

Daniel S. Daniel

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Education

University of London (Queen Mary College), Ph.D. Physical Organic Chemistry (Michael J. S. Dewar); thesis title: "Studies on the mechanism of the electrolytic reduction of nitrobenzene".

Experience

Carnegie Institute of Technology, Post Doctoral Research Fellow
(Robert B. Carlin); Studies on the mechanism of the Fischer Indole Synthesis.

Eastman Kodak Co., Senior Research Chemist to Research Associate
Ortho Clinical Diagnostics (Johnson and Johnson), Research Fellow

Industrial experience involved the design, synthesis and evaluation of sensitizing dyes, redox and compleximetric dyes for Image Transfer and Clinical chemistry, ionophores, gelatin cross-linking agents and antioxidants, as well as the design and development of colorimetric and potentiometric thin film slides for Clinical Chemistry.

Awards and Honors

- ◆ Session Chairman "International Macrocyclic Symposium" 1983
- ◆ C. E. K. Mees Award for Excellence in Research, 1984.
- ◆ Invited Speaker Gordon Research Conference on Membrane Phenomena 1984
- ◆ Invited Speaker Electrochemical Society Symposium on Biomedical Devices 1986
- ◆ Discussion Leader Gordon Research Conference on Bioanalytical Sensors 1996

Publications

- ◆ Excellence in Research Award,
Johnson and Johnson 1997

- ◆ 23 US Patents (List iclosed)
- ◆ Several publications in *J. Heterocyclic Chemistry* and *Clinical Chemistry*
- ◆ Chapter on “ The Chemistry of Tetrazolium Salts” in “The Chemistry of Leuco Dyes”, Muthyala, R., Ed. Plenum

◆ U.S. Patents granted

- ◆
- ◆ **3,567,438** Organic Photoconductors Sensitized with Pyrylium Cyanine Dyes
3/1/1971
- ◆
- ◆ **3,567,439** Borinium Dyes as Sensitizers for Organic Photoconductors
3/2/1971
- ◆
- ◆ **3,579,346** Silver Halide Emulsions with Dyes Containing Pyrylium Nucleus
Joined to a Pyrazole Nucleus

5/18/1971
- ◆
- ◆ **3,639,127** Silver Halide Emulsions Containing a Dye Derived from 4,6-Diaryl

Picolinium Salts as Desensitizers
2/1/1972
- ◆
- ◆ **3,745,160** Novel Borinium Cyanine Dyes
7/10/1973
- ◆
- ◆ **4,214,968** Ion-Selective Electrode

7/29/1980
- ◆
- ◆ **4,367,279** Silver Halide Complexing Agents of Sulfones, Nitriles, and Onium Salts

1/4/1983
- ◆

- ◆ **4,476,007** Hemispherands and Sodium-selective Electrodes
- ◆ Containing Same 10/9/1984
- ◆
- ◆ **4,504,368** Alkali Metal Ion-Selective Compositions and Elements and
- ◆ A Method for Using Same 3/12/1985
- ◆
- ◆ **4,505,800** Sodium-Selective Compositions and Electrodes
- ◆ Containing Same 3/19/1985
- ◆
- ◆ **4,608,149** Potassium Ion-Selective Compositions and Electrode
- ◆ Containing Same Containing Same 8/26/1986
- ◆
- ◆ **4,670,385** Compositions and Elements
- ◆ Containing Triarylmethane
- ◆ Leuco Dyes and Methods Using Same 6/2/1987
- ◆
- ◆ **4,853,090** Lithium Ion-Selective Compositions, Electrodes and a
- ◆ Method of Use 8/12/1989
- ◆
- ◆ **4,933,070** Hemispherands in Ion-Selective Compositions 6/12/1990
- ◆
- ◆ **5,132,001** Hemispherand Ionophores Having Increased Lipophilicity 7/21/1992
- ◆
- ◆ **5,294,540** Ethanol Analytical Element 3/15/1994
- ◆
- ◆ **5,320,946** Method and Element for Assay of Catechol and Catechol
- ◆ Generating Substances 6/14/1994
- ◆
- ◆ **5,506,116** Method and Element for Assay of Catechol and Catechol
- ◆ Generating Substances 4/9/1996
- ◆

- ♦ **5,516,645** Immunoassay Analytical Elements Containing Vanadium IV (V⁴⁺) Ions 5/14/1996
- ♦ **5,696,193** Immunoassay Elements Comprising Polymers Containing Vanadium IV(V⁴⁺) Ions
- 12/9/1997
- ♦
- ♦ **6,432,296** Polymeric compositions for ion-selective electrodes 8/13/2002
- ♦
- ♦ **6,833,362** Method and composition for the accelerated in vivo Removal of ethanol 12/21/2004
- ♦ **7,323,452** Method for the Accelerated in vivo Removal of Ethanol 1/29/2008

Areas of Expertise

- Dyes
- Organic Synthesis
- Clinical diagnostics
- Ion selective Electrodes
- Ionophores
- Photographic Chemistry
- The chemistry of gelatin