Ji-wook Kim, Hee-kyung Jeong, Kaden M. Southard, Young-wook Jun* & Jinwoo Cheon*
"Magnetic Nanotweezers for Interrogating Biological Processes in Space and Time"
  Special issue ?The Interface of Biology with Nanoscience and Electronics [2]?

Ji-wook Kim, Daeha Seo, Jung-uk Lee, Kaden M. Southard, Yongjun Lim, Daehyun Kim, Zev J. Gartner, Young-wook Jun* & Jinwoo Cheon*
"Single cell mechanogenetics using monovalent magnetoplasmonic nanoparticles"
*Nature Protocols, 12, 1871 (2017) [3].

Zev Gartner and Young-wook Jun
"Principles of Systems Biology, No. 7"
*Cell Systems 3, 3-6 (2016) [4].

Daeha Seo, Kade M. Southard, Jiwook Kim, Justin Farlow, Hyunjung Lee, Jung-Uk Lee, David Litt, Thomas Haas, A. Paul Alivisatos, Zev J. Gartner* & Young-wook Jun*
"A Mechanogenetic Toolkit for Interrogating Cell Signaling in Space and Time"
*Cell, 165, 1507-1518 (2016) [5].

[5] See also
  Video abstract in Cell [6].
  Preview in Developmental Cell [7].
  Research Highlights in Nature Methods [8].
  ASCB Post [9].
  The Scientist [10].

Daeha Seo, Hyunjung Lee, Jung-Uk Lee, Thomas J. Haas, & Young-wook Jun*
"Monovalent plasmonic nanoparticles for biological applications"

[11]

Marc C. Mabray, Prasheel Lillaney, Chia-Hung Sze, Aaron D. Losey, Jeffrey Yang, Sravani Kondapavulur, Derek Liu, Maythem Saeed, Anand Patel, Daniel Cooke, Young-Wook Jun, Ivan El-Sayed, Mark Wilson, and Steven W. Hetts*
"In Vitro Capture of Small Ferrous Particles with a Magnetic Filtration Device Designed for Intravascular Use with Intraarterial Chemotherapy: Proof-of-Concept Study"
*Journal of Vascular and Interventional Radiology 27, 426 (2016) [12].

Cheryl Tajon, Daeha Seo, Jennifer Asmussen, Neil Shah, Young-wook Jun* & Charles S. Craik*
"Sensitive and selective plasmon ruler nanosensors for monitoring the apoptotic drug response in leukemia"
*ACS Nano, 8, 9199 (2014) [13].

Daeha Seo, Justin Farlow, Kade Southard, Young-wook Jun* & Zev J. Gartner*
"Production & targeting of monovalent quantum dots"
*The Journal of Visualized Experiments (JoVE), 92, e52198 (2014) [14].

Cheryl Tajon, Young-wook Jun & Charles S. Craik*
"Single-molecule sensing of caspase activation in live cells via plasmon coupling nanotechnology"

Jennifer Gajan, Elisabeth A. Lasaster, Cheryl Tajon, Juan Ose-Proetp, Young-wook Jun, Barry S.Taylor, Alma Burlingame, Charles S. Craik & Neil P. Shah*
"MEK-dependent negative feedback underlies BCR-ABL mediated oncogene addiction"
*Cancer Discovery, 4, 200 (2014) [16].

Justin Farlow, Daeha Seo, Kyle E. Broaders, Marcus Taylor, Zev J. Gartner* & Young-wook Jun*
"Formation of targeted monovalent quantum dots by steric exclusion"
*Nature Methods, 10, 1203 (2013) [17].

Before UCSF

Young-wook Jun, Hea-Won Chung, Jung-tak Jang & Jinwoo Cheon*
"Multiple twinning drives nanoscale hyper-branching of titanium dioxide nanocrystals"
*Journal of Materials Chemistry 21, 10283 (2011). [LINK] [18]

Sassan Sheikholeslami?, Young-wook Jun?, Prashant Jain? & A. Paul Alivisatos*
"Coupling of optical resonances in an compositionally asymmetric plasmonic nanoparticle dimer?"
*Nano Letters 10, 2655 (2010). [LINK] [19]

Young-wook Jun, Sassan Sheikholeslami, Daniel Hostetter, Cheryl Tajon, Charles Craik & A. Paul Alivisatos*
"Continuous imaging of plasmon rulers in live cells reveals early stage caspase-3 activation at the single molecule level?"

Haimei Zheng, Rachel K. Smith?, Young-wook Jun?, Christian Kisielowski, Ulrich Dahmen & A. Paul Alivisatos*
"Observation of single colloidal platinum nanocrystal growth trajectories?"
*Science 324, 1309 (2009). [LINK] [21]

Jungwon Park, Haimei Zheng, Young-wook Jun & A. Paul Alivisatos*
"Hetero-epitaxial anion exchange yields single-crystalline hollow nanoparticles?"
*Journal of the American Chemical Society, 131, 13943-13945 (2009). [LINK] [22]

Young-wook Jun, Jae-Hyun Lee, Mi-yun Kim & Jinwoo Cheon*
"Chemical design of nanoparticle probes for ultra-sensitive magnetic resonance imaging?"
*Angewandte Chemie International Edition,
(Selected as a frontispiece)

Young-wook Jun, Jung-wook Seo & Jinwoo Cheon*  
Nanoscaling laws of magnetic nanoparticles and their applicabilities in biomedical sciences?  

Jae-Hyun Lee, Yong-Min Huh, Young-wook Jun, Jung-wook Seo, Jung-tak Jang, Ho-taek Song, Sungjun Kim, Jin-Suck Suh & Jinwoo Cheon*  
Artificially engineered magnetic nanoparticles for ultra-sensitive molecular imaging?  

Jung-wook Seo, Young-wook Jun, Seung-won Park, Taeho Moon, Byungwoo Park & Jinwoo Cheon*  
Two-dimensional nanosheet crystals?  

Young-wook Jun, Jin-sil Choi & Jinwoo Cheon*  
Heterostructured magnetic nanoparticles: Their versatility and high performance capabilities?  
Chemical Communications 1203-1214 (2007). [LINK]  

Jong-Il Park, Young-wook Jun, Jin-sil Choi & Jinwoo Cheon*  
Highly crystalline anisotropic supercrystals via magnetic field induced assembly?  
Chemical Communications, 5001-5003 (2007). [LINK]  

Yong-Min Huh, Eun-Suk Lee, Jae-Hyun Lee, Young-wook Jun, Pyung-Hwan Kim, Chae-Ok Yun, Joo-hang Kim, Jin-Suck Suh* & Jinwoo Cheon*  
Hybrid nanoparticles for magnetic resonance imaging of target-specific viral gene delivery?  
Advanced Materials 19, 3109-3112 (2007). (Selected as an inside cover page) [LINK]  

Young-wook Jun, Jung-tak Jang & Jinwoo Cheon*  
Magnetic nanoparticle assisted molecular MR imaging?  

Jinwoo Cheon, Jong-II Park, Jin-sil Choi, Young-wook Jun, Sehun Kim, Min Gyu Kim, Young-Min Kim & Yoon Joong Kim  
Magnetic superlattices and their nanoscale phase transition effects?  

Young-wook Jun, Jin-sil Choi & Jinwoo Cheon*  
Shape control of semiconductor and metal oxide nanocrystals through nonhydrolytic colloidal routes?  
Angewandte Chemie International Edition 45, 3414-3439 (2006). (Selected as a frontispiece) [LINK]  

Maria F. Casula, Young-wook Jun, David J. Zaziski, Anna Corrias & A. Paul Alivisatos*
?The concept of delayed nucleation in nanocrystal growth: The case of iron oxide nanodisks?

Jin-sil Choi, Young-wook Jun, Soo-In Yeon, Hyung Chan Kim, Jeon-Soo Shin* & Jinwoo Cheon*
?Biocompatible heterostructured nanoparticles for multimodal biological detection?

Jae-Hyun Lee, Young-wook Jun, Soo-In Yeon, Jeon-Soo Shin* & Jinwoo Cheon*
?Dual mode nanoparticle probes for high performance magnetic resonance and fluorescence imaging of neuroblastoma?
Angewandte Chemie International Edition 45, 8160-8162 (2006). [LINK] [34]

Young-wook Jun, Jung-tak Jang & Jinwoo Cheon*
?Nanocrystals and their biomedical applications?

Young-wook Jun, Yong-Min Huh, Jin-sil Choi, Jae-Hyun Lee, Ho-Taek Song, Sungjun Kim, Sarah Yoon, Kyung-Sup Kim, Jeon-Soo Shin, Jin-Suck Suh* & Jinwoo Cheon*
?Nanoscale size effect of magnetic nanocrystals and their utilization for cancer diagnosis via magnetic resonance imaging?

Yong-Min Huh, Young-wook Jun, Ho-Taek Song, Sungjun Kim, Jin-sil Choi, Jae-Hyun Lee, Sarah Yoon, Kyung-Sup Kim, Jeon-Soo Shin, Jin-Suck Suh* & Jinwoo Cheon*
?In vivo magnetic resonance detection of cancer by using magnetic nanocrystals?

Ho-Taek Song, Jin-sil Choi, Yong-Min Huh, Sungjun Kim, Young-wook Jun, Jin-Suck Suh* & Jinwoo Cheon*
?Surface modulation of magnetic nanocrystals in the development of highly efficient magnetic resonance probes for intracellular labeling?
Journal of the American Chemical Society 127, 9992-9993 (2005). [LINK] [37]

Young-wook Jun, Jae-Hyun Lee, Jin-sil Choi & Jinwoo Cheon*
?Symmetry-controlled colloidal nanocrystals: Nonhydrolytic chemical synthesis and their shape determining parameters?
Journal of Physical Chemistry B 109, 14795-14806 (2005). (Selected as a cover page) [LINK] [38]

Jung-wook Seo, Young-wook Jun, Seung Jin Ko & Jinwoo Cheon*
?In-situ one-pot synthesis of 1-dimensional transition metal oxide nanocrystals?

Young-wook Jun, Jung-wook Seo, Sang Joon Oh & Jinwoo Cheon*
?Recent advances in the shape control of inorganic nano-building blocks?
Coordination Chemistry Reviews 249, 1766-1775 (2005). [LINK] [40]

Insik In, Young-wook Jun, Yoon-Joon Kim, Myung-Eun Seo & Sang Youl Kim*
?Spontaneous one dimensional arrangement of spherical Au nanoparticles with liquid crystal
Jong-II Park, Min-Gyu Kim, Young-wook Jun, Jae-Sung Lee, Woo-Ram Lee & Jinwoo Cheon*  
Characterization of superparamagnetic core-shell nanoparticles and monitoring their 
anisotropic phase transition to ferromagnetic "solid solution" nanoalloys?  
*Journal of the American Chemical Society 126, 9072-9078 (2004). [LINK] [42]

Insik In, Young-wook Jun & Sang Youl Kim*  
Thiacrownether mediated size-controlled assembly of gold nanoparticles?  
Chemistry Letters 33, 1530-1531 (2004). [LINK] [43]

Young-wook Jun, Maria F. Casula, Jae-Hwan Sim, Sang Youl Kim*, Jinwoo Cheon* & A. Paul Alivisatos*  
Surfactant-assisted elimination of a high energy facet as a means of controlling the shapes of TiO$_2$ nanocrystals?  
*Journal of the American Chemical Society 125, 15981-15985 (2003). [LINK] [44]

Young-wook Jun, Yun-Young Jung & Jinwoo Cheon*  
Architectural control of magnetic semiconductor nanocrystals?  
*Journal of the American Chemical Society 124, 615-619 (2002). [LINK] [45]

Yong-Ho Kim, Young-wook Jun, Byung-Ho Jun, Sang-Min Lee & Jinwoo Cheon*  
Sterically induced shape- and crystalline phase- control of gallium phosphide nanocrystals?  
*Journal of the American Chemical Society 124, 13656-13657 (2002). [LINK] [46]

Sang-Min Lee, Young-wook Jun, Sung-Nam Cho & Jinwoo Cheon*  
Single crystalline star-shaped nanocrystals and their evolution: Programming the geometry of nano-building blocks?  
*Journal of the American Chemical Society 124, 11244-11245 (2002). [LINK] [47]

Jong-II Park, Nam-Jung Kang, Young-wook Jun, Sang Jun Oh, Hyung Chan Ri & Jinwoo Cheon*  
Superlattice and magnetism directed by size and shape of nanocrystals?  
Chemphyschem 3, 543-547 (2002). [LINK] [48]

Young-wook Jun, Sang-Min Lee, Nam-Jun Kang & Jinwoo Cheon*  
Controlled synthesis of multi-armed CdS nanorod architectures using mono-surfactant system?  
*Journal of the American Chemical Society 123, 5150-5151 (2001). [LINK] [49]

Young-wook Jun, Chang-Sik Choi & Jinwoo Cheon*  
Size and shape controlled synthesis of ZnTe Nanocrystals with quantum confinement effect?  
Chemical Communications 101-102 (2001). [LINK] [50]

Hong-Gyu Kang, Young-wook Jun, Jong-II Park, Kyung-Bok Lee & Jinwoo Cheon*  
Synthesis of porous palladium nanoballs and nanowires?  
Chemistry of Materials 12, 3530-3532 (2000). [LINK] [51]

Young-wook Jun, Ja-Eung Koo & Jinwoo Cheon*  
One step synthesis of size tuned zinc selenide quantum dots via a temperature controlled molecular precursor approach?  
Chemical Communications
Book Chapters

Young-wook Jun, Jae-Hyun Lee & Jinwoo Cheon*
Chapter 17. Nanoparticle contrast agents for molecular magnetic resonance imaging?

Young-wook Jun, Jung-tak Jang & Jinwoo Cheon*
Chapter 6. Magnetic resonance nanoparticle probes for cancer imaging?

Young-wook Jun, Jung-tak Jang & Jinwoo Cheon*
Magnetic nanoparticle assisted molecular MR imaging? in Biological Applications of

Young-wook Jun, Seung Jin Ko & Jinwoo Cheon*
Chapter 2. Colloidal inorganic nanocrystal building blocks?
in Nanoparticle Assemblies and Superstructures, Nicholas Kotov Ed. CRC Press LLC. Aug.
(2005).

Jinwoo Cheon, Young-wook Jun & Sang-Min Lee
Chapter 4. Architecture of nanocrystal building blocks?
Corp. (2003).

Contact Us
UCSF Main Site

© 2013 The Regents of the University of California

Source URL: https://junlab.ucsf.edu/publications/publications

Links
[1] https://pubs.acs.org/doi/abs/10.1021/acs.accounts.8b00004
[6] https://www.youtube.com/watch?v=Ue2l_A0IXO1&amp;index=4&amp;list=PL5AB7CDD2D88F792A
201607&amp;spMailingID=51721211&amp;spUserID=MjAwNjkwMTExMjI1S0&amp;spJobID=944209630&amp;spReportId=OTQ0MjA5NjMwS0