

BIOINORGANIC CHEMISTRY**Review Articles**

- Metallochaperones and metalloregulation in bacteria** 177–200
Daiana A. Capdevila, Katherine A. Edmonds and David P. Giedroc
- Ion channels and ion selectivity** 201–209
Benoît Roux
- Transition metals at the host–pathogen interface: how *Neisseria* exploit human metalloproteins for acquiring iron and zinc** 211–223
Wilma Neumann, Rose C. Hadley and Elizabeth M. Nolan
- The zinc paradigm for metalloneurochemistry** 225–235
Chelsea A. Barr and Shawn C. Burdette
- Native and engineered sensors for Ca²⁺ and Zn²⁺: lessons from calmodulin and MTF1** 237–243
Margaret C. Carpenter and Amy E. Palmer
- Repurposing proteins for new bioinorganic functions** 245–258
Lewis A. Churchfield, Athira George and F. Akif Tezcan
- Biological functions controlled by manganese redox changes in mononuclear Mn-dependent enzymes** 259–270
Wen Zhu and Nigel G.J. Richards
- Cluster assembly in nitrogenase** 271–279
Nathaniel S. Sickerman, Lee A. Rettberg, Chi Chung Lee, Yilin Hu and Markus W. Ribbe
- Long-range proton-coupled electron transfer in the *Escherichia coli* class Ia ribonucleotide reductase** 281–292
Steven Y. Reece and Mohammad R. Seyedsayamdost
- Quantum chemical approaches to [NiFe] hydrogenase** 293–303
Valerie Vaissier and Troy Van Voorhis