

Contents

Historical Introduction to Gold Colloids, Clusters and Nanoparticles	1
D. Michael P. Mingos	
Phosphine-Coordinated Pure-Gold Clusters: Diverse Geometrical Structures and Unique Optical Properties/Responses	49
Katsuaki Konishi	
Gold Nanoclusters: Size-Controlled Synthesis and Crystal Structures	87
Chenjie Zeng and Rongchao Jin	
Progress in the Synthesis and Characterization of Gold Nanoclusters	117
Yizhong Lu and Wei Chen	
Gold Thiolate Nanomolecules: Synthesis, Mass Spectrometry, and Characterization	155
Chanaka Kumara, Vijay Reddy Jupally, and Amala Dass	
Size- and Ligand-Specific Bioresponse of Gold Clusters and Nanoparticles: Challenges and Perspectives	189
Janine Broda, Günter Schmid, and Ulrich Simon	
Gold Clusters in the Gas Phase	243
Alex P. Woodham and André Fielicke	
Index	279

Gold Clusters, Colloids and Nanoparticles I

Mingos, D.M.P. (Ed.)

2014, IX, 282 p. 137 illus., 90 illus. in color., Hardcover

ISBN: 978-3-319-07847-2