Recent PUBLICATIONS (● reviews):

● "Metal Ion Complexes of Nucleoside Phosphorothioates Reflecting the Ambivalent Properties of Lead(II)"
  A. Sigel, B. P. Oberschall, R. K. O. Sigel, and H. Sigel
  in preparation.

● "Metal Ion-Binding Properties of (S)-1-[3-Hydroxy-2-(phosphonomethoxy)propyl]cytosine (HPMPC, Cidofovir). A Nucleotide Analogue with Activity Against DNA Viruses"
  C. A. Blindauer, A. Sigel, B. P. Oberschall, A. Holý (†), and H. Sigel
  – Invited contribution to the Special ICA issue devoted to Imre Sóvágó.

● "Complex Formation of Lead(II) with Nucleotides and Their Constituents"
  A. Sigel, B. P. Oberschall, and H. Sigel

● "(N-7)-Platination and Its Effect on (N1)H-Acidification in Nucleoside Phosphate Derivatives"
  A. Sigel, B. P. Oberschall, R. Griesser, B. Song, A. Okruszek, A. Odani, T. Katsuta, B. Lippert, and H. Sigel
  – Invited contribution to the Special ICA issue on "Metal-Nucleic Acid Interactions – State of the Art".

● "Acid-Base and Metal Ion-Binding Properties of Thiopyrimidine Derivatives"
  A. Sigel, B. P. Oberschall, A. Matera-Witkiewicz, J. Swiatek-Kozlowska, and H. Sigel
  – Invited contribution to the Special CCR issue devoted to Henryk Kozlowski.

● "Extent of Intramolecular π-Stacks in Aqueous Solution in Mixed-Ligand Copper(II) Complexes Formed by Heteroaromatic Amines and the Anticancer and Antivirally Active 9-[2-(Phosphonomethoxy)ethyl]guanine (PMEG). A Comparison with Related Acyclic Nucleotide Analogues"
Some Fragmentary Reflections about Professor Henryk Kozlowski and His Mentor Professor Boguslawa Jezowska-Trzebiatowska"
H. Sigel
Spotkajmy sie we Wroclawiu (Let's Meet in Wroclaw) 33, 37-40 (2015) [issue no 1].
– Invited contribution to the Special issue devoted to "70 Years of Wroclaw Chemistry".

"Connectivity Patterns and Rotamer States of Nucleobases Determine Acid-Base Properties of Metalated Purine Quartets"
M. S. Lüth, E. Freisinger, G. Kampf, M. Garijo Anorbe, R. Griesser, B. P. Operschall, H. Sigel, and B. Lippert
– Special JIB issue regarding EuroBIC-12.

"Solution Properties of Metal Ion Complexes Formed with the Antiviral and Cytostatic Nucleotide Analogue 9-[2-(Phosphonomethoxy)ethyl]-2-amino-6-dimethylaminopurine (PME2A6DMAP)"
R. B. Gómez-Coca, A. Sigel, B. P. Operschall, A. Holý (†), and H. Sigel
– CJC issue in Honor of A. B. P. (Barry) Lever.

"Comparison of the π-Stacking Properties of Purine versus Pyrimidine Residues. Some Generalizations Regarding Selectivity"
A. Sigel, B. P. Operschall, and H. Sigel
– JBIC issue dedicated to the memory of Ivano Bertini.

"Extent of Intramolecular π-Stacks in Aqueous Solution in Mixed-Ligand Copper(II) Complexes Formed by Heteroaromatic Amines and 1-[2-(Phosphonomethoxy)ethyl]cytosine (PMEC), a Relative of Antivirally Active Acyclic Nucleotide Analogues"
(Ternary Complexes in Solution. Part 72)
C. A. Blindauer, A. Sigel, B. P. Operschall, A. Holý(†), and H. Sigel
– Invited contribution to the ZAAC issue devoted to Bioinorganic Chemistry.


- "Complex Formation of Cadmium with Sugar Residues, Nucleobases, Phosphates, Nucleotides, and Nucleic Acids"
  R. K. O. Sigel, M. Skilandat, A. Sigel, B. P. Operschall, and H. Sigel

- "Metal Ion Interactions with Nucleic Acids and Their Constituents"
  R. K. O. Sigel and H. Sigel

- "Extent of Intramolecular π-Stacks in Aqueous Solution in Mixed-Ligand Copper(II) Complexes Formed by Heteroaromatic Amines and Several 2-Aminopurine Derivatives of the Antivirally Active Nucleotide Analogue 9-[2-(Phosphonomethoxy)ethyl]adenine (PMEA)"
  (Ternary Complexes in Solution. Part 71)
  R. B. Gómez-Ćoca, C. A. Blindauer, A. Sigel, B. P. Operschall, A. Holý, and H. Sigel
"Steric Guiding of Metal Ion Binding to a Purine Residue by a Non-Coordinating Amino Group: Examplified by 9-[2-(Phosphonomethoxy)ethyl]-2-aminopurine (PME2AP), an Isomer of the Antiviral Nucleotide Analogue 9-[2-(Phosphonomethoxy)ethyl]adenine (PMEA), and by Related Compounds"  
A. Sigel, B. P. Operschall, and H. Sigel  
– Invited contribution to the special issue devoted to the 'European Group of Thermodynamics of Metal Complexes'.

"Probing the Stacking Properties of Nucleosides and Nucleotides with Heteroaromatic Amines and the Effect of Metal Ion-Bridging on the Stability of the Stacks. Implications for Biological Systems"  
N. A. Corfù, A. Sigel, B. P. Operschall, and H. Sigel  
– Invited contribution to the issue commemorating the 150th birth anniversary of Sir Prafulla Chandra Ray.

"Understanding the Acid-Base Properties of Adenosine. The Intrinsic Basicities of N1, N3 and N7"  
L. E. Kapinos, B. P. Operschall, E. Larsen, and H. Sigel  

"Metals in the Brain"  
A. Sigel and H. Sigel  

"Probing the Metal Ion-Binding Strength of the Hydroxyl Group"  
*Chem. Rev.* 111, 4964-5003 (2011); DOI: 10.1021/cr1000415s.

"Stability and Structure of Mixed Ligand Metal Ion Complexes Containing Ni^{2+}, Cu^{2+} or Zn^{2+}, and Histamine as well as Adenosine 5'-Triphosphate (ATP^4-) or Uridine 5'-Triphosphate (UTP^4-): An Intricate Network of Equilibria"  
B. Knobloch, A. Mucha, B. P. Operschall, H. Sigel, M. Jezowska-Bojczuk, H. Kozlowski, and
R. K. O. Sigel

- "Metal Ion-Binding Properties of 9-[(2-Phosphonomethoxy)ethyl]-2-aminopurine (PME2AP), an Isomer of the Antiviral Nucleotide Analogue 9-[(2-Phosphonomethoxy)ethyl]adenine (PMEA). Steric Guiding of Metal Ion-Coordination by the Purine-Amino Group"
  A. Fernández-Botello, B. P. Operschall, A. Holý, V. Moreno, and H. Sigel

- "A Stability Concept for Metal Ion Coordination to Single-Stranded Nucleic Acids and Affinities of Individual Sites"
  R. K. O. Sigel and H. Sigel

- "Xanthosine 5'-Monophosphate (XMP). Acid-Base and Metal Ion-Binding Properties of a Chameleon-like Nucleotide"
  H. Sigel, B. P. Operschall, and R. Griesser

- "Influence of a Decreasing Solvent Polarity on the Stability and Structure of Mixed-Ligand Complexes Formed by Copper(II), 2,2'-Bipyridine or 1,10-Phenanthroline and Guanosine 5'-Diphosphate"
  (Ternary Complexes in Solution. Part 70)
  B. P. Operschall, E. M. Bianchi, R. Griesser, and H. Sigel
  -- Invited contribution to the *JCC* issue dedicated to *Prof. Dr. Alfredo Mederos*.

- "Intramolecular (π-π)-Stacking Interactions in Aqueous Solution in Mixed-Ligand Copper(II) Complexes Formed by Heteroaromatic Amines and the Nucleotide Analogue 9-[2-(Phosphonomethoxy)ethyl]-2-aminopurine (PME2AP), an Isomer of the Antivirally Active 9-[2-(Phosphonomethoxy)ethyl]adenine (PMEA)"
  (Ternary Complexes in Solution. Part 69)
  A. Fernández-Botello, A. Holý, V. Moreno, B. P. Operschall, and H. Sigel
-- Invited contribution to the ICA issue dedicated to Prof. Dr. Bernhard Lippert.

- "Comparison of the Surprising Metal Ion-Binding Properties of 5- and 6-Uracilmethylphosphonate (5Umpa$^{2-}$ and 6Umpa$^{2-}$) in Aqueous Solution and Crystal Structures of the Dimethyl and Di(isopropyl) Esters of H$_2$(6Umpa)"
-- Dedicated to Prof. Dr. Jan Reedijk on the occasion of his 65th birthday.

- "Acid-Base and Metal Ion Binding Properties of 2-Thiocytidine in Aqueous Solution"
  J. Brasun, A. Matera, E. Sochacka, J. Swiatek-Kozlowska, H. Kozlowski, B. P. Operschall, and H. Sigel

- "Inosylyl(3'→5')inosine (IpI$^-$). Acid-Base and Metal Ion-Binding Properties of a Dinucleoside Monophosphate in Aqueous Solution"
  B. Knobloch, A. Okruszek, and H. Sigel

- "Synthesis, Crystal Structure and Magnetic Properties of Two New Ternary Complexes of Copper(II) with 2,2'-Bipyridine (Bpy) and Phosphocholine (PCh$^-$) or the Quarternary 1-(2-Phosphonomethoxy)ethyl Derivative of 2,4-Diaminopyrimidine (PMEDAPy$^-$. Examples of an Unusual Tridentate Phosph(on)ate Bridge"

- "Complex Formation of Nickel(II) and Related Metal Ions with Sugar Residues, Nucleobases, Phosphates, Nucleotides, and Nucleic Acids"
  R. K. O. Sigel and H. Sigel
"Extent of Metal Ion-Sulfur Binding in Complexes of Thiouracil Nucleosides and Nucleotides in Aqueous Solution"
A. Odani, H. Kozlowski, J. Swiatek-Kozlowska, J. Brasun, B. P. Opsenschall, and H. Sigel
-- Dedicated to *Prof. Dr. Osamu Yamauchi* on the occasion of his 70th birthday.

"Metal Ion-Coordinating Properties of the Dinucleotide 2'-Deoxyguanylyl(5'→3')-2'-deoxy-5'-guanylate, d(pGpG)\(^3\)-. Isomeric Equilibria Including Macrochelated Complexes Relevant for Nucleic Acids"
B. Knobloch, H. Sigel, A. Okruszek, and R. K. O. Sigel

"Evidence for Intramolecular Aromatic-Ring Stacking in the Physiological pH Range of the Monodeprotonated Xanthine Residue in Mixed-Ligand Complexes Containing Xanthosinate 5'-Monophosphate"
(Ternary Complexes in Solution. Part 68)
H. Sigel, B. P. Opsenschall, S. S. Massoud, B. Song, and R. Griesser

"Metal Ion-Binding Properties of Xanthosine 5'-Monophosphate (XMP) in Aqueous Solution. Complex Stabilities, Isomeric Equilibria, and Extent of Chelation"
H. Sigel, S. S. Massoud, B. Song, R. Griesser, B. Knobloch, and B. P. Opsenschall
-- Dedicated to *Prof. Dr. Bernhard Lippert* on the occasion of his 60th birthday.

"Acid-Base Properties of the Nucleic-Acid Model 2'-Deoxyguanylyl (5'→3')-2'-deoxy-5'-guanylate, d(pGpG)\(^3\)-, and of Related Guanine Derivatives"
B. Knobloch, H. Sigel, A. Okruszek, and R. K. O. Sigel

"Nucleoside 5'-Triphosphates: Self-Association, Acid-Base, and Metal Ion-Binding Properties in
Solution"  
H. Sigel and R. Griesser  
-- Dedicated to Prof. Dr. Henryk Kozlowski on the occasion of his 60th birthday.

- "Acid-Base and Metal Ion-Binding Properties of 9-[2-(2-Phosphonoethoxy)ethyl]adenine (PEEA), a Relative of the Antiviral Nucleotide Analogue 9-[2-(Phosphonomethoxy)ethyl]adenine (PMEA). An Exercise on the Quantification of Isomeric Complex Equilibria in Solution"  
A. Fernández-Botello, R. Griesser, A. Holý, V. Moreno, and H. Sigel  
-- Dedicated to the memory of the late Prof. Dr. Nityananda Saha, Professor of Chemistry at the University of Calcutta and Vice Chancellor of Kalyani University, India.

- "Metal Ion-Binding Properties of (N3)-Deprotonated Uridine, Thymidine and Related Pyrimidine Nucleosides in Aqueous Solution"  
B. Knobloch, W. Linert, and H. Sigel  
-- Dedicated to Prof. Dr. Hans H. Brintzinger on the occasion of his 70th birthday.

- "Influence of a Decreasing Solvent Polarity (1,4-Dioxane-Water Mixtures) on the Acid-Base and Copper(II)-Binding Properties of Guanosine 5'-Diphosphate"  
E. M. Bianchi, R. Griesser, and H. Sigel  
-- Invited contribution to the HCA issue dedicated to Professor Dr. André E. Merbach on the occasion of his 65th birthday.