J. Cho

*The author presented on this page has recently published his **10th article** in Angewandte Chemie in the last 10 years:*
"Challenges Facing Lithium Batteries and Electrical Double-Layer Capacitors": N.-S. Choi, Z. Chen, S. A. Freunberger, X. Ji, Y.-K. Sun, K. Amine, G. Yushin, L. F. Nazar, J. Cho, P. G. Bruce, *Angew. Chem.* **2012**, *124*, 10134 – 10166; *Angew. Chem. Int. Ed.* **2012**, *51*, 9994 – 10024.

Jaephil Cho

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Education:	1990 BE in Inorganic Materials Engineering, Kyungpook National University 1995 PhD in ceramic engineering supervised by Prof. Steve W. Martin, Iowa State University 1996 Postdoctoral Research Associate with Prof. Meilin Liu, Georgia Institute of Science & Technology
Awards:	**2007** KCS–Wiley Young Chemist Award; **2010** Ulsan Mayor Award; **2011** PBFC Research Award, Korean Electrochemical Society; Professor of the Year, UNIST
Research:	Metal–air batteries, nanostructured electroactive materials for lithium-ion batteries
Hobbies:	Jogging, wine tasting

My favorite saying is … "Just do it".

When I was eighteen I wanted to be … a detective.

If I could be any age I would … be 25 years old and run a full marathon.

My biggest inspiration is … Star Trek movies.

My favorite time of day is … very early in the morning (before dawn) because I can use my own time for meditation.

I admire … the persons who achieved what they dreamed of.

My science "heroes" are … Charles M. Lieber and Charles R. Darwin.

If I had one year of paid leave I would … spend it in a temple on the top of a mountain.

My favorite painter is … Van Gogh.

My favorite musician is … George Michael.

My favorite book is … The Wine Bible.

If I could be described as an animal it would be … a cat.

Looking back over my career, I … am satisfied with what I have done.

My 5 top papers:

1. "Carbon-Coated Single-Crystal $LiMn_2O_4$ Nanoparticle Clusters as Cathode Material for High-Energy and High-Power Lithium-Ion Batteries": S. Lee, Y. Cho, H.-K. Song, K. T. Lee, J. Cho, *Angew. Chem.* **2012**, *124*, 8878 – 8882; *Angew. Chem. Int. Ed.* **2012**, *51*, 8748 – 8752. (These nanoclusters enable unprecedented fast charging without loss of electrode density.)
2. "Germanium Nanotubes Prepared by Using the Kirkendall Effect as Anodes for High-Rate Lithium Batteries": M.-H. Park, Y. Cho, K. Kim, J. Kim, M. Liu, J. Cho, *Angew. Chem.* **2011**, *123*, 9821 – 9824; *Angew. Chem. Int. Ed.* **2011**, *50*, 9647 – 9650. (Ultralong semiconductor Ge nanotubes can be prepared.)
3. "A Critical Size of Silicon Nano-Anodes for Lithium Rechargeable Batteries": H. Kim, M. Seo, M.-H. Park, J. Cho, *Angew. Chem.* **2010**, *122*, 2192 – 2195; *Angew. Chem. Int. Ed.* **2010**, *49*, 2146 – 2149. (10 nm sized Si nanocrystals showed optimal properties for use in anode materials.)
4. "Three-Dimensional Porous Silicon Particles for Use in High-Performance Lithium Secondary Batteries": H. Kim, B. Han, J. Choo, J. Cho, *Angew. Chem.* **2008**, *120*, 10305 – 10308; *Angew. Chem. Int. Ed.* **2008**, *47*, 10151 – 10154. (A cornerstone work in the preparation of 3D porous Si particles.)
5. "Silicon Nanotube Battery Anodes": M.-H. Park, M. G. Kim, J. Joo, K. Kim, J. Kim, S. Ahn, Y. Cui, J. Cho, *Nano Lett.* **2009**, *9*, 3844 – 3847. (Pure Si nanotubes have a lifetime of over hundreds of cycles in a full cell.)

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