

ANDREAS DANOPOULOS



PROFESSOR

LABORATORY OF INORGANIC CHEMISTRY, DEPARTMENT OF CHEMISTRY,
NATIONAL AND KAPODISTRIAN UNIVERSITY OF ATHENS, GREECE

Email: adanop@chem.uoa.gr

Tel.: +30 210 727 4434

Web: andreasdanopoulos.gr

EDUCATION

1981 B.Sc. in Chemistry, NKUA

1986 Ph.D. in Chemistry; Department of Chemistry, NKUA. Title: "Oxidation of Olefins with Supported Pd Complexes"

RESEARCH INTERESTS

Areas of interest and specialization are in synthetic inorganic and organometallic chemistry more recently with emphasis on 3d metals.

Building elements and common aspects in these areas include:

- mixed donor multidentate ligands
- diverse types of N-heterocyclic carbene (NHC) donors
- complexes with pincer ligands (that may comprise NHC donors)
- small multinuclear homo- and hetero-metallic complexes
- structural, physical, magnetic properties, small molecule reactivity and homogeneous catalysis

ACADEMIC POSITIONS HELD

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|------------------------|---|
| 6/2018 - now | Professor of Inorganic Chemistry, NKUA, Greece |
| 10/2010 -
6/2015 | Research Associated with CNRS and Fellow of the Institute of Advanced Studies (USIAS), Université de Strasbourg, France |
| 7/2003-6/2010 | Reader, School of Chemistry, University of Southampton, UK |
| 5/1998-6/2003 | Lecturer, School of Chemistry, University of Southampton, UK |
| 12/1996-4/1998 | Research Fellow, Inorganic Chemistry Laboratory, University of Oxford, UK (with M. L. H. Green) |
| 1988-90 and
1992-96 | Research Fellow, Imperial College UK (with G. Wilkinson, Nobel laureate), |
| 1987 | Postdoctoral Research Fellow, Cardiff University (with P. G. Edwards) |

TEACHING

UNDERGRADUATE COURSES

Inorganic Chemistry III, Department of Chemistry, NKUA, Greece.

Laboratory of General and Inorganic Chemistry, Department of Chemistry, NKUA, Greece.

Organometallic Chemistry, NKUA, Greece

Industrial Inorganic Chemistry, NKUA, Greece

Inorganic Chemistry (Reaction Mechanisms, Organometallic Chemistry), University of Southampton, UK

Advanced Organometallic Chemistry and Catalysis, University of Southampton, UK

Environmental Chemistry, University of Southampton, UK

POSTGRADUATE COURSES

Inorganic Synthesis and Analysis, NKUA, Greece.

Industrial Inorganic Chemistry and Enterpreunership, NKUA, Greece

Advanced Organometallic Chemistry and Catalysis, University of Southampton, UK

AWARDS

- Gutenberg Chair of Excellence 2010-11, Université de Strasbourg
- USIAS Fellow (Institute for Advanced Study), Université de Strasbourg, 2013-14
- Fellow of the European Academy of Sciences (EURASC, Brussels) since 2014

REFEREE / EDITOR / EDITORIAL BOARD IN INTERNATIONAL JOURNALS

Journals: Organometallics, Inorganic Chemistry, J. Am. Chem. Soc., Angewandte Chemie, Dalton Transactions, Chemical Communications, Journal of Otrganometallic Chemistry etc.

Grants: EPSRC (UK), ANR (F), Research Council of Hong Kong, PRF-ACS, Research Council Norway etc.

ADDITIONAL INFORMATION

- Publications in referred Journals and special volumes: **151**
- Presentations in Conferences: **>80**
- Number of Heterocitations: ca. **6800**, h index: **43**
- PhD Thesis supervision: **14**

SELECTED RECENT PAPERS

1. N - Heterocyclic Carbene Complexes of Copper, Nickel, and Cobalt DANOPOULOS, AA; SIMLER, T; BRAUNSTEIN, P; *Chem. Rev.* **2019**, *119*, 3730–3961; DOI: 10.1021/acs.chemrev.8b00505.
2. Iron and Cobalt Metallotropism in Remote-Substituted NHC Ligands: Metalation to Abnormal NHC Complexes or NHC Ring Opening, DANOPOULOS, AA; MASSARD, A; FRISON, G; BRAUNSTEIN, P *Angew. Chem. Int. Ed.* **2018**, *57*, 14550-14554. DOI: 10.1002/anie.201808008.
3. Linear Cu^{1/2}Pd⁰, Cu¹Pd⁰₂, and Ag^{1/2}Pd⁰ Metal Chains Supported by Rigid N,N'-Diphosphanyl N-Heterocyclic Carbene Ligands and Metallophilic Interactions. AI, P; MONAKHOV, KY; VAN LEUSEN, J; KÇGERLER, P; GOURLAOUEN, C. TROMP, M; WELTER, R; DANOPOULOS, AA; BRAUNSTEIN, P, *Chem. Eur. J.* **2018**, *24*, 8787 – 8796. DOI: 10.1002/chem.201801170
4. Chromium(II) Pincer Complexes with Dearomatized PNP and PNC Ligands: A Comparative Study of their Catalytic Ethylene Oligomerization Activity. SIMLER, T; DANOPOULOS, AA; BRAUNSTEIN, P ; *Organometallics*, **2016**, *35*, 4044-4049. DOI: 10.1021/acs.organomet.6b00685
5. Structural and Reactivity Studies of "Pincer" Pyridine Dicarbene Complexes of Fe-0: Experimental and Computational Comparison of the Phosphine and NHC Donors. DANOPOULOS, AA; PUGH, D; SMITH, H; et al. *Chem. Eur. J.* **2009**, *15*, 5491-5502. DOI: 10.1002/chem.200900027.

6. Potassium and Lithium Complexes with Monodeprotonated, Dearomatized PNP and PNCNHC Pincer-Type Ligands. SIMLER, T; KARMAZIN, L; BAILLY, C; DANOPOULOS, AA; BRAUNSTEIN, P, *Organometallics*, **2016**, *35*, 903–912, DOI: 10.1021/acs.organomet.6b00048
7. N-Heterocyclic carbene-phosphino-picolines as precursors of anionic 'pincer' ligands with dearomatised pyridine backbones; transmetallation from potassium to chromium. SIMLER, T; DANOPOULOS, AA; BRAUNSTEIN, P *Chem. Commun.* **2015**, *51*, 10699-10702, DOI: 10.1039/C5CC02920A
8. Molecular N₂ complexes of iron stabilised by N-heterocyclic 'pincer' dicarbene ligands. DANOPOULOS, AA; WRIGHT, JA; MOTHERWELL, WB, *Chem. Commun.*, **2005**, 784-786. DOI: 10.1039/b415562a