

**COORDINATION CHEMISTRY REVIEWS, VOL. 197 (2000)**

**SUBJECT INDEX**

- Alkali cations  
  Complexation of  $\text{Li}^+$ ,  $\text{Na}^+$ , and  $\text{K}^+$  by water and ammonia 125
- Alkyl  
  Molecules with hydride or alkyl ligands and including  $d^0$  transition metal centers: problem cases for the simple VSEPR model 95
- Atomic orbitals  
  Atomic orbitals, symmetry, and coordination polyhedra 141
- Atoms-in-molecule  
  Complexation of  $\text{Li}^+$ ,  $\text{Na}^+$ , and  $\text{K}^+$  by water and ammonia 125
- Atoms in Molecules  
  On the full topology of the Laplacian of the electron density 169
- Career and contributions of R.J. Gillespie  
  The career and scientific work of Ronald J. Gillespie: an appreciation and overview 3
- Chemical bonding  
  Chemical bonding in mononuclear transition metal complexes with Group 13 diyl ligands ER ( $\text{E} = \text{B-Tl}$ ): Part X: Theoretical studies of inorganic compounds 249
- Chemical education  
  The career and scientific work of Ronald J. Gillespie: an appreciation and overview 3
- Complexation  
  Complexation of  $\text{Li}^+$ ,  $\text{Na}^+$ , and  $\text{K}^+$  by water and ammonia 125
- Contributions of R.J. Gillespie  
  A structural chemist's entanglement with Gillespie's theories of molecular geometry 37
- Echoes of our VSEPRing 21
- Coordination chemistry  
  Coordination chemistry in and of sulfur dioxide 277
- Coordination polyhedra  
  Atomic orbitals, symmetry, and coordination polyhedra 141
- Diamagnetic  
  Concerning the nature of  $\text{XePtF}_6$  321
- Diyl ligands  
  Chemical bonding in mononuclear transition metal complexes with Group 13 diyl ligands ER ( $\text{E} = \text{B-Tl}$ ): Part X: Theoretical studies of inorganic compounds 249
- Electron localization  
  Professor Gillespie—a symbiotic relationship 71
- Fermi hole  
  Professor Gillespie—a symbiotic relationship 71
- Fluoride ion affinities  
  Recent advances in understanding of the syntheses, structures, bonding and energetics of the homopolyatomic cations of Groups 16 and 17 397
- Fluorine  
  The impact of multi-NMR spectroscopy on the development of noble-gas chemistry 335
- Homopolyatomic cations  
  Recent advances in understanding of the syntheses, structures, bonding and energetics of the homopolyatomic cations of Groups 16 and 17 397
- Hydride  
  Molecules with hydride or alkyl ligands and including  $d^0$  transition metal centers: problem cases for the simple VSEPR model 95

## Krypton

- The impact of multi-NMR spectroscopy on the development of noble-gas chemistry 335

## Laplacian of the electron density

- On the full topology of the Laplacian of the electron density 169

## LCP model

- Improving our understanding of molecular geometry and the VSEPR model through the ligand close-packing model and the analysis of electron density distributions 51

- The career and scientific work of Ronald J. Gillespie: an appreciation and overview 3

## Ligand close-packing

- A structural chemist's entanglement with Gillespie's theories of molecular geometry 37

## Ligand–ligand repulsions

- Improving our understanding of molecular geometry and the VSEPR model through the ligand close-packing model and the analysis of electron density distributions 51

## Metal carbonyl clusters

- Metal–metal and metal–ligand bond strengths in metal carbonyl clusters 191

## Metal–ligand bond enthalpies

- Metal–metal and metal–ligand bond strengths in metal carbonyl clusters 191

## Metal–metal bond enthalpies

- Metal–metal and metal–ligand bond strengths in metal carbonyl clusters 191

## Molecular geometry

- Improving our understanding of molecular geometry and the VSEPR model through the ligand close-packing model and the analysis of electron density distributions 51

## Molecular structure

- A structural chemist's entanglement with Gillespie's theories of molecular geometry 37

- Echoes of our VSEPRing 21

## Mononuclear transition metal complexes

- Chemical bonding in mononuclear transition metal complexes with Group 13 diyl ligands ER (E = B–Tl): Part X: Theoretical studies of inorganic compounds 249

## Multi-NMR

- The impact of multi-NMR spectroscopy on the development of noble-gas chemistry 335

## 'Naked' metal cations

- Coordination chemistry in and of sulfur dioxide 277

## Noble-gas chemistry

- The impact of multi-NMR spectroscopy on the development of noble-gas chemistry 335

## Polarization

- Complexation of  $\text{Li}^+$ ,  $\text{Na}^+$ , and  $\text{K}^+$  by water and ammonia 125

## Radial and angular geometry

- Geometry and binding strength of a  $\pi$ -type hydrogen-bonded complex of ethene and hydrogen bromide determined by rotational spectroscopy 231

## Rotational spectroscopy

- Geometry and binding strength of a  $\pi$ -type hydrogen-bonded complex of ethene and hydrogen bromide determined by rotational spectroscopy 231

## Science history

- Echoes of our VSEPRing 21

## Solvation

- Complexation of  $\text{Li}^+$ ,  $\text{Na}^+$ , and  $\text{K}^+$  by water and ammonia 125

## Sulfur dioxide complexes

- Coordination chemistry in and of sulfur dioxide 277

## Superacids

- The career and scientific work of Ronald J. Gillespie: an appreciation and overview 3

## Symmetry

- Atomic orbitals, symmetry, and coordination polyhedra 141

## Thermodynamics

- Recent advances in understanding of the syntheses, structures, bonding and energetics of the homopolyatomic cations of Groups 16 and 17 397

## Topology of the electron density

- On the full topology of the Laplacian of the electron density 169

Transition metals

Molecules with hydride or alkyl ligands and including  $d^0$  transition metal centers: problem cases for the simple VSEPR model 95

Type and strength of interaction

Geometry and binding strength of a  $\pi$ -type hydrogen-bonded complex of ethene and hydrogen bromide determined by rotational spectroscopy 231

VSEPR

On the full topology of the Laplacian of the electron density 169

The impact of multi-NMR spectroscopy on the development of noble-gas chemistry 335

VSEPR model

Echoes of our VSEPRing 21

Improving our understanding of molecular geometry and the VSEPR model through the ligand close-packing model and the analysis of electron density distributions 51

Professor Gillespie—a symbiotic relationship 71

The career and scientific work of Ronald J. Gillespie: an appreciation and overview 3

VSEPR theory

A structural chemist's entanglement with Gillespie's theories of molecular geometry 37

Wade–Mingos clusters

Recent advances in understanding of the syntheses, structures, bonding and energetics of the homopolyatomic cations of Groups 16 and 17 397

Weakly coordinating anions

Coordination chemistry in and of sulfur dioxide 277

Xenon

The impact of multi-NMR spectroscopy on the development of noble-gas chemistry 335

XePtF<sub>6</sub>

Concerning the nature of XePtF<sub>6</sub> 321

X-ray powder diffraction pattern

Concerning the nature of XePtF<sub>6</sub> 321