

Barry Steele

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Curriculum Vitae – Current Research Interests

Education and qualifications

- 1974: DPhil, University of Sussex, UK (supervisors: Prof Colin Eaborn and Dr. Alan Pidcock)
1971: BA in Chemistry, University of Oxford, UK.

Appointments

- 2001-present: Research Director, National Hellenic Research Foundation
1995-2001: Special Functional Scientist, National Hellenic Research Foundation.
1985-1994: Researcher, National Hellenic Research Foundation (fixed term contracts).
1981-1985: Teacher of Chemistry and Physics at the Advanced Technology Centre, Athens and the Center for Embry-Riddle Aeronautical Studies, Athens.
1979-1981: Head of Spectroscopy Section, Beechams Pharmaceuticals Research Centre, Surrey, UK.
1977-1979: Post-doctoral Fellow, University of Saskatchewan, Canada.
1975-1977: Scientific Collaborator, University of Amsterdam, The Netherlands.
1974-1975: Post-doctoral Fellow, University of Sussex, UK.

Current Research Interests

- Study and use of Main Group metal alkoxides and organometallic compounds. The use of metal alkoxide additives can radically alter the reactivity of organometallic reagents. We exploit these properties for the development of new synthetic methodologies. A particular instance is the discovery of a new and simple procedure for the synthesis of novel sterically hindered aromatic compounds.
- Design and synthesis of dendrimers with applications in biomedicine, materials science and environmental chemistry. The focus is on molecules with anti-oxidant properties, with chromophore motifs and with metal chelating properties.
- Development of synthetic procedures towards organometallic stilbene derivatives and their further elaboration. The aim is to prepare compounds with special optical properties or biological behaviour.
- Synthesis and study of derivatives with nitrogen- or chalcogen containing donors. These compounds serve as hemi-labile ligands in certain transition metal complexes which are

studies for their potential catalytic activity in, for example, hydroformylation and carbon-carbon coupling reactions.

Highlights of research activities

- Development of an efficient and economical methodology, base on modified main group metal organometallic reagents, for the preparation of bulky aromatic compounds which are useful building blocks for ligands for metal complexes and for biologically active compounds (*J. Am. Chem. Soc.* **2000**, *122*, 2391-2392; *Appl. Organomet. Chem.* **2002**, *16*, 501-505; *Tetrahedron Lett.* **2006**, *47*, 2093-2097; *Eur. J. Org. Chem.* **2007**, 3091-3094)
- Development of synthetic routes to resveratrol derivatives with neuroprotective activity (*Patent*: M. Micha-Screttas, C. Villalonga Barber, B.R. Steele, M.N. Alexis, GR 1005435; *Bioorg. Med. Chem.*, **2011**, *19*, 339-351)
- Organometallic triarylmethyl dyes with substantial near IR and NLO properties (*J. Organomet. Chem.* **2005**, *690*, 1620-1626; *J. Organomet. Chem.* **2006**, *691*, 2785-2792)

Professional activities

- Management of Research Network Projects: "Simple and Mixed Metal Alkyls, Alkoxides and Amides in Synthesis and Catalysis and as Precursors for Ceramic and Polymeric Materials" (EU FP3, Human Capital and Mobility Network), "Design, Synthesis and Study of Novel Non-linear Optical Materials" (EU FP4, Training and Mobility of Researchers Network), ARCADE (Regpot-2009) which were coordinated by the group.
- Teaching activities: Seminars to secondary education teachers, (National Hellenic Research Foundation, May 1998). Post-Graduate course in organometallic chemistry (EURODESY project 2006-2010).
- Expert evaluator for FP6 and FP7 EU programmes.
- Member of Organising Committee, 10th FECHEM Conference on Organometallic Chemistry, September 1993, Crete.
- General Secretary, 20th International Conference on Organometallic Chemistry, July 2002, Corfu.
- Chairman, COST D31 Workshop, March 2007, Athens.
- Chairman, International Conference on Chemistry for Health, September 2012, Athens.

Memberships

- Association of Greek Chemists
- Management Committee of COST Action D31, "Organising Non-Covalent Chemical Systems with Selected Functions"
- Participation on committees for the acquisition of scientific instruments
- Participation on committees for the evaluation of research personnel.

Funded Programmes

Principal Investigator/Scientist-in-Charge

1. PENED 1999 (99ED 173); 2000 - 2001
 Title: Monomeric and polymeric chiral micelles as microreactors for the production of technological useful materials. (*Collaboration between NRCPS Democritos, NHRF, University of Athens.*)
2. Joint Research and Technology Programme for Bilateral Cooperation, Greece-Russia; 1999 - 2001
 Title: Design and synthesis of hemi-labile ligands for homogeneous catalysis. (*Collaboration between NHRF, Siberian Branch of the Russian Academy of Sciences*)
3. Joint Research and Technology Programme for Bilateral Cooperation, Greece-Poland; 2000 - 2002;
 Title: Comparative study of the chemistry of aluminium and nickel cyclopentadienyl derivatives. (*Collaboration between NHRF, Warsaw University of Technology*)
4. Joint Research and Technology Programme for Bilateral Cooperation, Greece-Russia; 2002 - 2004
 Title: Novel catalysts for industrially important processes. (*Collaboration between NHRF, Siberian Branch of the Russian Academy of Sciences*)
5. PRAXE (M 4.1.1, EPAN); 2002-2004
 Title: New products with high added value. (*NHRF*)
6. ENTER (EPAN 01EP 70); 2004-2006
 Title: Design and synthesis of new near-infrared organometallics. Fellowship to Dr. Veronika Kovač. (*NHRF*)
7. Marie Curie Intra-European Fellowship (MEIF-CT-2003-501082);
 Title: Design, synthesis and study of novel organometallic near infrared dyes. Fellowship to Dr. Carolina Villalonga-Barber. (*NHRF*)
8. IKYDA 2004; 2005-2006
 Title: Active catalytic systems with complexes of rhodium, palladium and zinc with hemi-labile sterically demanding phosphorus-nitrogen ligands. (*Collaboration between NHRF, Universität Leipzig.*)
9. PENED 2003 (EPAN 03ED242); 2007-2010
 Title: Dendrimers as near-infrared dyes (*NHRF*)
10. REGPOT-2009-1 (FP7)-"ARCADE" (GA 245866); 2009-2013
 Title: Advancement of Research Capability for the Development of New Functional Compounds. (*NHRF*)

In addition to the above, participation in 6 projects funded by the EU and 6 nationally funded projects.

Team members

Spyros Georgakopoulos, PhD

Cécile Arbez-Gindre, PhD

Georgia Antonopoulou, PhD

The team operates in very close association with the emeritus researchers Constantinos G. Scretta, PhD and Maria Micha-Screttas, PhD

Publications

Publications in refereed journals

1. C. Eaborn, A. Pidcock and B. R. Steele, *J. Chem. Soc., Dalton Trans.*, **1975**, 809-813. "The reaction between carbonatobis(phosphine)platinum(II) complexes and triorganotin hydrides. Formation of Sn-Pt^{IV} bonds."
2. C. Eaborn, A. Pidcock and B.R. Steele, *J. Chem. Soc., Dalton Trans.*, **1976**, 767-776. "Oxidative addition of triorganotin halides to platinum(0) complexes."
3. B.R. Steele and K. Vrieze, *Transition Met. Chem.*, **1977**, 2, 140-144. "Complexes with metal-carbon bonds, Part III. Preparation and properties of binuclear diarylplatinum(0) compounds."
4. B.R. Steele and K. Vrieze, *Transition Met. Chem.*, **1977**, 2, 169-174. "Complexes with metal-carbon bonds, Part IV. Binuclear diarylplatinum(III) complexes. Long-range trans-effect in platinum-platinum bonded compounds containing methyl and aryl groups."
5. C.C. Lee, B.R. Steele, K.J. Demchuk and R.G. Sutherland, *Can. J. Chem.*, **1979**, 57, 946-948. "Nucleophilic reactions of zwitterionic species from deprotonation of η^6 -arene- η^5 -cyclopentadienyliron cations."
6. R.G. Sutherland, B.R. Steele, K.J. Demchuk and C.C. Lee, *J. Organomet. Chem.*, **1979**, 181, 411-424. "Zwitterionic species from deprotonation of η^6 -arene- η^5 -cyclopentadienyliron cations and their reactions as nucleophiles."
7. C.C. Lee, B.R. Steele and R.G. Sutherland, *J. Organomet. Chem.*, **1980**, 186, 265-270. "Ligand exchange of some heterocyclic analogues of fluorene and anthracene with ferrocene."
8. B.R. Steele, C.C. Lee, and R.G. Sutherland, *J. Chem. Soc., Dalton Trans.*, **1981**, 529-534. "A carbon-13 nuclear magnetic resonance study of (arene)(cyclopentadienyl)iron salts."
9. A.E. Bird, B.R. Steele, M.O. Boles and P.A.C. Ganes, *J. Chem. Soc., Perkin Trans. 1*, **1982**, 563-569. "Nuclear magnetic resonance and circular dichroism of penicillins derived from disubstituted acetic acids."
10. C.C. Lee, A. Piorko, B.R. Steele, U.S. Gill and R.G. Sutherland, *J. Organomet. Chem.*, **1983**, 256, 303-308. "Ring opening reactions of some η^6 -heterocycle- η^5 -cyclopentadienyliron hexa-fluorophosphates."
11. C.G. Screttas and B.R. Steele, *J. Organomet. Chem.*, **1986**, 317, 137-144. "Formation of ketones in the reaction of aldehydes with unsolvated dibutyl-magnesium in hydrocarbon solvents under homogeneous conditions and its implications."
12. C.G. Screttas and B.R. Steele, *J. Org. Chem.*, **1988**, 53, 5151-5153. "Carboxamidation of organolithium and organomagnesium reagents by a two-step one-flask reaction. Promotion by magnesium alkoxides."
13. C.G. Screttas and B.R. Steele, *J. Org. Chem.*, **1989**, 54, 1013-1017. "Metal alkoxide modified organometallic reagents. Preparation and stability of organolithium reagents in tetrahydrofuran in the presence of magnesium 2-ethoxy-ethoxide."
14. C.G. Screttas and B.R. Steele, *J. Organomet. Chem.*, **1993**, 453, 163-170. "Activated alkyl- and allylalkali metal reagents. Contrasting behaviour towards ethylene."

15. C.G. Screttas, G.A. Heropoulos and B.R. Steele, *J. Chem. Soc., Faraday Trans.*, **1996**, 1717-1719. "Deviation from Trouton's rule and a method for converting a non-constitutive molecular parameter into a constitutive one"
16. C.G. Screttas, M. Micha-Screttas and B.R. Steele, *J. Organomet. Chem.*, **1997**, 536-537, 149-163. "The tert-butyl chloride-lithium naphthalene radical anion and tert-butyllithium-naphthalene systems. Mechanism of metallation"
17. J. Andrieu, B.R. Steele, C.G. Screttas, C.J. Cardin and J. Fornies, *Organometallics*, **1998**, 17, 839-845. "Synthesis of new phosphinoaminoalcohol ligands via ortho-alkyllithiation reactions. Versatile coordination behaviour towards Cu(I) and Pd(II)."
18. C.G. Screttas, G.A. Heropoulos, B.R. Steele and D. Bethell, *Mag. Res. Chem.*, **1998**, 36, 656-662. Phosphorus-31 contact shifts as a measure of weak ligand affinities. Interaction between alkali metal fluorenone radical anions and certain phosphorus (III and V) ligands."
19. A. Behrendt, C.G. Screttas, D. Bethell, O. Schiemann and B.R. Steele, *J. Chem. Soc., Perkin Trans. 2*, **1998**, 2039-2045. Magnetic and electrochemical investigations on anions derived from oligoketones containing fluorenone and benzophenone units. An approach to the design of stable multiradical organic materials."
20. M. Micha-Screttas, G. A. Heropoulos and B.R. Steele, *J. Chem. Soc., Perkin Trans. 2*, **1999**, 1443-1446. Evidence for a concentration dependent $^{6(7)}\text{Li}$ NMR contact shift in tetrahydrofuran solutions of lithium naphthalene radical anion and the effect of added $^{6(7)}\text{LiCl}$ "
21. C.S. Salteris, I.D. Kostas, M. Micha-Screttas, B.R. Steele, G.A. Heropoulos, C.G. Screttas and A. Terzis *J. Organomet. Chem.*, **1999**, 590, 63-70. Synthesis of lithium ω -(m- and p-lithiophenoxy)alkoxides modified with magnesium 2-ethoxyethoxide. Crystal structures of bis[4-(2-hydroxyethoxy)phenyl]mercury and bis[4-(3-hydroxypropoxy)phenyl]mercury"
22. M. Micha-Screttas, G. A. Heropoulos and B.R. Steele, *J. Chem. Soc., Perkin Trans. 2*, **1999**, 2685-2690. Interaction between alkali metal aromatic ketone radical anions and the chlorides of lithium and magnesium in solution. A case of a carbon-carbon bond strengthening through complex formation"
23. B.R. Steele and C.G. Screttas, *J. Am. Chem. Soc.* **2000**, 122, 2391-2392. A chemoselective catalytic side-chain alkylation of aromatics by ethylene leading to sterically demanding alkylbenzenes."
24. S.R. Bayly, E.R. Humphrey, H. de Chair, C.G. Paredes, Z.R. Bell, J.C. Jeffery, J.A. McCleverty, M.D. Ward, F. Totti, D. Gatteschi, S. Courric, B.R. Steele and C.G. Screttas, *J. Chem. Soc. Dalton Trans.* **2001**, 1401-1414 Electronic and magnetic metal-metal interactions in dinuclear oxo-Mo(V) complexes across bis-phenolate bridging ligands with different spacers between the phenolate termini: ligand-centred vs. metal-centred redox activity"
25. M. Micha-Screttas, G. A. Heropoulos and B.R. Steele, *Mag. Res. Chem.* **2001**, 39, 586-592. Structural changes in concentrated solutions of alkali metal monosubstituted benzophenone radical anions in pure and mixed solvents"
26. B.R. Steele, M. Micha-Screttas and C.G. Screttas, *Appl. Organomet. Chem.* **2002**, 16, 501-505 Applications of novel sterically demanding aromatics in organometallic synthesis"

27. M. Micha-Screttas, C.G. Screttas, B.R. Steele and G. A. Heropoulos, *Tetrahedron Lett.* **2002**, *43*, 4871-4873. Chemical and physical evidence for metal-metal interchange between lithium alkoxides and dibutylmagnesium"
28. I.D. Kostas, B.R. Steele, A. Terzis and S.V. Amosova, *Tetrahedron*, **2003**, *59*, 3467-3473. A palladium complex with a new hemilabile amino- and sulfur-containing phosphinite ligand as an efficient catalyst for the Heck reaction of aryl bromides with styrene. The effect of the amino group."
29. D.P. Catsoulacos, B.R. Steele, G.A. Heropoulos, M. Micha-Screttas and C.G. Screttas, *Tetrahedron Lett.*, **2003**, *44*, 4575-4578. An imino-phosphine dendrimeric ligand and its evaluation in the Heck reaction"
30. C.G. Screttas, G.A. Heropoulos, M. Micha-Screttas, B.R. Steele and D.P. Catsoulacos, *Tetrahedron Lett.*, **2003**, *44*, 5633-5635 Reductive lithiation of alkyl phenyl sulfides in diethyl ether. A ready access to α,α -dialkylbenzylolithiums"
31. G.C. Papavassiliou, G.A. Mousdis, G.C. Anyfantis, N. Assimomytis and B.R. Steele, *Z. Naturforsch. B* **2003**, *58b*, 813-814. Preparation and characterization of 5,6-dimethyl-5,6-dihydro-[1,4]diselenino[2,3-*d*][1,3]dithiole-2-thione and similar compounds"
32. A. Lazaridou, C.G. Biliaderis, M. Micha-Screttas and B. R. Steele, *Food Hydrocolloids*, **2004**, *18*, 837-855. A comparative study on structure – function relations of mixed linkage (1→3), (1→4) linear β -D-glucans"
33. A.V. Martynov, N.A. Makhaeva, V. A. Potapov, S.V. Amosova, B.R. Steele and I.D. Kostas, *Phosphorus Sulfur*, **2004**, *179*, 1373-1380. Reduction of terminal organylchalcogeno phosphonates as a way to prepare primary organylchalcogeno phosphines"
34. I. D. Kostas, B.R. Steele, F.J. Andreadaki and V.A. Potapov, *Inorg. Chim. Acta*, **2004**, *357*, 2850-2854. Rhodium complexes possessing *S*-phosphinite ligands with or without an amino group. Application to hydroformylation of styrene"
35. B.R. Steele, M. Micha-Screttas and C.G. Screttas, *Tetrahedron Lett.* **2004**, *45*, 9537-9540. Synthesis and properties of 1-bromo-2,3,5,6-tetrakis(3-pentyl)benzene : a highly sterically hindered aryl bromide"
36. C. Arbez-Gindre, B.R. Steele, G.A. Heropoulos, C.G. Screttas, J.-E. Communal, W.J. Blau and I. Ledoux-Rak, *J. Organomet. Chem.* **2005**, *690*, 1620-1626 A facile organolithium route to ferrocene-based triarylmethyl dyes with substantial near IR and NLO properties"
37. G.A. Heropoulos, S. Georgakopoulos and B.R. Steele, *Tetrahedron Lett.* **2005**, *46*, 2469-2473 High intensity ultrasound assisted reduction of sterically demanding nitroaromatics"
38. S.V. Amosova, N.A. Makhaeva, A.V. Martynov, V.A. Potapov, B.R. Steele and I.D. Kostas, *Synthesis* **2005**, 1641-1648 Terminal organochalcogenoethyl- and -propylamines and their Schiff base derivatives."
39. C.G. Screttas, G.A. Heropoulos, M. Micha-Screttas and B.R. Steele, *Tetrahedron Lett.* **2005**, *46*, 4357-4360. Medium-dependent lithiated side products in the reductive lithiation of allylic phenyl thioethers. Diethyl ether versus tetrahydrofuran"
40. B.R. Steele, C. Villalonga-Barber, M. Micha-Screttas and C.G. Screttas, *Tetrahedron Lett.* **2006**, *47*, 2093-2097. Selective catalytic carbanionic ethylation of methylphenols. Influence of catalyst and substitution pattern"

41. C. Villalonga-Barber, B. R. Steele, V. Kovač, M. Micha-Screttas and C. G. Screttas, *J. Organomet. Chem.* **2006**, *691*, 2785-2792. New stable, isolable triarylmethyl based dyes absorbing in the near infrared"
42. I. D. Kostas, B. R. Steele, A. Terzis, S. V. Amosova, A. V. Martynov and N. A. Makhaeva, *Eur. J. Inorg. Chem.* **2006**, 2642-2646. New palladium complexes with S- or Se-containing Schiff base ligands as efficient catalysts for the Suzuki-Miyaura cross-coupling reaction of aryl bromides with phenylboronic acid under aerobic conditions"
43. G. A. Heropoulos, G. Cravotto, C. G. Screttas and B. R. Steele, *Tetrahedron Lett.* **2007**, *48*, 3247-3250. Contrasting chemoselectivities in the ultrasound and microwave assisted bromination reactions of substituted alkylaromatics with *N*-bromosuccinimide"
44. G. C. Papavassiliou, G. C. Anyfantis, B. R. Steele, A. Terzis, C. P. Raptopoulou, G. Tatakis, G. Chaidogiannos, N. Glezos, Y. Weng, H. Yoshino and K. Murata, *Z. Naturforsch. B* **2007**, *62b*, 679-684. Some new nickel 1,2-dichalcogenolene complexes as single-component semiconductors"
45. B. R. Steele, G. A. Heropoulos and C. G. Screttas, *Collect. Czech. Chem. Commun.* **2007**, *72*, 589-598. Metal chloride reductions with aromatic radical anions. The magnesium chloride catalysed cleavage of tetrahydrofuran by sodium naphthalene radical anion"
46. B. R. Steele, S. Georgakopoulos, M. Micha-Screttas and C. G. Screttas, *Eur. J. Org. Chem.* **2007**, 3091-3094. Synthesis of new sterically hindered anilines"
47. G. Skretas, A. Meligova, C. Villalonga-Barber, D. J. Mitsiou, M. N. Alexis, M. Micha-Screttas, B. R. Steele, C. G. Screttas and D. W. Wood, *J. Am. Chem. Soc.* **2007**, *129*, 8443 - 8457. Engineered chimeric enzymes as tools for drug discovery: Generating reliable bacterial screens for the detection, discovery and assessment of estrogen receptor modulators"
48. G. Pagona, A. S. D. Sandanayaka, A. Maigné, J. Fan, G. C. Papavassiliou, I. D. Petsalakis, B. R. Steele, M. Yudasaka, S. Iijima, N. Tagmatarchis and O. Ito, *Chem. Eur. J.* **2007**, *13*, 7600-7607. Photo-induced electron-transfer on aqueous carbon nanohorn-pyrene-tetrathiafulvalene architectures"
49. S. V. Amosova, V. N. Elokhina, A. S. Nakhmanovich, L. I. Larina, A. V. Martynov, B. R. Steele and V. A. Potapov, *Tetrahedron Lett.* **2008**, *49*, 974-976. Reactions of selenourea with benzoyl- and 2-thienoylbromo-acetylenes: synthesis of 1,3-diselenetanes and 1,4-diselenafulvenes"
50. F. Wiesbrock, C. Patteux, T. K. Olszewski, A. Blanrue, G. A. Heropoulos, B. R. Steele, M. Micha-Screttas and T. Calogeropoulou, *Eur. J. Org. Chem.* **2008**, 4344-4349. Solution-phase synthesis and scale-up of 1st generation tetraester-dendritic branches involving microwave and/or ultrasonic irradiation"
51. M. Bucos, C. Villalonga-Barber, M. Micha-Screttas, B. R. Steele, C. G. Screttas and G. A. Heropoulos, *Tetrahedron* **2010**, *66*, 2061-2065. Microwave assisted solid additive effects in simple dry chlorination reactions with *N*-chlorosuccinimide"
52. K. Gardikis, S. Hatziantoniou, M. Bucos, D. Fessas, M. Signorelli, T. Felekis, M. Zervou, C. G. Screttas, B. R. Steele, M. Ionov, M. Micha-Screttas, B. Klajnert, M. Bryszewska and C. Demetzos, *J. Pharm. Sci.* **2010**, *99*, 3561-3571. New drug delivery nanosystem combining liposomal and dendrimeric technology (liposomal locked-in dendrimers) for cancer therapy"

53. C. Villalonga-Barber, A. K. Meligova, X. Alexi, B. R. Steele, C. E. Kouzinou, C. G. Screttas, E. S. Katsanou, M. Micha-Screttas, M. N. Alexis, *Bioorg. Med. Chem.*, **2011**, *19*, 339-351. New hydroxystilbenoid derivatives endowed with neuroprotective activity and devoid of interference with estrogen and aryl hydrocarbon receptor-mediated transcription."
54. C. Koukoulitsa, S. Durdagi, E. Siapi, C. Villalonga-Barber, X. Alexi, B. R. Steele, M. Micha-Screttas, M. N. Alexis and T. Mavromoustakos, *Eur. Biophys. J.* **2011**, *40*, 865-875. Comparison of thermal effects of stilbenoid analogs in lipid bilayers using differential scanning calorimetry and molecular dynamics. Correlation of their thermal effects and topographical position with antioxidant activity"
55. R. Csonka, C. Villalonga-Barber, V. Psycharis, C. P. Raptopoulou and B. R. Steele, *Polyhedron* **2012**, *34*, 181-187. Transition metal complexes of new glyoxylato-arylohydrazones and their role in L-ascorbic acid oxidation inhibition"
56. H. Oberacher, F. Pitterl, E. Siapi, B. R. Steele, T. Letzel, S. Grosse, B. Poschner, F. Tagliaro, R. Gottardo, S. A. Chacko and J. L. Josephs, *J. Mass Spectrom.* **2012**, *47*, 263-270. On the inter-instrument and the inter-laboratory transferability of a tandem mass spectral reference library. 3. Focus on ion trap and up-front CID"
57. C. G. Screttas, B. R. Steele, M. Micha-Screttas and G. A. Heropoulos, *Org. Lett.* **2012**, *14*, 5680-5683. Aryllithiums with increasing steric crowding and lipophilicity prepared from chlorides in diethyl ether. The first directly prepared room temperature-stable dilithioarenes"
58. C. Villalonga-Barber, K. Vallianatou, S. Georgakopoulos, B. R. Steele, M. Micha-Screttas, E. Levin and N. G. Lemcoff, *Tetrahedron* **2013**, *69*, 3885-3895. Synthesis, characterisation, electronic spectra and electrochemical investigation of ferrocenyl-terminated dendrimers"

Review articles

59. C.G. Screttas and B.R. Steele, *Org. Prep. Proced. Int.*,**1990**, *22*, 269-314. Organometallic carboxamidation. A review."
60. C.G. Screttas and B.R. Steele, *Appl. Organomet. Chem.* **2000**, *14*, 653-659 Mixed main group metal alkyls and alkoxides in synthesis and catalysis"
61. C. Villalonga-Barber, M. Micha-Screttas, B.R. Steele, A. Georgopoulos and C. Demetzos, *Curr. Top. Med. Chem.* **2008**, *8*, 1294-1309. Dendrimers as biopharmaceuticals: Synthesis and properties"
62. K. Gardikis, M. Micha-Screttas, C. Demetzos and B. R. Steele, *Curr. Med. Chem.* **2012**, *19*, 4913-4928. Dendrimers and the development of new complex nanomaterials for biomedical applications"

Book

Perspectives in Organometallic Chemistry", ed. C. G. Screttas and B. R. Steele, Royal Society of Chemistry, Cambridge, **2003**.

Patent

GR:1005435: "New substituted stilbenoid derivatives with neuroprotective activity" M. Micha-Screttas, C. Villalonga Barber, B. R. Steele, M. N. Alexis.