Kosmas Prassides

Professor, Tohoku University

Principal Investigator, WPI-AIMR, Tohoku University

Independent Collaborating Principal Investigator of Isobe Degenerate π-Integration Project in the framework of ERATO International, JST

Address (affiliation):

Advanced Institute for Materials Research (WPI-AIMR)

Tohoku University

Aoba-ku, Sendai 980-8578, Japan

Tel・Fax: +81-22-217-5994

Email: k.prassides@wpi-aimr.tohoku.ac.jp

URL: http://www.wpi-aimr.tohoku.ac.jp/en/research/researcher/prassides_k.html

Education

1980 B.A. 1st Class Honours in Chemistry (Oxford University, UK)

1984 M.A., D.Phil. in Chemistry (Oxford University, UK)

Academic Experience

1983-1985: Drapers' Research Fellow, Oxford University, UK

1986-1989: Researcher, Institute of Electronic Structure & Lasers, Research Center of Crete, Greece

1987-1989: Assistant Professor of Inorganic Chemistry, Department of Chemistry, University of Crete, Greece

1989-1993: Lecturer in Chemistry, Department of Chemistry, University of Sussex, UK

1993-1997: Reader in Chemistry, Department of Chemistry, University of Sussex, UK

1998-2004: Professor of Solid State Chemistry, Department of Chemistry, University of Sussex, UK

2000-2002: Director of the Institute of Materials Science, National Centre for Scientific Research "Demokritos", Athens, Greece

2005-2014: Professor of Materials Chemistry, Department of Chemistry, Durham University, UK

2013-Present: Principal Investigator, Advanced Institute for Materials Research (AIMR), Tohoku University

2013-Present: Independent Collaborating Principal Investigator of Isobe Degenerate π-Integration Project in the framework of ERATO International, JST

2014-Present: Professor, Tohoku University

Awards and Honors

1997-1998: Leverhulme Trust Research Fellowship

2004: Winner of the triennial Daiwa Adrian Prize by the Daiwa Anglo-Japanese Foundation in recognition of *significant scientific collaboration between British and Japanese research teams in Materials Science*

2009-2010: Leverhulme Trust Senior Research Fellowship, The Royal Society (UK)

2010: Tilden Prize, The Royal Society of Chemistry (UK) awarded for *seminal research contributions to mixed valency chemistry, to the understanding of electronic phenomena in solids and to condensed matter fullerene science*

2014-2019: Wolfson Research Merit Award, The Royal Society (UK)

Selected Publications

1. R. H. Zadik, Y. Takabayashi, G. Klupp, R. H. Colman, A. Y. Ganin, A. Potočnik, P. Jeglič, D. Arčon, P. Matus, K. Kamarás, Y. Kasahara, Y. Iwasa, A. N. Fitch, Y. Ohishi, G. Garbarino, K. Kato, M. J. Rosseinsky, and K. Prassides, 'Optimized unconventional superconductivity in a molecular Jahn-Teller metal', *Science Advances*, **2015**, *1*, e1500059/1-9.

2. H. Tokoro, M. Yoshikiyo, K. Imoto, A. Namai, K. Nakagawa, N. Ozaki, F. Hakoe, T. Nasu, K. Tanaka, K. Chiba, R. Makiura, K. Prassides, and S. Ohkoshi, 'External stimulation-controllable heat-storage ceramics', *Nature Commun*. **2015**, *6*, 7037/1-8.

3. M. Izumi, L. Zheng, Y. Sakai, H. Goto, M. Sakata, Y. Nakamoto, H. L. T. Nguyen, T. Kagayama, K. Shimizu, S. Araki, T. C. Kobayashi, T. Kambe, D. Gu, J. Guo, J. Liu, Y. Li, L. Sun, K. Prassides, and Y. Kubozono, 'Emergence of double-dome superconductivity in ammoniated metal-doped FeSe', *Scientific Reports* **2015**, *5*, 9477/1-7.

4. G. Klupp, P. Matus, K. Kamarás, A. Y. Ganin, A. McLennan, M. J. Rosseinsky, Y. Takabayashi, M. T. McDonald, and K. Prassides, 'Dynamic Jahn-Teller effect in the parent insulating state of the molecular superconductor Cs_3C_{60}', *Nature Commun*. **2012**, *3*, 912/1-6.

5. A. Y. Ganin, Y. Takabayashi, P. Jeglič, D. Arčon, A. Potočnik, P. J. Baker, Y. Ohishi, M. T. McDonald, M. D. Tzirakis, A. McLennan, G. R. Darling, M. Takata, M. J. Rosseinsky, and K. Prassides, 'Polymorphism control of superconductivity and magnetism in Cs_3C_{60} close to the Mott transition', *Nature* **2010**, *466*, 221-225.

6. Y. Takabayashi, A. Y. Ganin, P. Jeglič, D. Arčon, T. Takano, Y. Iwasa, Y. Ohishi, M. Takata, N. Takeshita, K. Prassides, and M. J. Rosseinsky, 'The disorder-free non-BCS superconductor Cs_3C_{60} emerges from an antiferromagnetic insulator parent state', *Science* **2009**, *323*, 1585-1590