



Colorimetric and Fluorescent Chemosensors for Metal Ions

Guest Editors:

Dr. Mireille Vonlanthen

Instituto de Investigaciones en Materiales, Universidad Nacional Autónoma de México, Circuito Exterior, Ciudad Universitaria, México City CP 04510, Mexico

Dr. Fabián Cuétara-Guadarrama

Instituto de Investigaciones en Materiales, Universidad Nacional Autónoma de México, Circuito Exterior, Ciudad Universitaria, México City CP 04510, Mexico

Prof. Dr. Ernesto Rivera

Instituto de Investigaciones en Materiales, Universidad Nacional Autónoma de México, Circuito Exterior, Ciudad Universitaria, México City CP 04510, Mexico

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Message from the Guest Editors

Dear Colleagues,

Colorimetric as well as fluorescent chemosensors are powerful tools for the detection of trace amounts of metal ions by simple optical methods. For this purpose, chemosensors that are capable of signal transduction need to be developed. Chemosensors for metal ions are built from an ionophore and a chromophore linked together by a spacer. The key features in the development of chemosensors are the reversible and selective binding of the targeted metal ion to the ionophore and the switch between two different states in the optical properties of the chromophore. The advantages of colorimetric and fluorescent chemosensors are high sensitivity and selectivity, quick response time, naked-eye visualization and versatility. The targeting of metal ions is of great interest for medicinal, biological, as well as environmental remediation applications. This Special Issue, named “Colorimetric and fluorescent chemosensors for metal ions”, will include cutting-edge research and review articles in this emerging and fascinating field. Authors from interdisciplinary backgrounds are encouraged to contribute to this Special Issue.





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Editor-in-Chief

Prof. Dr. Duncan H. Gregory
School of Chemistry, University of
Glasgow, University Avenue,
Glasgow G12 8QQ, UK

Message from the Editor-in-Chief

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Inorganics Editorial Office
MDPI, Grosspeteranlage 5
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