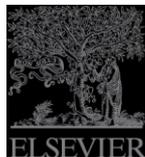




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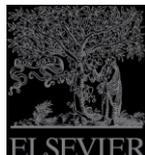
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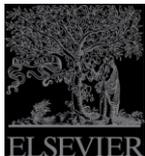
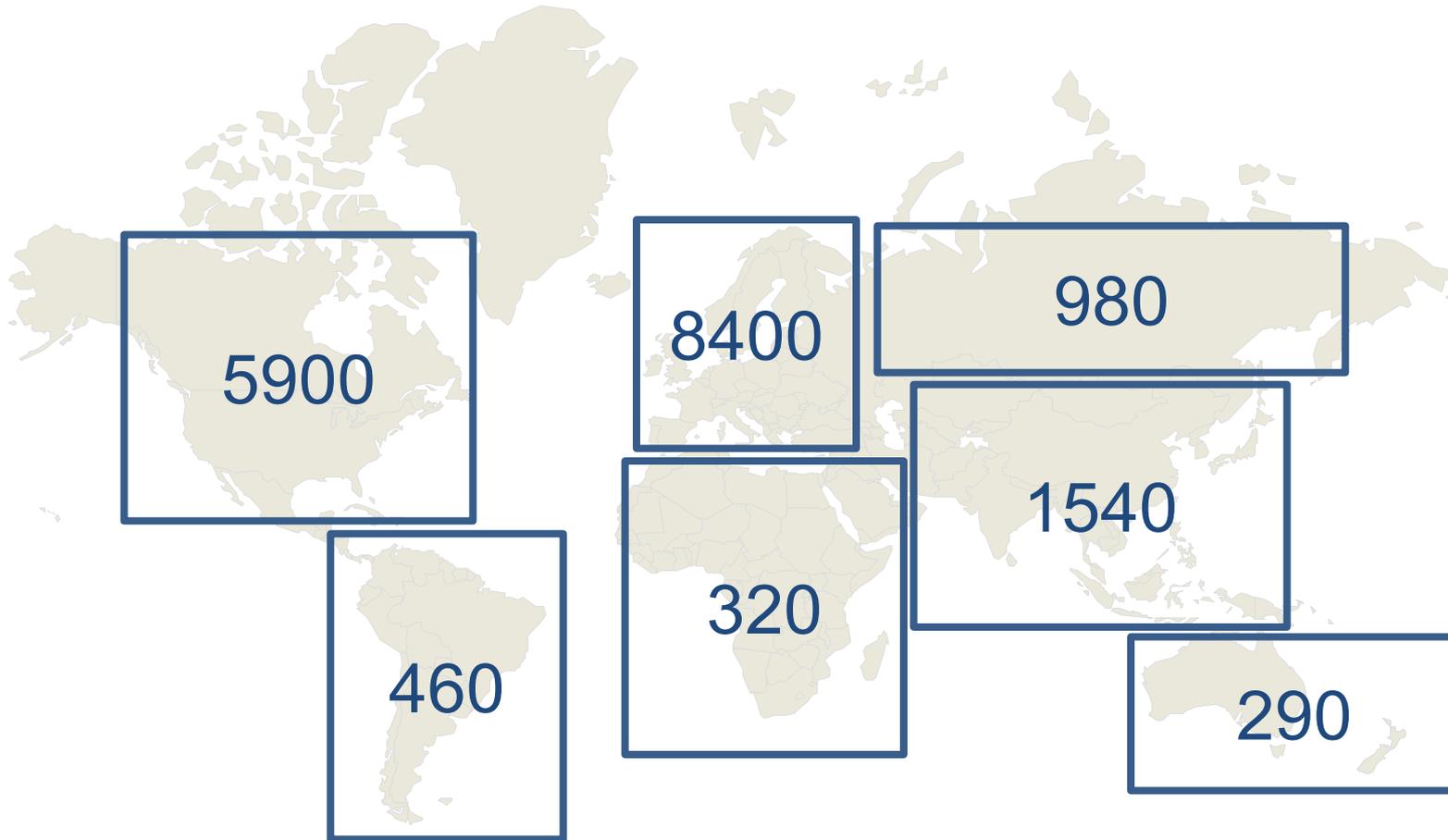
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Bibliographic data | Description | Claims | Mosaics | Original document | INPADOC legal status

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**Publication date:** 2000-04-13  
**Inventor(s):** AUERSWALD PHILIP [US]; KAUFFMAN STUART A [US]; LOBO JOSE [US]; SHELL KARL [US] +  
**Applicant(s):** BIOS GROUP LP [US]; AUERSWALD PHILIP [US]; KAUFFMAN STUART A [US]; LOBO JOSE [US]; SHELL KARL [US] +  
**Classification:**  
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 - European: **G06Q10/00C**  
**Application number:** WO1999US22911 19991001  
**Priority number(s):** US19980103128P 19981002

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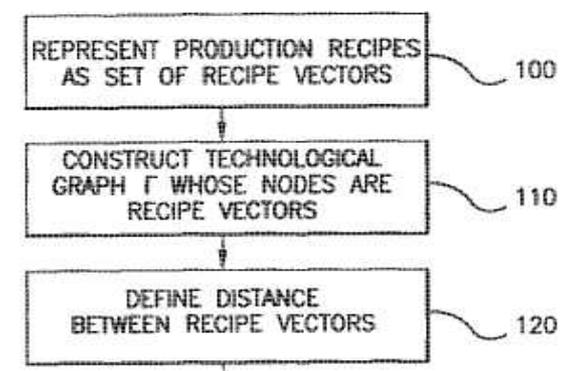
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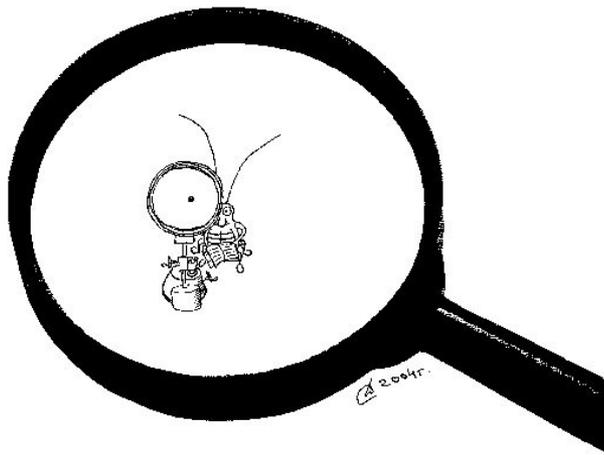
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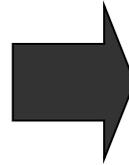
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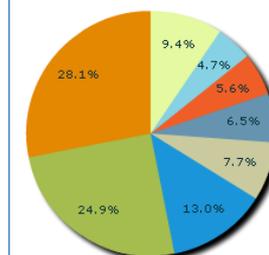
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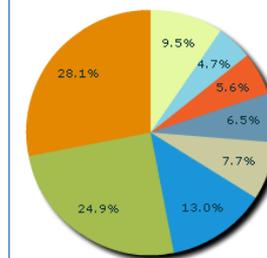
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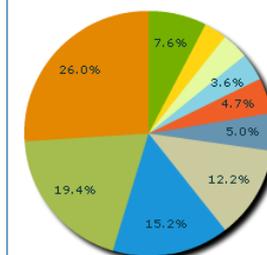
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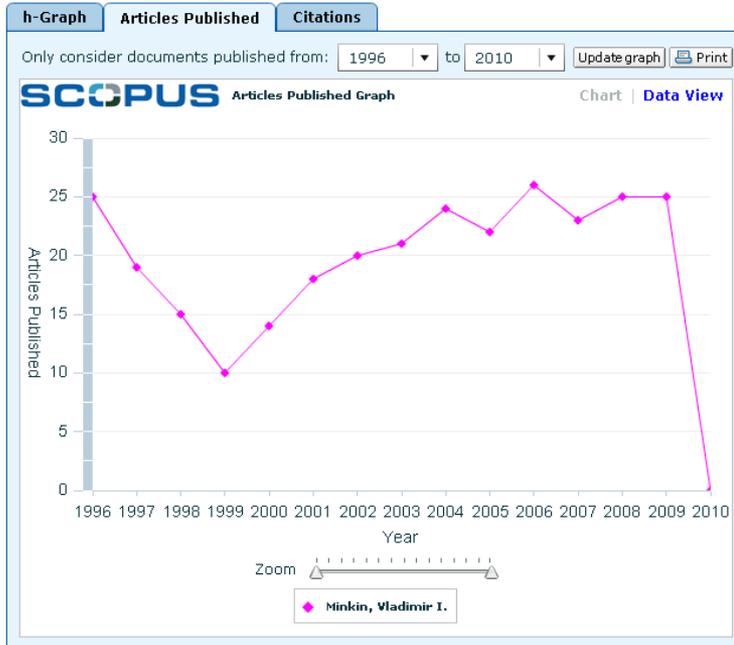
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United States Patent

7,005,519

Chen, et al.

February 28, 2006

**Tetraazaporphyrin compounds**

**Abstract**

This invention relates to a method of preparing a compound of formula (I): ##STR00001## The method includes reacting one or more compounds of formula (II): ##STR00002## in the presence of a base and a halogenating agent. In formulas (I) and (II) above, each A, independently, is aryl or heteroaryl; each n, independently, is 0-3; and each R.sub.1, independently, is C.sub.1-C.sub.10 alkyl, C.sub.3-C.sub.20 cycloalkyl, C.sub.3-C.sub.20 heterocycloalkyl, aryl, heteroaryl, halo, cyano, nitro, OR.sub.a, NR.sub.aR.sub.b, SiR.sub.aR.sub.bR.sub.c, COOR.sub.a, OC(O)R.sub.a, C(O)NR.sub.aR.sub.b, N(R.sub.a)-C(O)R.sub.b, or SO.sub.3R.sub.a; wherein each of R.sub.a, R.sub.b, and R.sub.c, independently, is H, C.sub.1-C.sub.10 alkyl, C.sub.3-C.sub.20 cycloalkyl, C.sub.3-C.sub.20 heterocycloalkyl, aryl, or heteroaryl; thereby producing the compound of formula (I) in a one-pot reaction. This invention also relates to the compounds prepared by the method described above.

Inventors: **Chen; Chin-Ti** (Taipei, TW), **Yeh; Hsiu-Chih** (Taipei, TW)  
Assignee: **Academia Sinica** (Taipei, TW)  
Appl. No.: **10/922,138**  
Filed: **August 18, 2004**

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**Current International Class:** C07B 47/00 (20060101); A61B 10/00 (20060101); A61B 5/055 (20060101); A61K 31/555 (20060101); C07F 5/00 (20060101)

**Field of Search:** 424/9.362,9.61 540/145 534/15 514/185,410

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<a href="#">4814256</a>	March 1989	Aldag et al.
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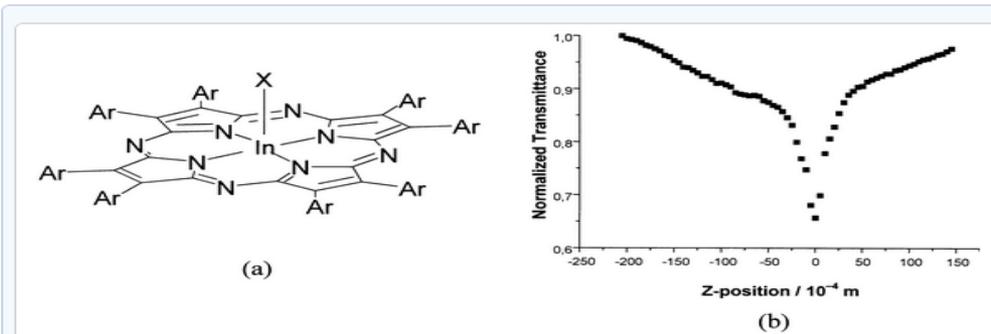
## Synthesis and Characterization of (Octaaryl tetraazaporphyrinato)indium(III) Complexes for Optical Limiting

Sergej Vagin,<sup>1</sup> Markus Barthel, Danilo Dini, and Michael Hanack\*  
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*Inorg. Chem.*, **2003**, *42* (8), pp 2683-2694  
DOI: 10.1021/ic0205738  
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Abstract



The preparation of (octaaryl tetraazaporphyrinato)indium(III) chlorides [aryl = phenyl (**5a**), *p*-*tert*-butylphenyl (**6a**), *p*-(trifluoromethyl)phenyl (**7a**), *m*-(trifluoromethyl)phenyl (**8a**)] and their reactions with aryl Grignard reagents XMgBr to give **5b–8b** [X = *p*-(trifluoromethyl)phenyl] and **5c** (R = 3,5-difluorophenyl) are described. The characterization of all compounds by UV-vis, FT-IR, and <sup>1</sup>H and <sup>13</sup>C NMR spectroscopy was performed. The hypsochromic shift of all bands in the absorption spectra of complexes **5a–8a** is observed in the sequence **6a** < **5a** < **7a** ≈ **8a**. This is associated with the increasing electron-withdrawing character of the aryl substituents in the periphery of the tetraazaporphyrin macrocycle. Compounds **8a,b** are very good soluble in organic solvents with **8a** exhibiting the higher photochemical stability among the various synthesized species. The optical limiting (OL) properties of the complexes have been studied and correlated with the structure of the

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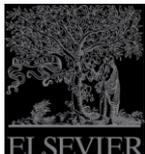
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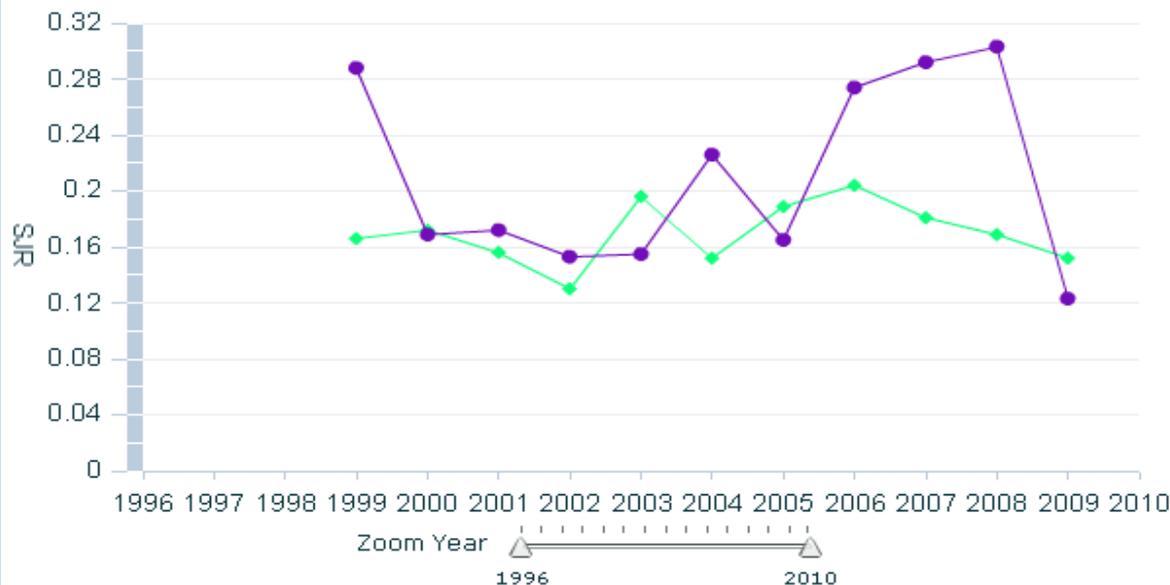
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