

**Young Bae**

Sales Director, North America at Dow Chemical  
Semiconductors

<http://www.directoryinventor.com/profile/view/7WKn3TrN>

**Experience**

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**Sales Director, North America****Dow Electronic Materials**

10,001+ employees; Public Company; Chemicals  
July 2012 - Present

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**Senior Account Manager****The Dow Chemical Company**

Chemicals  
July 2011 - July 2012

Manage CMP and lithographic materials sales and marketing in Logic and Memory segments

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**R&D Manager****The Dow Chemical Company**

Chemicals  
August 2008 - July 2011

Managed Advanced Patterning Technology group and developed lithographic materials and processes for advanced semiconductor technology nodes

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**Senior Scientist****Rohm and Haas Company**

Chemicals  
April 2001 - August 2008

Led a product development team for lithographic materials such as photoresists and antireflective coatings Managed a materials group to develop novel imaging materials via synthesis, formulation, and photolithography. Developed novel monomers & polymers for photolithographic applications

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**Postdoctoral Fellow****Cornell University**

10,001+ employees; Educational Institution; Higher Education  
March 1999 - April 2001

Prof. Chris Ober's Group at Dept. of Materials Science & Engineering Reworkable underfills for flip chip assembly in electronic packaging Fluorinated monomers/polymers and block copolymers for

157nm lithography

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## Visiting Scientist

Universit Pierre et Marie Curie, Paris, France

Research

March 1997 - April 1997

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## Education

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### University of Massachusetts, Lowell

Polymer Science & Plastics Engineering

1996 - 1999

Activities and Societies: President, Korean Graduate Student Association at UML

Prof. Rudolf Faust's Group at Department of Chemistry Macromolecular engineering using living cationic/anionic polymerization Nonlinear block copolymer synthesis Chain-end functionalized polymers

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### University of Massachusetts, Lowell

Chemistry

1994 - 1996

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### Kyungpook National University

Polymer Science & Engineering

1986 - 1993

Activities and Societies: Military Service at Korean Army (1988 - 1991)

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## Patents (16)

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### Photolithographic methods (5 worldwide citation)

Young Cheol Bae, Rosemary Bell, Jong Keun Park, Seung Hyun Lee

April 15, 2014: 08697338

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### Polymers, photoresist compositions and methods of forming photolithographic patterns

Young Cheol BAE, Matthew M Meyer, Jibin Sun, Seung Hyun Lee, Jong Keun Park

November 15, 2012: 20120288794-A1

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### Photoresist compositions and methods of forming photolithographic patterns

Young Cheol BAE, Rosemary BELL, Thomas CARDOLACCIA, Seung Hyun LEE, Yi LIU, Jong Keun PARK

August 30, 2012: 20120219901-A1

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### Photoresist compositions and methods of forming photolithographic patterns

Young Cheol BAE, Thomas Cardolaccia, Jibin Sun, Daniel J Arriola, Kevin A Frazier

March 15, 2012: 20120064456-A1

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## **Photoacid generators and photoresists comprising same**

Young Cheol BAE, Thomas CARDOLACCIA, Yi LIU  
November 24, 2011: 20110287361-A1

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## **Methods of forming electronic devices**

Young Cheol BAE, Thomas Cardolaccia, Yi Liu  
May 19, 2011: 20110117490-A1

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## **Compositions and methods for forming electronic devices**

Young Cheol BAE, Thomas Cardolaccia, Yi Liu  
January 13, 2011: 20110008729-A1

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## **Methods of forming electronic devices**

Young Cheol BAE, Thomas Cardolaccia, Yi Liu  
December 30, 2010: 20100330503-A1

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## **Self-aligned spacer multiple patterning methods**

Young Cheol Bae, Thomas Cardolaccia, Yi Liu  
December 30, 2010: 20100330498-A1

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## **Methods of forming electronic devices**

Young Cheol BAE, Thomas Cardolaccia, Yi Liu  
December 30, 2010: 20100330500-A1

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[View all \(16\)](#)