Properties of Human Calprotectin under Conditions of High and Low Calcium: X-ray Crystallographic and Advanced Electron Paramagnetic Resonance Spectroscopic Analysis. Journal of the American Chemical Society, 2015, 137, 3004-3016. | 6.6 | 65 |
| 29 | The human innate immune protein calprotectin induces iron starvation responses in Pseudomonas aeruginosa. Journal of Biological Chemistry, 2019, 294, 3549-3562. | 1.6 | 61 |
| 30 | Human Defensin 5 Disulfide Array Mutants: Disulfide Bond Deletion Attenuates Antibacterial Activity against <i>Staphylococcus aureus</i> . Biochemistry, 2011, 50, 8005-8017. | 1.2 | 57 |
| 31 | Calcium ions tune the zinc-sequestering properties and antimicrobial activity of human S100A12. Chemical Science, 2016, 7, 1338-1348. | 3.7 | 57 |
| 32 | Human α-Defensin 6: A Small Peptide That Self-Assembles and Protects the Host by Entangling Microbes. Accounts of Chemical Research, 2017, 50, 960-967. | 7.6 | 57 |
| 33 | Siderophore-based immunization strategy to inhibit growth of enteric pathogens. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13462-13467. | 3.3 | 56 |
| 34 | The Hexahistidine Motif of Host-Defense Protein Human Calprotectin Contributes to Zinc Withholding and Its Functional Versatility. Journal of the American Chemical Society, 2016, 138, 12243-12251. | 6.6 | 47 |
| 35 | Calcium-induced tetramerization and zinc chelation shield human calprotectin from degradation by host and bacterial extracellular proteases. Chemical Science, 2016, 7, 1962-1975. | 3.7 | 44 |
| 36 | Reduction of Human Defensin 5 Affords a High-Affinity Zinc-Chelating Peptide. ACS Chemical Biology, 2013, 8, 1907-1911. | 1.6 | 41 |

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| 37 | Evaluation of a reducible disulfide linker for siderophore-mediated delivery of antibiotics. Journal of Biological Inorganic Chemistry, 2018, 23, 1025-1036. | 1.1 | 40 |
| 38 | Disulfide cross-linking influences symbiotic activities of nodule peptide NCR247. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 10157-10162. | 3.3 | 35 |
| 39 | Chemical Synthesis of Staphyloferrin B Affords Insight into the Molecular Structure, Iron Chelation, and Biological Activity of a Polycarboxylate Siderophore Deployed by the Human Pathogen <i>Staphylococcus aureus</i> . Journal of the American Chemical Society, 2015, 137, 9117-9127. | 6.6 | 33 |
| 40 | Metal homeostasis in infectious disease: recent advances in bacterial metallophores and the human metal-withholding response. Current Opinion in Chemical Biology, 2017, 37, 10-18. | 2.8 | 33 |
| 41 | Evaluation of (acyloxy)alkyl ester linkers for antibiotic release from siderophore–antibiotic conjugates. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 4987-4991. | 1.0 | 32 |
| 42 | Proteolysis triggers self-assembly and unmasks innate immune function of a human α-defensin peptide. Chemical Science, 2016, 7, 1738-1752. | 3.7 | 31 |
| 43 | Heavy-Metal Trojan Horse: Enterobactin-Directed Delivery of Platinum(IV) Prodrugs to <i>Escherichia coli</i> . Journal of the American Chemical Society, 2022, 144, 12756-12768. | 6.6 | 26 |
| 44 | Human α-Defensin 6 Self-Assembly Prevents Adhesion and Suppresses Virulence Traits of <i>Candida albicans</i> . Biochemistry, 2017, 56, 1033-1041. | 1.2 | 25 |
| 45 | Biochemical and Functional Evaluation of the Intramolecular Disulfide Bonds in the Zinc-Chelating Antimicrobial Protein Human S100A7 (Psoriasin). Biochemistry, 2017, 56, 5726-5738. | 1.2 | 25 |
| 46 | Transition metals at the host–pathogen interface: how <i>Neisseria</i> exploit human metalloproteins for acquiring iron and zinc. Essays in Biochemistry, 2017, 61, 211-223. | 2.1 | 24 |
| 47 | Human calprotectin affects the redox speciation of iron. Metallomics, 2017, 9, 1086-1095. | 1.0 | 23 |
| 48 | Determination of the Molecular Structures of Ferric Enterobactin and Ferric Enantioenterobactin Using Racemic Crystallography. Journal of the American Chemical Society, 2017, 139, 15245-15250. | 6.6 | 22 |
| 49 | Magnetic circular dichroism studies of iron(<scp>ii</scp>) binding to human calprotectin. Chemical Science, 2017, 8, 1369-1377. | 3.7 | 22 |
| 50 | Bioinorganic Explorations of Zn(II) Sequestration by Human S100 Host-Defense Proteins. Biochemistry, 2018, 57, 1673-1680. | 1.2 | 21 |
| 51 | Oxidative Post-translational Modifications Accelerate Proteolytic Degradation of Calprotectin. Journal of the American Chemical Society, 2018, 140, 17444-17455. | 6.6 | 20 |
| 52 | Metal Sequestration and Antimicrobial Activity of Human Calprotectin Are pH-Dependent. Biochemistry, 2020, 59, 2468-2478. | 1.2 | 20 |
| 53 | A Method for Selective Depletion of Zn(II) Ions from Complex Biological Media and Evaluation of Cellular Consequences of Zn(II) Deficiency. Journal of the American Chemical Society, 2018, 140, 2413-2416. | 6.6 | 19 |
| 54 | Biochemical and Spectroscopic Observation of Mn(II) Sequestration from Bacterial Mn(II) Transport Machinery by Calprotectin. Journal of the American Chemical Society, 2018, 140, 110-113. | 6.6 | 19 |

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|----|--|-----|-----------|
| 55 | Exploring Iron Withholding by the Innate Immune Protein Human Calprotectin. Accounts of Chemical Research, 2019, 52, 2301-2308. | 7.6 | 18 |
| 56 | Enterobactin- and salmochelin-Î ² -lactam conjugates induce cell morphologies consistent with inhibition of penicillin-binding proteins in uropathogenic <i>Escherichia coli</i> CFT073. Chemical Science, 2021, 12, 4041-4056. | 3.7 | 18 |
| 57 | Conjugation to Enterobactin and Salmochelin S4 Enhances the Antimicrobial Activity and Selectivity of β-Lactam Antibiotics against Nontyphoidal <i>Salmonella</i> . ACS Infectious Diseases, 2021, 7, 1248-1259. | 1.8 | 17 |
| 58 | Harnessing Iron Acquisition Machinery to Target <i>Enterobacteriaceae</i> . Journal of Infectious Diseases, 2021, 223, S307-S313. | 1.9 | 16 |
| 59 | Heme protects Pseudomonas aeruginosa and Staphylococcus aureus from calprotectin-induced iron starvation. Journal of Biological Chemistry, 2021, 296, 100160. | 1.6 | 16 |
| 60 | Initial Biochemical and Functional Evaluation of Murine Calprotectin Reveals Ca(II)-Dependence and Its Ability to Chelate Multiple Nutrient Transition Metal Ions. Biochemistry, 2018, 57, 2846-2856. | 1.2 | 15 |
| 61 | Biophysical Examination of the Calcium-Modulated Nickel-Binding Properties of Human Calprotectin Reveals Conformational Change in the EF-Hand Domains and His ₃ Asp Site. Biochemistry, 2018, 57, 4155-4164. | 1.2 | 13 |
| 62 | The Pneumococcal Iron Uptake Protein A (PiuA) Specifically Recognizes Tetradentate FeIIIbis- and Mono-Catechol Complexes. Journal of Molecular Biology, 2020, 432, 5390-5410. | 2.0 | 13 |
| 63 | Calcium Binding to the Innate Immune Protein Human Calprotectin Revealed by Integrated Mass Spectrometry. Journal of the American Chemical Society, 2020, 142, 13372-13383. | 6.6 | 13 |
| 64 | A Bacterial Mutant Library as a Tool to Study the Attack of a Defensin Peptide. ChemBioChem, 2014, 15, 2684-2688. | 1.3 | 11 |
| 65 | Murine Calprotectin Coordinates Mn(II) at a Hexahistidine Site with Ca(II)-Dependent Affinity. Inorganic Chemistry, 2019, 58, 13578-13590. | 1.9 | 11 |
| 66 | Impaired cholecystokinin-induced gallbladder emptying incriminated in spontaneous "black―pigment gallstone formation in germfree Swiss Webster mice. American Journal of Physiology - Renal Physiology, 2015, 308, G335-G349. | 1.6 | 10 |
| 67 | Calprotectin influences the aggregation of metal-free and metal-bound amyloid-β by direct interaction. Metallomics, 2018, 10, 1116-1127. | 1.0 | 10 |
| 68 | The Human Innate Immune Protein Calprotectin Elicits a Multimetal Starvation Response in Pseudomonas aeruginosa. Microbiology Spectrum, 2021, 9, e0051921. | 1.2 | 10 |
| 69 | Avian MRP126 Restricts Microbial Growth through Ca(II)-Dependent Zn(II) Sequestration. Biochemistry, 2020, 59, 802-817. | 1.2 | 9 |
| 70 | Bacterial Responses to Iron Withholding by Calprotectin. Biochemistry, 2021, 60, 3337-3346. | 1.2 | 9 |
| 71 | A Noncanonical Role for Yersiniabactin in Bacterial Copper Acquisition. Biochemistry, 2017, 56, 6073-6074. | 1.2 | 7 |
| 72 | High-Field EPR Spectroscopic Characterization of Mn(II) Bound to the Bacterial Solute-Binding Proteins MntC and PsaA. Journal of Physical Chemistry B, 2019, 123, 4929-4934. | 1.2 | 7 |

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| 73 | Molecular Basis of Ca(II)-Induced Tetramerization and Transition-Metal Sequestration in Human Calprotectin. Journal of the American Chemical Society, 2021, 143, 18073-18090. | 6.6 | 7 |
| 74 | A metal shuttle keeps pathogens well fed. Science, 2016, 352, 1055-1056. | 6.0 | 6 |
| 75 | Design, solid-phase synthesis and evaluation of enterobactin analogs for iron delivery into the human pathogen Campylobacter jejuni. Bioorganic and Medicinal Chemistry, 2018, 26, 5314-5321. | 1.4 | 5 |
| 76 | Preparation and Iron Redox Speciation Study of the Fe(II)-Binding Antimicrobial Protein Calprotectin. Methods in Molecular Biology, 2019, 1929, 397-415. | 0.4 | 5 |
| 77 | Metal sequestration by S100 proteins in chemically diverse environments. Trends in Microbiology, 2022, 30, 654-664. | 3.5 | 5 |
| 78 | A Sensitive, Nonradioactive Assay for Zn(II) Uptake into Metazoan Cells. Biochemistry, 2018, 57, 6807-6815. | 1.2 | 4 |
| 79 | Zinc sequestration by human calprotectin facilitates manganese binding to the bacterial solute-binding proteins PsaA and MntC. Metallomics, 2022, 14, . | 1.0 | 4 |
| 80 | Preparation of the Oxidized and Reduced Forms of Psoriasin (S100A7). Methods in Molecular Biology, 2019, 1929, 379-395. | 0.4 | 1 |
| 81 | S100A12 promotes Mn(II) binding to pneumococcal PsaA and staphylococcal MntC by Zn(II) sequestration. Journal of Inorganic Biochemistry, 2022, , 111862. | 1.5 | 1 |
| 82 | Editorial overview: Bioinorganic chemistry: Recent advances in bioinorganic chemistry. Current Opinion in Chemical Biology, 2014, 19, vii-ix. | 2.8 | 0 |