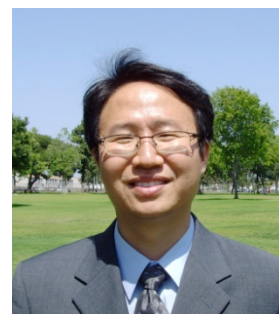


# HONG Soon Hyeok

**Nanyang Assistant Professor**  
**National Research Foundation Research Fellow**  
**Division of Chemistry and Biological Chemistry**  
**SPMS-CBC-06-21**  
**21 Nanyang Link**  
**E-mail: [hongsh@ntu.edu.sg](mailto:hongsh@ntu.edu.sg)**  
**Tel: (65) 6513-2747 Fax: (65) 6791-1961**



## EDUCATION

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**California Institute of Technology**, Pasadena, California 2002–2007  
Ph.D. in Chemistry (March 2007)  
Thesis: *Improvement of Olefin Metathesis Efficiency through Understanding Catalyst Stability*  
Advisor: Professor Robert H. Grubbs

**Seoul National University**, Seoul, Korea 1997–1999  
M.S. in Chemistry (February 1999)  
Thesis: *Transition Metal Mediated Cycloaddition Reactions and Syntheses of Tetrakis(tricarbonylorganomanganese) Compounds*  
Advisor: Professor Young Keun Chung

**Seoul National University**, Seoul, Korea 1992–1996  
B.S. in Chemistry (September 1996)  
*Summa Cum Laude*

\*Mandatory military service, Full-time instructor at the Korea Air Force Academy 1999–2002

## PROFESSIONAL EXPERIENCE

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**Nanyang Assistant Professor, National Research Foundation Fellow** 2008–Present  
Division of Chemistry and Biological Chemistry  
Nanyang Technological University, Singapore

**Research Scientist** 2007–2008  
*Materia, Inc., Pasadena, California*

**Postdoctoral Scholar with Professor J. Fraser Stoddart** 2007  
*University of California, Los Angeles, California*

**Full-time Instructor** 1999–2002  
*Korea Air Force Academy, Chungwon, Korea*

## AWARDS AND HONORS

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National Research Foundation Research Fellow 2008–2011  
Kwanjeong Educational Foundation Fellow 2004–2007  
Kwanjeong Educational Foundation Fellow 2003–2004  
Rotary Foundation Ambassador Scholar 2002–2003  
*Summa Cum Laude*, Ranked Top in the Department of Chemistry, Seoul National University 1996  
Full Scholarship for Outstanding Student, Seoul National University 1996  
Full Scholarship for Outstanding Student, Seoul National University 1995  
Merit-based Scholarship, Seoul National University 1993–1994

**MILITARY SERVICE**

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**Republic of Korea Air Force***Department of Chemistry, Korea Air Force Academy, Chungwon, Korea*

- First Lieutenant, Full-time instructor in chemistry courses 2000–2002
- Second Lieutenant, Instructor in chemistry courses 1999–2000

**PUBLICATIONS**

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(13) Ghosh, S. C.; Muthaiah, S.; Zhang, Y.; Xu, X.; Hong, S. H. "Direct Amide Synthesis from Alcohols and Amines by Phosphine-Free Ruthenium Catalyst." *Adv. Synth. Catal.* **2009**, *351*, 2643–2649.

(12) Schrodi, Y.; Ung, T.; Vagas, A.; Mkrtumyan, G.; Lee, C. W.; Champagne, T.; Pederson, R. L.; Hong, S. H. "Ruthenium Olefin Metathesis Catalysts for the Ethenolysis of Renewable Feedstocks." *CLEAN* **2008**, *36*(8), 669–673.

(11) Hong, S. H.; Wenzel, A. G.; Salguero, T. T.; Day, M. W.; Grubbs, R. H. "Decomposition of Ruthenium Olefin Metathesis Catalysts." *J. Am. Chem. Soc.* **2007**, *129*, 7961–7968.

(10) Hong, S. H.; Chlenov, A.; Day, M. W.; Grubbs, R. H. "Double C–H Activation of an N-Heterocyclic Carbene Ligand in a Ruthenium Olefin Metathesis Catalyst." *Angew. Chem. Int. Ed.* **2007**, *46*, 5148–5151.

(9) Hong, S. H.; Grubbs, R. H. "Efficient Removal of Ruthenium Byproducts from Olefin Metathesis Products by Simple Aqueous Extraction." *Org. Lett.* **2007**, *9*, 1955–1957.

(8) Hong, S. H.; Grubbs, R. H. "Highly Active Water-Soluble Olefin Metathesis Catalyst." *J. Am. Chem. Soc.* **2006**, *128*, 3508–3509, Featured in *Chemical & Engineering News* **2006**, March 6, 18 and **2007**, February 12, 46.

(7) Hong, S. H.; Sanders, D. P.; Lee, C. W.; Grubbs, R. H. "Prevention of Undesirable Isomerization During Olefin Metathesis." *J. Am. Chem. Soc.* **2005**, *127*, 17160–17161, Featured in *Nature* **2006**, *439*, 4–5, and *Chemical Week* **2006**, January 18.

(6) Hong, S. H.; Day, M. W.; Grubbs, R. H. "Decomposition of A Key Intermediate in Ruthenium Catalyzed Olefin Metathesis Reactions." *J. Am. Chem. Soc.* **2004**, *126*, 7414–7415, Featured in *Nachrichten aus der Chemie* **2004**, *52*, 892.

(5) Hong, S. H.; Kim, J. W.; Choi, D. S.; Chung, Y. K.; Lee, S. G. "Construction of tetracyclic ring systems by  $\text{Co}_2(\text{CO})_8$ -catalyzed tandem [2+2+1]/[2+2+2] cycloaddition reaction of diynes: a simple one-pot reaction." *Chem. Comm.* **1999**, 2099–2100.

(4) Han, S. W.; Kim, C. H.; Hong, S. H.; Chung, Y. K.; Kim, K. "Azobenzene-Incorporated Alkanethiol Monolayer Film on Au(111): Reflection-Absorption Infrared Spectroscopy and Atomic Force Microscopy Study." *Langmuir* **1999**, *15*, 1579–1583.

(3) Choi, D. S.; Hong, S. H.; Lee, S.; Chung, Y. K. "Hydrogenation of (1-phenylthiophene) $\text{Mn}(\text{CO})_3$  (thiophene = 3-methylthiophene and 3,4-dimethylthiophene) complexes: formation of tetrakis(tricarbonylphenyl-thiomanganese)." *J. Organomet. Chem.* **1999**, *579*, 385–390.

(2) Hong, S. H.; Chung, Y. K. "Synthesis of [2,3]-Fused Bicyclic Cyclopentadiene Derivatives by the Cycloaddition Reaction of Diyne with Methylmanganese Carbonyl Complex." *Tetrahedron Lett.* **1998**, *39*, 4843–4846.

(1) Lee, J. E.; Hong, S. H.; Chung, Y. K. "Synthesis of Cyclopentanoids via Enyne Cycloaddition Reaction Using Methylmanganese Carbonyl Complex." *Tetrahedron Lett.* **1997**, *38*, 1781–1784.

## **PATENTS**

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(1) Lee, C. W.; Hong, S. H.; Sanders, D. P.; Grubbs, R. H.; Pederson, R. L. "Impurity Reduction in Olefin Metathesis Reactions" U.S. Patent No 2005/0203324A1. September 15, 2005.

## **PROFESSIONAL SOCIETIES**

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American Chemical Society (2003 – Present))

Korean Chemical Society (1997 – 1999)