Publications, Posters, Invited Lectures.

Publications:

Wolfhard Koch and Friedrich Franz Seelig:
Extended HÜCKEL Calculations for the Interchain vs. Intrachain Coupling
of One-dimensional Conductors.
Molecular Crystals and Liquid Crystals **121** (1985), 371.

Wolfhard Koch:
Extended-HÜCKEL-Berechnung der Energiebandstruktur
von Übergangsmetallverbindungen mit eindimensionaler Kristallgeometrie.
Thesis, Universität Tübingen (1986).

Wolfhard Koch and Friedrich Franz Seelig:
Symmetry Orbitals for One-electron Band-structure Computations
of One-dimensional Crystals.
International Journal of Quantum Chemistry **32** (1987), 249-264.

Wolfhard Koch and Friedrich Franz Seelig:
Extended-HÜCKEL Energy Band Structures of Transition Metal Compounds
with One-Dimensional Crystal Geometries.
Basic Equations and Computational Results
for Bis(2,5-dimethyl-N,N′-dicyanoquinonediimine) copper(I).
Zeitschrift für Naturforschung **42a** (1987), 875-888.

Wolfhard Koch:
Extended-HÜCKEL Energy Band Structures of Organometallic Compounds
with One-Dimensional Crystal Geometries.
Computational Results
for Bis(2,5-dimethyl-N,N′-dicyanoquinonediimine) copper, -silver, and lithium.
Zeitschrift für Naturforschung **45a** (1990), 148-156.

Wolfhard Koch:
Neglect of Diatomic Differential Overlap (NDDO)
in Non-Empirical Quantum Chemical Orbital Theories.
Zeitschrift für Naturforschung **48a** (1993), 819-828.

Wolfhard Koch:
Simplified Non-Empirical Unrestricted HARTREE-FOCK Approximation (SUHF)
for the Calculation of Electronic Ground State Properties of Molecules
with Closed and Open Valence Shells.
I. Method.
Zeitschrift für Naturforschung **48a** (1993), 829-833.

Wolfhard Koch, Klaus Neymeyr, Markus Pernpointner, Barbara Schaper, and Klaus Strecker:
Simplified Non-Empirical Unrestricted HARTREE-FOCK Approximation (SUHF)
for the Calculation of Electronic Ground State Properties of Molecules
with Closed and Open Valence Shells.
II. Diatomic Molecules.
Zeitschrift für Naturforschung **48a** (1993), 834-839.

Hartmut B. Stegmann, Thomas Jülich, Ulrike Höfler, Paul Schuler, Wolfhard Koch, Karsten Krohn and Astrid Eickhoff:
Synthesis, EPR, ENDOR and TRIPLE Resonance Investigations
of Anthracycline-Related Semiquinones.
Magnetic Resonance in Chemistry **31** (1993), 468-471.

Wolfhard Koch:
On RÜDENBERG's Integral Approximations
and Their Unrestricted and Combined Use
in Molecular Orbital Theories of HARTREE-FOCK Type.
International Journal of Quantum Chemistry **76** (2000), 148-160.
(RUEDENBERG-Festschrift)

Posters:

Wolfhard Koch and Friedrich Franz Seelig:
Extended HÜCKEL Calculations for the Interchain vs. Intrachain Coupling
of One-dimensional Conductors.
International Conference on the Physics and Chemistry
of Low-Dimensional Synthetic Metals
and *International C.N.R. Symposium*
on Applications and Prospects of Synthetic Metals,
Abano Terme (Italy), 17-22 June 1984.

Wolfhard Koch and Friedrich Franz Seelig:
Extended-HÜCKEL-Bandstrukturen eindimensionaler Komplexpolymere
des Eisens und Kobalts.

Wolfhard Koch and Dietrich Hoffmann:
On RÜDENBERG's Integral Approximations.
34th Symposium for Theoretical Chemistry on Large Molecules,
Gwatt-Zentrum am Thunersee (Switzerland), 20-24 September 1998.

Invited Lectures:

- Universität Düsseldorf, Institut für Theoretische Chemie
  (at invitation of Prof. Schmidtke).
- Universität Stuttgart, Institut für Theoretische Chemie
  (at invitation of Prof. Preuß).
- Universität Tübingen, "Kann Chemie auf Physik reduziert werden?"
  Studium generale: "Chemie an der Schwelle des 21. Jahrhunderts",
  24 November 1999 (at invitation of Prof. Häfelinger).
  Video: `http://timms.zdv.uni-tuebingen.de`
- Universität Münster, Philosophisches Seminar,
  15 February 2001 (at invitation of Prof. Hoyer).
- Universität Heidelberg, Institut für Theoretische Chemie,
  27 May 2002 (at invitation of Prof. Cederbaum).
- Gustav-Siewerth-Akademie, Weilheim-Bierbronnen:
  "Zur Problematik der Freiheit aus der Sicht der Quantenphysik",
  20 September 2002 (at invitation of Prof. Hoyer, Universität Münster).
- Eidgenössische Technische Hochschule Zürich, Pharmazeutische Chemie
  (at invitation of Prof. Folkers).