List of Publications by Year in descending order

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| | | 53751 | 79644 |
|----------|--------------------|--------------|----------------|
| 121 | 6,442 | 45 | 73 |
| papers | 6,442 citations | h-index | g-index |
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| 133 | 133 | 133 | 5941 |
| all docs | docs citations | times ranked | citing authors |
| | | | |

ΙΔΝΙΔ SHEN

| # | Article | IF | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | Biofabrication with Chitosan. Biomacromolecules, 2005, 6, 2881-2894. | 2.6 | 667 |
| 2 | Voltage-Dependent Assembly of the Polysaccharide Chitosan onto an Electrode Surface. Langmuir, 2002, 18, 8620-8625. | 1.6 | 283 |
| 3 | Progress in the prediction of p <i>K</i> _a values in proteins. Proteins: Structure, Function and Bioinformatics, 2011, 79, 3260-3275. | 1.5 | 229 |
| 4 | Continuous Constant pH Molecular Dynamics in Explicit Solvent with pH-Based Replica Exchange. Journal of Chemical Theory and Computation, 2011, 7, 2617-2629. | 2.3 | 182 |
| 5 | In situ quantitative visualization and characterization of chitosan electrodeposition with paired sidewall electrodes. Soft Matter, 2010, 6, 3177. | 1.2 | 150 |
| 6 | Electroaddressing of Cell Populations by Coâ€Đeposition with Calcium Alginate Hydrogels. Advanced Functional Materials, 2009, 19, 2074-2080. | 7.8 | 115 |
| 7 | Spatially Selective Deposition of a Reactive Polysaccharide Layer onto a Patterned Template. Langmuir, 2003, 19, 519-524. | 1.6 | 111 |
| 8 | Biomimetic Approach to Confer Redox Activity to Thin Chitosan Films. Advanced Functional Materials, 2010, 20, 2683-2694. | 7.8 | 109 |
| 9 | Mechanism of anodic electrodeposition of calcium alginate. Soft Matter, 2011, 7, 5677. | 1.2 | 103 |
| 10 | Recent development and application of constant pH molecular dynamics. Molecular Simulation, 2014, 40, 830-838. | 0.9 | 102 |
| 11 | All-Atom Continuous Constant pH Molecular Dynamics With Particle Mesh Ewald and Titratable Water. Journal of Chemical Theory and Computation, 2016, 12, 5411-5421. | 2.3 | 101 |
| 12 | Biofabrication to build the biology–device interface. Biofabrication, 2010, 2, 022002. | 3.7 | 94 |
| 13 | Mechanism of pH-dependent activation of the sodium-proton antiporter NhaA. Nature Communications, 2016, 7, 12940. | 5.8 | 90 |
| 14 | pH-Responsive Self-Assembly of Polysaccharide through a Rugged Energy Landscape. Journal of the American Chemical Society, 2015, 137, 13024-13030. | 6.6 | 89 |
| 15 | Chitosan to Connect Biology to Electronics: Fabricating the Bio-Device Interface and Communicating Across This Interface. Polymers, 2015, 7, 1-46. | 2.0 | 87 |
| 16 | Charge-leveling and proper treatment of long-range electrostatics in all-atom molecular dynamics at constant pH. Journal of Chemical Physics, 2012, 137, 184105. | 1.2 | 86 |
| 17 | Amplified and in Situ Detection of Redox-Active Metabolite Using a Biobased Redox Capacitor. Analytical Chemistry, 2013, 85, 2102-2108. | 3.2 | 86 |
| 18 | Electrodeposition of a Biopolymeric Hydrogel: Potential for One-Step Protein Electroaddressing. Biomacromolecules, 2012, 13, 1181-1189. | 2.6 | 82 |

| # | Article | IF | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Assessing Lysine and Cysteine Reactivities for Designing Targeted Covalent Kinase Inhibitors. Journal of the American Chemical Society, 2019, 141, 6553-6560. | 6.6 | 80 |
| 20 | Predicting pKa Values with Continuous Constant pH Molecular Dynamics. Methods in Enzymology, 2009, 466, 455-475. | 0.4 | 77 |
| 21 | Biofabrication: programmable assembly of polysaccharide hydrogels in microfluidics as biocompatible scaffolds. Journal of Materials Chemistry, 2012, 22, 7659. | 6.7 | 75 |
| 22 | Introducing Titratable Water to All-Atom Molecular Dynamics at ConstantÂpH. Biophysical Journal, 2013, 105, L15-L17. | 0.2 | 72 |
| 23 | pH-Dependent Population Shift Regulates BACE1 Activity and Inhibition. Journal of the American Chemical Society, 2015, 137, 9543-9546. | 6.6 | 72 |
| 24 | Redox-capacitor to connect electrochemistry to redox-biology. Analyst, The, 2014, 139, 32-43. | 1.7 | 71 |
| 25 | Chitosan-mediated in situ biomolecule assembly in completely packaged microfluidic devices. Lab on A Chip, 2006, 6, 1315. | 3.1 | 68 |
| 26 | Reverse Engineering Applied to Red Human Hair Pheomelanin Reveals Redox-Buffering as a Pro-Oxidant Mechanism. Scientific Reports, 2015, 5, 18447. | 1.6 | 67 |
| 27 | Coding for hydrogel organization through signal guided self-assembly. Soft Matter, 2014, 10, 465-469. | 1.2 | 66 |
| 28 | Redox Capacitor to Establish Bioâ€Đevice Redoxâ€Connectivity. Advanced Functional Materials, 2012, 22, 1409-1416. | 7.8 | 65 |
| 29 | A Robust Technique for Assembly of Nucleic Acid Hybridization Chips Based on Electrochemically Templated Chitosan. Analytical Chemistry, 2004, 76, 365-372. | 3.2 | 61 |
| 30 | Electroaddressing Functionalized Polysaccharides as Model Biofilms for Interrogating Cell Signaling. Advanced Functional Materials, 2012, 22, 519-528. | 7.8 | 61 |
| 31 | Electrodeposition of a weak polyelectrolyte hydrogel: remarkable effects of salt on kinetics, structure and properties. Soft Matter, 2013, 9, 2703. | 1.2 | 59 |
| 32 | Programmable Electrofabrication of Porous Janus Films with Tunable Janus Balance for Anisotropic Cell Guidance and Tissue Regeneration. Advanced Functional Materials, 2019, 29, 1900065. | 7.8 | 58 |
| 33 | Proton-Coupled Conformational Activation of SARS Coronavirus Main Proteases and Opportunity for Designing Small-Molecule Broad-Spectrum Targeted Covalent Inhibitors. Journal of the American Chemical Society, 2020, 142, 21883-21890. | 6.6 | 57 |
| 34 | How μ-opioid receptor recognizes fentanyl. Nature Communications, 2021, 12, 984. | 5.8 | 56 |
| 35 | Toward accurate prediction of p <i>K</i> _a values for internal protein residues: The importance of conformational relaxation and desolvation energy. Proteins: Structure, Function and Bioinformatics, 2011, 79, 3364-3373. | 1.5 | 54 |
| 36 | Biofabricating Multifunctional Soft Matter with Enzymes and Stimuliâ€Responsive Materials. Advanced Functional Materials, 2012, 22, 3004-3012. | 7.8 | 54 |

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| 37 | Constant pH Molecular Dynamics Reveals How Proton Release Drives the Conformational Transition of a Transmembrane Efflux Pump. Journal of Chemical Theory and Computation, 2017, 13, 6405-6414. | 2.3 | 54 |
| 38 | Redox-Cycling and H ₂ O ₂ Generation by Fabricated Catecholic Films in the Absence of Enzymes. Biomacromolecules, 2011, 12, 880-888. | 2.6 | 53 |
| 39 | Electronic modulation of biochemical signal generation. Nature Nanotechnology, 2014, 9, 605-610. | 15.6 | 52 |
| 40 | Mechanism of the pH-Controlled Self-Assembly of Nanofibers from Peptide Amphiphiles. Journal of Physical Chemistry C, 2014, 118, 16272-16278. | 1.5 | 52 |
| 41 | Conformational Activation of a Transmembrane Proton Channel from Constant pH Molecular Dynamics. Journal of Physical Chemistry Letters, 2016, 7, 3961-3966. | 2.1 | 52 |
| 42 | Biomimetic fabrication of information-rich phenolic-chitosan films. Soft Matter, 2011, 7, 9601. | 1.2 | 51 |
| 43 | Biospecific Selfâ€Assembly of a Nanoparticle Coating for Targeted and Stimuliâ€Responsive Drug Delivery. Advanced Functional Materials, 2015, 25, 1404-1417. | 7.8 | 50 |
| 44 | Electro-molecular Assembly: Electrical Writing of Information into an Erasable Polysaccharide Medium. ACS Applied Materials & Interfaces, 2016, 8, 19780-19786. | 4.0 | 49 |
| 45 | Constant pH Molecular Dynamics Reveals pH-Modulated Binding of Two Small-Molecule BACE1 Inhibitors. Journal of Physical Chemistry Letters, 2016, 7, 944-949. | 2.1 | 48 |
| 46 | Generalized Born Based Continuous Constant pH Molecular Dynamics in Amber: Implementation, Benchmarking and Analysis. Journal of Chemical Information and Modeling, 2018, 58, 1372-1383. | 2.5 | 48 |
| 47 | Compartmentalized Multilayer Hydrogel Formation Using a Stimulus-Responsive Self-Assembling Polysaccharide. ACS Applied Materials & Interfaces, 2014, 6, 2948-2957. | 4.0 | 47 |
| 48 | Reversible Programing of Soft Matter with Reconfigurable Mechanical Properties. Advanced Functional Materials, 2017, 27, 1605665. | 7.8 | 46 |
| 49 | Redox Probing for Chemical Information of Oxidative Stress. Analytical Chemistry, 2017, 89, 1583-1592. | 3.2 | 46 |
| 50 | Electrical Programming of Soft Matter: Using Temporally Varying Electrical Inputs To Spatially Control Self Assembly. Biomacromolecules, 2018, 19, 364-373. | 2.6 | 46 |
| 51 | GPU-Accelerated Implementation of Continuous Constant pH Molecular Dynamics in Amber: p <i>K</i> _a Predictions with Single-pH Simulations. Journal of Chemical Information and Modeling, 2019, 59, 4821-4832. | 2.5 | 46 |
| 52 | Assessment of proton-coupled conformational dynamics of SARS and MERS coronavirus papain-like proteases: Implication for designing broad-spectrum antiviral inhibitors. Journal of Chemical Physics, 2020, 153, 115101. | 1.2 | 46 |
| 53 | Atomistic simulations of pH-dependent self-assembly of micelle and bilayer from fatty acids. Journal of Chemical Physics, 2012, 137, 194902. | 1.2 | 45 |
| 54 | Thermodynamic Coupling of Protonation and Conformational Equilibria in Proteins: Theory and Simulation. Biophysical Journal, 2012, 102, 1590-1597. | 0.2 | 45 |

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|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 55 | Reverse Engineering To Suggest Biologically Relevant Redox Activities of Phenolic Materials. ACS Chemical Biology, 2013, 8, 716-724. | 1.6 | 44 |
| 56 | Electrochemical Measurement of the β-Galactosidase Reporter from Live Cells: A Comparison to the Miller Assay. ACS Synthetic Biology, 2016, 5, 28-35. | 1.9 | 44 |
| 57 | Using a Redox Modality to Connect Synthetic Biology to Electronics: Hydrogelâ€Based Chemoâ€Electro Signal Transduction for Molecular Communication. Advanced Healthcare Materials, 2017, 6, 1600908. | 3.9 | 44 |
| 58 | Reagentless Protein Assembly Triggered by Localized Electrical Signals. Advanced Materials, 2009, 21, 984-988. | 11.1 | 43 |
| 59 | Unraveling a Trap-and-Trigger Mechanism in the pH-Sensitive Self-Assembly of Spider Silk Proteins. Journal of Physical Chemistry Letters, 2012, 3, 658-662. | 2.1 | 43 |
| 60 | Electrobiofabrication: electrically based fabrication with biologically derived materials. Biofabrication, 2019, 11, 032002. | 3.7 | 43 |
| 61 | Reversible Electroaddressing of Selfâ€assembling Aminoâ€Acid Conjugates. Advanced Functional Materials, 2011, 21, 1575-1580. | 7.8 | 42 |
| 62 | Self-Assembly and Bilayer–Micelle Transition of Fatty Acids Studied by Replica-Exchange Constant pH Molecular Dynamics. Langmuir, 2013, 29, 14823-14830. | 1.6 | 42 |
| 63 | Connecting Biology to Electronics: Molecular Communication via Redox Modality. Advanced Healthcare Materials, 2017, 6, 1700789. | 3.9 | 40 |
| 64 | Redox Is a Global Biodevice Information Processing Modality. Proceedings of the IEEE, 2019, 107, 1402-1424. | 16.4 | 37 |
| 65 | Inâ€Film Bioprocessing and Immunoanalysis with Electroaddressable Stimuliâ€Responsive Polysaccharides. Advanced Functional Materials, 2010, 20, 1645-1652. | 7.8 | 36 |
| 66 | Redox cycling-based amplifying electrochemical sensor for in situ clozapine antipsychotic treatment monitoring. Electrochimica Acta, 2014, 130, 497-503. | 2.6 | 36 |
| 67 | Reverse Engineering To Characterize Redox Properties: Revealing Melanin's Redox Activity through Mediated Electrochemical Probing. Chemistry of Materials, 2018, 30, 5814-5826. | 3.2 | 36 |
| 68 | Toward Understanding the Environmental Control of Hydrogel Film Properties: How Salt Modulates the Flexibility of Chitosan Chains. Macromolecules, 2017, 50, 5946-5952. | 2.2 | 35 |
| 69 | Predicting Catalytic Proton Donors and Nucleophiles in Enzymes: How Adding Dynamics Helps Elucidate the Structure–Function Relationships. Journal of Physical Chemistry Letters, 2018, 9, 1179-1184. | 2.1 | 35 |
| 70 | Diarylcyclopentendione Metabolite Obtained from a <i>Preussia typharum</i> Isolate Procured Using an Unconventional Cultivation Approach. Journal of Natural Products, 2012, 75, 1819-1823. | 1.5 | 33 |
| 71 | Information processing through a bio-based redox capacitor: Signatures for redox-cycling. Bioelectrochemistry, 2014, 98, 94-102. | 2.4 | 33 |
| 72 | Nano-guided cell networks as conveyors of molecular communication. Nature Communications, 2015, 6, 8500. | 5.8 | 33 |

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| 73 | Electrochemical reverse engineering: A systems-level tool to probe the redox-based molecular communication of biology. Free Radical Biology and Medicine, 2017, 105, 110-131. | 1.3 | 32 |
| 74 | Proton-Coupled Conformational Allostery Modulates the Inhibitor Selectivity for β-Secretase. Journal of Physical Chemistry Letters, 2017, 8, 4832-4837. | 2.1 | 32 |
| 75 | Electrochemical Study of the Catechol-Modified Chitosan System for Clozapine Treatment Monitoring. Langmuir, 2014, 30, 14686-14693. | 1.6 | 31 |
| 76 | Electrochemical Fabrication of Functional Gelatin-Based Bioelectronic Interface. Biomacromolecules, 2016, 17, 558-563. | 2.6 | 31 |
| 77 | Accessing biology's toolbox for the mesoscale biofabrication of soft matter. Soft Matter, 2013, 9, 6019. | 1.2 | 30 |
| 78 | Electrofabrication of functional materials: Chloramine-based antimicrobial film for infectious wound treatment. Acta Biomaterialia, 2018, 73, 190-203. | 4.1 | 30 |
| 79 | How Electrostatic Coupling Enables Conformational Plasticity in a Tyrosine Kinase. Journal of the American Chemical Society, 2019, 141, 15092-15101. | 6.6 | 30 |
| 80 | Predicting Reactive Cysteines with Implicit-Solvent-Based Continuous Constant pH Molecular Dynamics in Amber. Journal of Chemical Theory and Computation, 2020, 16, 3689-3698. | 2.3 | 30 |
| 81 | How Ligand Protonation State Controls Water in Protein–Ligand Binding. Journal of Physical Chemistry Letters, 2018, 9, 5440-5444. | 2.1 | 29 |
| 82 | Uncovering Specific Electrostatic Interactions in the Denatured States of Proteins. Biophysical Journal, 2010, 99, 924-932. | 0.2 | 28 |
| 83 | Electroaddressing Agarose Using Fmoc-Phenylalanine as a Temporary Scaffold. Langmuir, 2011, 27, 7380-7384. | 1.6 | 28 |
| 84 | Electrochemical Probing through a Redox Capacitor To Acquire Chemical Information on Biothiols. Analytical Chemistry, 2016, 88, 7213-7221. | 3.2 | 27 |
| 85 | Electrical Writing onto a Dynamically Responsive Polysaccharide Medium: Patterning Structure and Function into a Reconfigurable Medium. Advanced Functional Materials, 2018, 28, 1803139. | 7.8 | 27 |
| 86 | Simulating pH Titration of a Single Surfactant in Ionic and Nonionic Surfactant Micelles. Journal of Physical Chemistry B, 2011, 115, 14980-14990. | 1.2 | 25 |
| 87 | Alternative proton-binding site and long-distance coupling in <i>Escherichia coli</i> sodium–proton antiporter NhaA. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 25517-25522. | 3.3 | 25 |
| 88 | Hierarchical patterning via dynamic sacrificial printing of stimuli-responsive hydrogels. Biofabrication, 2020, 12, 035007. | 3.7 | 25 |
| 89 | Conformational dynamics of cathepsin D and binding to a smallâ€molecule BACE1 inhibitor. Journal of Computational Chemistry, 2017, 38, 1260-1269. | 1.5 | 24 |
| 90 | Programmable "Semismart―Sensor: Relevance to Monitoring Antipsychotics. Advanced Functional Materials, 2015, 25, 2156-2165. | 7.8 | 23 |

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|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 91 | Catechol-Based Hydrogel for Chemical Information Processing. Biomimetics, 2017, 2, 11. | 1.5 | 21 |
| 92 | Kinetics and Mechanism of Fentanyl Dissociation from the \hat{l} 4-Opioid Receptor. Jacs Au, 2021, 1, 2208-2215. | 3.6 | 21 |
| 93 | Exploring pH-Responsive, Switchable Crosslinking Mechanisms for Programming Reconfigurable Hydrogels Based on Aminopolysaccharides. Chemistry of Materials, 2018, 30, 8597-8605. | 3.2 | 19 |
| 94 | Electronic structure properties of solvated biomolecules: A quantum approach for macromolecular characterization. Journal of Computational Chemistry, 2000, 21, 1562-1571. | 1.5 | 18 |
| 95 | Ligand-induced allostery in the interaction of the <i>Pseudomonas aeruginosa</i> heme binding protein with heme oxygenase. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 3421-3426. | 3.3 | 18 |
| 96 | Reactivities of the Front Pocket N-Terminal Cap Cysteines in Human Kinases. Journal of Medicinal Chemistry, 2022, 65, 1525-1535. | 2.9 | 18 |
| 97 | Enzymatic Writing to Soft Films: Potential to Filter, Store, and Analyze Biologically Relevant Chemical Information. Advanced Functional Materials, 2014, 24, 480-491. | 7.8 | 17 |
| 98 | An Electrochemical Micro-System for Clozapine Antipsychotic Treatment Monitoring. Electrochimica Acta, 2015, 163, 260-270. | 2.6 | 17 |
| 99 | Mediated Electrochemistry to Mimic Biology's Oxidative Assembly of Functional Matrices. Advanced Functional Materials, 2020, 30, 2001776. | 7.8 | 17 |
| 100 | Molecular dynamics simulations of ionic and nonionic surfactant micelles with a generalized born implicitâ \in solvent model. Journal of Computational Chemistry, 2011, 32, 2348-2358. | 1.5 | 16 |
| 101 | Conformational Dynamics of Two Natively Unfolded Fragment Peptides: Comparison of the AMBER and CHARMM Force Fields. Journal of Physical Chemistry B, 2015, 119, 7902-7910. | 1.2 | 16 |
| 102 | Fusing Sensor Paradigms to Acquire Chemical Information: An Integrative Role for Smart Biopolymeric Hydrogels. Advanced Healthcare Materials, 2016, 5, 2595-2616. | 3.9 | 16 |
| 103 | Electrochemistry for bio-device molecular communication: The potential to characterize, analyze and actuate biological systems. Nano Communication Networks, 2017, 11, 76-89. | 1.6 | 15 |
| 104 | Catechol-chitosan redox capacitor for added amplification in electrochemical immunoanalysis. Colloids and Surfaces B: Biointerfaces, 2018, 169, 470-477. | 2.5 | 15 |
| 105 | Electrical cuing of chitosan's mesoscale organization. Reactive and Functional Polymers, 2020, 148, 104492. | 2.0 | 15 |
| 106 | Coupling Self-Assembly Mechanisms to Fabricate Molecularly and Electrically Responsive Films. Biomacromolecules, 2019, 20, 969-978. | 2.6 | 14 |
| 107 | A Method To Determine Residue-Specific Unfolded-State p <i>K</i> _a Values from Analysis of Stability Changes in Single Mutant Cycles. Journal of the American Chemical Society, 2010, 132, 7258-7259. | 6.6 | 13 |
| 108 | Biofabricated Nanoparticle Coating for Liverâ€Cell Targeting. Advanced Healthcare Materials, 2015, 4, 1972-1981. | 3.9 | 13 |

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| 109 | Effects of system net charge and electrostatic truncation on all-atom constant pH molecular dynamics. Journal of Computational Chemistry, 2014, 35, 1986-1996. | 1.5 | 12 |
| 110 | Reversibly Reconfigurable Cross-Linking Induces Fusion of Separate Chitosan Hydrogel Films. ACS Applied Bio Materials, 2018, 1, 1695-1704. | 2.3 | 12 |
| 111 | Continuous Constant pH Molecular Dynamics Simulations of Transmembrane Proteins. Methods in Molecular Biology, 2021, 2302, 275-287. | 0.4 | 11 |
| 112 | Polyelectrolyte in Electric Field: Disparate Conformational Behavior along an Aminopolysaccharide Chain. ACS Omega, 2020, 5, 12016-12026. | 1.6 | 11 |
| 113 | Multidimensional Mapping Method Using an Arrayed Sensing System for Cross-Reactivity Screening. PLoS ONE, 2015, 10, e0116310. | 1.1 | 10 |
| 114 | pH-Dependent cooperativity and existence of a dry molten globule in the folding of a miniprotein BBL. Physical Chemistry Chemical Physics, 2018, 20, 3523-3530. | 1.3 | 10 |
| 115 | Profiling MAP kinase cysteines for targeted covalent inhibitor design. RSC Medicinal Chemistry, 2022, 13, 54-63. | 1.7 | 10 |
| 116 | Exploring the pH-Dependent Structure–Dynamics–Function Relationship of Human Renin. Journal of Chemical Information and Modeling, 2021, 61, 400-407. | 2.5 | 8 |
| 117 | Exploring the pH- and Ligand-Dependent Flap Dynamics of Malarial Plasmepsin II. Journal of Chemical Information and Modeling, 2022, 62, 150-158. | 2.5 | 8 |
| 118 | Catechol Patterned Film Enables the Enzymatic Detection of Glucose with Cell Phone Imaging. ACS Sustainable Chemistry and Engineering, 2021, 9, 14836-14845. | 3.2 | 7 |
| 119 | Nascent β -Hairpin Formation of a Natively Unfolded Peptide Reveals the Role of Hydrophobic Contacts. Biophysical Journal, 2015, 109, 630-638. | 0.2 | 6 |
| 120 | Nucleotide Dynamics at the A-Site Cleft in the Peptidyltransferase Center of <i>H. marismortui</i> 50S Ribosomal Subunits. Journal of Physical Chemistry Letters, 2012, 3, 1007-1010. | 2.1 | 5 |
| 121 | Zooming in on a small multidrug transporter reveals details of asymmetric protonation. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8060-8062. | 3.3 | 2 |