

Publications in 2005

174. J. Zhu, Z. Lin, and T.B. Marder, "The Trans Influence of Boryl Ligands and Comparison with C, Si, and Sn Ligands," *Inorg. Chem.*, **44**: 9384-9390 (2005).
[Read more...](#)
173. L. Porrès, M. Charlot, C.D. Entwistle, A. Beeby, T.B. Marder, and M. Blanchard-Desce, "Novel Boron Quadrupolar NLO-phores: Optimization of TPA/Transparency Trade-off," **invited paper** for *Proc. SPIE*, **5934**: 92-103 (2005).
[Read more...](#)
172. D.P. Lydon, L. Porrès, A. Beeby, T.B. Marder, and P.J. Low, "A Simple 'Palladium-Free' Synthesis of Phenylene(ethynylene)-Based Molecular Materials," *New J. Chem.*, **29**: 972-976 (2005).
[Read more...](#)
171. J.C. Collings, A.C. Parsons, L. Porrès, A. Beeby, A.S. Batsanov, J.A.K. Howard, D.P. Lydon, P.J. Low, I.J.S. Fairlamb, and T.B. Marder, "Optical Properties of Donor-Acceptor Phenylene-Ethynylene Systems Containing the 6-Methylpyran-2-one Group as an Acceptor," *Chem. Commun.*, 2666-2668 (2005).
[Read more...](#)
170. D.N. Coventry, A.S. Batsanov, A.E. Goeta, J.A.K. Howard, T.B. Marder, and R.N. Perutz, "Selective Ir-Catalysed Borylation of Polycyclic Aromatic Hydrocarbons: Structures of Naphthalene-2,6-bis(boronate), Pyrene-2,7-bis(boronate) and Perylene-2,5,8,11-tetra(boronate) Esters," *Chem. Commun.*, 2172-2174 (2005).
[Read more...](#)
169. A.S. Batsanov, J.C. Collings, and T.B. Marder, "Dimethyl(chloromethyl){4-(dimethylamino)phenyl}-ammonium chloride," *Acta Crystallogr.*, **E60**: o201-o202 (2005).
[Read more...](#)
168. M. Charlot, L. Porrès, C.D. Entwistle, A. Beeby, T.B. Marder, and M. Blanchard-Desce, "Investigation of Two-photon Absorption Behaviour in Symmetrical Acceptor- π -Acceptor Derivatives with Dimesitylboryl End-groups. Evidence of New Engineering Routes for TPA/Transparency Trade-off Optimization," *Phys. Chem. Chem. Phys.*, **7**: 600-606 (2005).
[Read more...](#)
167. J.C. Collings, A.S. Batsanov, J.A.K. Howard, D.A. Dickie, J.A.C. Clyburne, H.A. Jenkins and T.B. Marder, "Arene-perfluoroarene Interactions in Crystal Engineering 13: 1:1 Complexes of Octafluoronaphthalene with *trans*-Stilbene and *trans*-Azobenzene," **invited contribution** for special R.D. Chambers issue of *J. Fluorine Chem.*, **126**: 515-519 (2005).
[Read more...](#)
166. A.S. Batsanov, J.C. Collings, I.J.S. Fairlamb, J.P. Holland, J.A.K. Howard, Z. Lin, T.B. Marder, A.C. Parsons, R.M. Ward, and J. Zu, "The Requirement for an Oxidant in Pd/Cu Co-catalyzed Terminal Alkyne Homocoupling to Give Symmetrical 1,4-Disubstituted-1,3-diynes," *J. Org. Chem.*, **70**: 703-706 (2005).
[Read more...](#)
165. T.M. Fasina, J.C. Collings, J.M. Burke, A.S. Batsanov, R.M. Ward, D. Albesa-Jové, L. Porrès, A. Beeby, J.A.K. Howard, A.J. Scott, W. Clegg, S.W. Watt, C. Viney, and T.B. Marder, "Synthesis, Optical Properties, Crystal Structures and Phase Behaviour of Symmetric, Conjugated Ethynylarene-Based Rigid-Rods with Terminal Carboxylate Groups," *J. Mater. Chem.*, **15**: 690-697 (2005).
[Read more...](#)
164. F.E.S. Souza, P. Nguyen, T.B. Marder, A.J. Scott, and W. Clegg, "Synthesis of Rhodium and Iridium Boryl Complexes via Oxidative Addition of Haloboranes," **invited contribution** for special "Protagonists in Chemistry: F. Gordon A. Stone" issue of *Inorg. Chim. Acta*, **385**: 1501-1509 (2005).
[Read more...](#)

Publications in 2004

163. A. Haynes, C.E. Haslam, K.J. Bonnington, L. Parish, H. Adams, S.E. Spay, T.B. Marder, and D.N. Coventry, "Facile Alkene Insertion into a Rh(III)-Acetyl Bond; Potential Catalysts for CO/Alkene Copolymerisation," *Organometallics*, **23**: 5907-5909 (2004).
[Read more...](#)
162. J.C. Collings, J.M. Burke, P.S. Smith, A.S. Batsanov, J.A.K. Howard, and T.B. Marder, "Arene-perfluoroarene Interactions in Crystal Engineering 12: The Synthesis and Crystal Structures of Halogenated Tolans $p\text{-X-C}_6\text{H}_4\text{-C}\equiv\text{C-C}_6\text{F}_5$ and $p\text{-X-C}_6\text{F}_4\text{-C}\equiv\text{C-C}_6\text{H}_5$ (X = F, Cl, Br, I)," *Org. Biomol. Chem.*, **2**: 3172-3178 (2004).
[Read more...](#)
161. G. Stojcevic, H. Kim, N.J. Taylor, T.B. Marder, and S. Collins, "Methacrylate Polymerization using a Dinuclear Zirconocene Initiator: A New Approach for the Controlled Synthesis of Methacrylate Polymers," *Angew. Chem., Int. Ed. Engl.*, **43**: 5523-5526 (2004).
[Read more...](#)
160. D.N. Coventry, A.S. Batsanov, A.E. Goeta, J.A.K. Howard, and T.B. Marder, "Synthesis and Molecular Structures of α -Diimines and their Zinc and Palladium Dichloride Complexes," **invited contribution** for special issue (in honour of Prof. M.L.H. Green) of *Polyhedron*, **23**: 2789-2795 (2004).
[Read more...](#)
159. W. Clegg, A.J. Scott, C. Wiesauer, W. Weissensteiner, and T.B. Marder, "Bis(bis(dicyclohexylphosphino)ethane)gold(I) Chloride Chloroform Tetrasolvate," *Acta Crystallogr.*, **E60**: m968-m970 (2004).
[Read more...](#)
158. W. Clegg, A.J. Scott, C. Wiesauer, W. Weissensteiner, and T.B. Marder, "(E)-2-[2-(4-trifluoromethylphenyl)ethenyl]-1,3,2-benzodixaborole," *Acta Crystallogr.*, **E60**: o1175-o1177 (2004).
[Read more...](#)
157. W. Clegg, A.J. Scott, C. Wiesauer, W. Weissensteiner, and T.B. Marder, "(E)-2-[2-(4-methylphenyl)ethenyl]-1,3,2-benzodixaborole," *Acta Crystallogr.*, **E60**: o1172-o1174 (2004).
[Read more...](#)
156. C.D. Entwistle and T.B. Marder, "Applications of Three-Coordinate Organoboron Compounds and Polymers in Optoelectronics," Special Issue on Organic Electronics, *Chem. Mater.*, **16**: 4574-4585 (2004).
[Read more...](#)
155. N.J. Bell, A.J. Cox, N.R. Cameron, J.S.O. Evans, T.B. Marder, M.A. Duin, C.J. Elsevier, X. Baucherel, A.A.D. Tulloch, and R.P. Tooze, "Platinum Catalysed 3,4- and 1,4-Diboration of α,β -Unsaturated Carbonyl Compounds Using Bis(pinacolato)diboron," *Chem. Commun.*, 1854-1855 (2004).
[Read more...](#)
154. S.A. Westcott, T.B. Marder, R.T Baker, J.C. Calabrese, R.L. Harlow, K.C. Lam, and Z. Lin, "Reactions of Hydroborating Reagents with Phosphinorhodium Hydride Complexes: Molecular Structures of a Rh_2B_3 Metallaborane Cluster, an $\text{L}_2\text{Rh}(\eta^2\text{-H}_2\text{BR}_2)$ Complex, and a Mixed-Valence Rh-Dimer Containing a Semi-bridging Bcat (cat = 1,2- $\text{O}_2\text{C}_6\text{H}_4$) Group," **invited contribution** for special issue (in honour of Prof. M.L.H. Green) of *Polyhedron*, **23**: 2665-2677 (2004).
[Read more...](#)
153. C. Dai, Z. Yuan, J.C. Collings, T.M. Fasina, R. Li. Thomas, K.P. Roscoe, L.M. Stimson, D.S. Yufit, A.S. Batsanov, J.A.K. Howard, and T.B. Marder, "Crystal Engineering with p -Substituted Ethynylbenzenes Using the C-H \cdots O Supramolecular Synthron," *CrystEngComm*, **6**: 184-188 (2004).
[Read more...](#)

152. T.M. Fasina, J.C. Collings, D.P. Lydon, D. Albesa-Jové, A.S. Batsanov, J.A.K. Howard, P. Nguyen, M. Bruce, A.J. Scott, W. Clegg, S.W. Watt, C. Viney, and T.B. Marder, "Synthesis, Optical Properties, Crystal Structures and Phase Behaviour of Selectively Fluorinated 1,4-Bis(4'-pyridylethynyl)benzenes, 4-(Pyridylethynyl)benzenes and 9,10-Bis(4'-pyridylethynyl)anthracenes, and a $Zn(NO_3)_2$ Coordination Polymer," *J. Mater. Chem.*, **14**: 2395-2404 (2004).
[Read more...](#)
151. W.H. Lam, K.C. Lam, Z. Lin, S. Shimada, R.N. Perutz and T.B. Marder, "Theoretical Study of Reaction Pathways for the Rhodium-Phosphine Catalysed Borylation of C-H Bonds with Pinacolborane," *Dalton Trans.*, 1556-1562 (2004).
[Read more...](#)
150. S.W. Watt, C. Dai, A.J. Scott, J.M. Burke, R. Ll. Thomas, J.C. Collings, C. Viney, W. Clegg, and T.B. Marder, "Arene-perfluoroarene Interactions in Crystal Engineering 11: Structure and Phase Behaviour of a 2:1 Complex Between Arene and Fluoroarene-Based Conjugated Rigid-Rods," *Angew. Chem., Int. Ed.*, **43**: 3061-3063 (2004).
[Read more...](#)
149. K.C. Lam, W.H. Lam, Z. Lin, T.B. Marder, and N.C. Norman, "Structural Analysis of Five-Coordinate Transition Metal Boryl Complexes with Different d-Electron Configurations," *Inorg. Chem.*, **43**: 2541-2547 (2004).
[Read more...](#)
148. C.D. Entwistle, A.S. Batsanov, J.A.K. Howard, M.A. Fox and T.B. Marder, "Two Contrasting Ethynyl Hydroboration Pathways in the Formation of a Novel Tris-Hydroboration Product from Reaction of Dimesitylborane with 2,5-Diethynylpyridine," *Chem. Commun.*, 702-703 (2004).
[Read more...](#)
147. J.C. Collings, P.S. Smith, D.S. Yufit, A.S. Batsanov, J.A.K. Howard, and T.B. Marder, "Arene-perfluoroarene Interactions in Crystal Engineering 10: Crystal Structures of 1:1 Complexes of Octafluoronaphthalene with Biphenyl and Biphenylene," *CrystEngComm*, **6**: 25-28 (2004).
[Read more...](#)
146. C.E. Smith, P.S. Smith, R. Ll. Thomas, E.G. Robins, J.C. Collings, C. Dai, A.J. Scott, S. Borwick, A.S. Batsanov, S.W. Watt, C. Viney, J.A.K. Howard, W. Clegg, S.J. Clark, and T.B. Marder, "Arene-perfluoroarene Interactions in Crystal Engineering 9: Effects of Arene-Perfluoroarene Interactions on the Single-Crystal Structures of Polyfluorinated Tolans," *J. Mater. Chem.*, **14**: 413-420 (2004).
[Read more...](#)
145. P.L. Callaghan, R. Fernandez-Pacheco, N. Jasim, S. Lachaize, T.B. Marder, R.N. Perutz, E. Rivalta, and S. Sabo-Etienne, "Photochemical Oxidative Addition of B-H Bonds at Ruthenium and Rhodium," *Chem. Commun.*, 242-243 (2004).
[Read more...](#)